1.1	10	23	87	1pter-p36.13	A12M2	P
1.2	9	11	95	1pter-p36.13	CCV	P
1.3	10	23	87	1pter-p36.13	ENO1, PPH	C
1.4	10	23	87	1pter-p36.13	GDH	C
1.5	12	22	87	1pter-p36	ERPL1, HLM2	C
1.6	1	18	95	1pter-p33	HMGCL	P
1.7	12	16	93	1pter-p32	AGRN	P
1.8	3	15	92	1pter-p31.2	GNB1	C
1.9	3	17	94	1pter-p22.1	MTS1, TFS1	C
1.1	8	8	91	1pter-p21	SCP2	P
1.11	8	13	91	1pter-q12	GJA5, CX40	P
1.12	10	27	89	1p36.33-p36.22	CA6	P
1.13	9	12	96	1p36.3	HKR3	C
1.14	10	4	93	1p36.3	MTHFR	P
1.15	10	23	87	1p36.3	RNU1	C
1.16	2	6	94	1p36.3-p34.3	HTR1D	C
1.17	7	4	95	1p36.3-p36.2	NB, NBS	C
1.18	1	1	95	1p36.3-p36.2	PLOD	P
1.19	9	15	96	1p36.3-p36.2	SCNN1D	P
1.2	2	23	92	1p36.3-p36.2	TNFR2	C
1.21	11	18	96	1p36.3-p34.1	C1QA	C
1.22	11	18	96	1p36.3-p34.1	C1QB	C
1.23	11	18	96	1p36.3-p34.1	C1QG	P
1.24	6	2	94	1p36.2	NPPA, PND, ANP	C
1.25	5	9	95	1p36.2	NPPB, BNP	C
1.26	4	10	90	1p36.2-p36.13	PGD	C
1.27	2	19	96	1p36.2-p36.12	PAX7	C
1.28	3	24	88	1p36.2-p36.1	FGR, SRC2	P
1.29	9	22	96	1p36.2-p36.1	GLC3B	P
1.3	1	1	95	1p36.2-p35	CDA	C
1.31	10	7	88	1p36.2-p34	EKV	C
1.32	10	22	92	1p36.2-p34	EPB41, EL1	C
1.33	10	23	87	1p36.2-p34	RD	C
1.34	2	2	96	1p36.2-p34	RH@	C
1.35	1	4	93	1p36.2-p34	RHCE	C
1.36	1	10	89	1p36.2-p34	RHD	C
1.37	10	23	87	1p36.2-p34	SC	C
1.38	1	11	95	1p36.13-p36.12	ID3	C
1.39	7	4	95	1p36.13-p36.11	D1S1733E, DAN	P
1.4	1	1	95	1p36.1	CHC1, RCC1	C
1.41	9	29	96	1p36.1	ECE1	C
1.42	5	9	95	1p36.1	ERK	P
1.43	4	11	97	1p36.1	EXTL	P
1.44	10	12	90	1p36.1	HMG17	C

1.45	6	20	91	1p36.1	HSPG2, PLC	C
1.46	8	21	91	1p36.1	PRKACB	P
1.47	2	15	96	1p36.1	TCEB3	P
1.48	9	13	89	1p36.1	TRN	P
1.49	1	23	96	1p36.1-p35	EPHT3, DRT	P
1.5	1	24	93	1p36.1-p35	LAP18, SMN	P
1.51	4	23	96	1p36.1-p35	MEMO1	P
1.52	10	22	95	1p36.1-p35	MFAP2, MAGP, MAGP1	P
1.53	2	26	95	1p36.1-p35	RAP1GA1	P
1.54	3	28	95	1p36.1-p35	SLC9A1, NHE1, APNH	C
1.55	9	22	95	1p36.1-p34	SJS, SJA	P
1.56	1	1	95	1p36.1-p34.3	GPR3	C
1.57	3	17	94	1p36.1-p34.3	OPRD1	P
1.58	3	26	90	1p36.1-p34	ALPL, HOPS	C
1.59	10	2	89	1p36	BRCD2	P
1.6	1	11	95	1p36	CBFA3, PEBP2A3, AML2	C
1.61	11	5	92	1p36	CD30, D1S166E	P
1.62	11	8	91	1p36	CDC2L1	P
1.63	1	4	93	1p36	CMM, MLM, DNS	P
1.64	8	15	96	1p36	DVL1	C
1.65	2	23	95	1p36	E2F2	P
1.66	4	18	97	1p36	EYA3	P
1.67	1	27	97	1p36	FRAP	P
1.68	9	28	96	1p36	LUZP	L
1.69	9	28	96	1p36	RIZ	P
1.7	9	13	89	1p36	TRE	P
1.71	3	5	95	1p36	TXGP1L, OX40, ACT35	P
1.72	12	3	95	1p36-p35	CMT2A, CMT2	P
1.73	4	30	91	1p36-p35	GALE	C
1.74	3	12	96	1p36-p35	HTR6	P
1.75	6	16	94	1p36-p35	MOM1	L
1.76	1	26	97	1p36-p34.1	SCCD	P
1.77	12	3	91	1p36-p22	SRM, SPS1	C
1.78	2	18	96	1p35.1	GJA4, CX37	C
1.79	8	21	91	1p35	EBVS1	P
1.8	7	10	93	1p35	CRTM	C
1.81	3	21	93	1p35	G1P3, IFI616	C
1.82	4	10	96	1p35	PLA2G2A, PLA2B, PLA2L, MOM1	C
1.83	1	20	97	1p35	PTP4A1	P
1.84	4	7	94	1p35	RPA2	P
1.85	6	3	94	1p35-p34.3	CSF3R, GCSFR	C
1.86	10	9	94	1p35-p34.3	LCK	C
1.87	9	29	96	1p35-p34.3	PTAFR	C
1.88	5	9	95	1p35-p34	GUCA2	P

1.89	11	28	94	1p35-p31.3	SLC2A1, GLUT1	C
1.9	7	10	91	1p34.4-p32.3	COL8A2	P
1.91	9	29	96	1p34.3	MYCL1, LMYC	C
1.92	10	2	91	1p34.1	CTPS	C
1.93	2	24	97	1p34.1	HDAC1, RPD3L1	P
1.94	3	17	94	1p34.1	PAGA	P
1.95	2	1	95	1p34.1-p32	RPS8	P
1.96	10	23	87	1p34	AK2	C
1.97	3	21	93	1p34	COL16A1	C
1.98	6	6	91	1p34	EDN2	C
1.99	7	5	90	1p34	FUCA1	C
1.1	2	6	94	1p34	HUD, PNEM	P
1.101	10	9	94	1p34	INPP5B	P
1.102	11	13	96	1p34	LAPTM5	P
1.103	6	14	91	1p34	MPL	P
1.104	10	23	87	1p34	UROD	C
1.105	10	8	96	1p34	YB1	P
1.106	10	9	94	1p34-p33	GRIK3, GLUR7	P
1.107	1	1	95	1p34-p33	TIE, JTK14, TIE1	P
1.108	9	11	91	1p34-p12	CYP4B1	P
1.109	11	4	91	1p34-p12	DDIT1, GADD45	P
1.11	11	3	94	1p33	MTF1	P
1.111	1	29	96	1p33	SLC6A9, GLYT1	C
1.112	1	29	96	1p33-p32.2	COL9A2, EDM2	C
1.113	9	22	95	1p33-p32	TGFBR3	P
1.114	3	17	94	1p33-p31	FABP3	C
1.115	1	11	93	1p32	BLYM	P
1.116	1	4	93	1p32	C8A	C
1.117	7	10	93	1p32	C8B	C
1.118	9	11	95	1p32	CPT2	C
1.119	8	28	95	1p32	DFNA2	C
1.12	11	13	94	1p32	EPS15	P
1.121	4	24	96	1p32	FKHL12	P
1.122	9	22	95	1p32	PPT, CLN1	C
1.123	3	21	93	1p32	PTPRF, LAR	P
1.124	1	26	93	1p32	RLF	C
1.125	6	21	91	1p32	SIL	C
1.126	8	22	91	1p32	TAL1, TCL5, SCL	C
1.127	10	23	87	1p32	UMPK	C
1.128	8	21	91	1p32-p31	JUN	C
1.129	9	13	89	1p32-p31	RAB3B	P
1.13	8	8	91	1p32-p31	VCAM1	P
1.131	3	21	93	1p32-p22	IPP	P
1.132	1	27	97	1p32-q12	M1S1	P

1.133	7	10	93	1p31.3	JAK1	C
1.134	9	22	95	1p31.3-p31.2	NFIA	P
1.135	6	15	95	1p31.2	PTGER3, EP3	P
1.136	6	16	95	1p31.1	PTGFR	P
1.137	8	21	91	1p31	ACADM, MCAD	P
1.138	5	9	95	1p31	AMPK	P
1.139	6	20	91	1p31	DBT, BCATE2	C
1.14	12	6	95	1p31	IER1, IR20	P
1.141	9	28	96	1p31	LEPR, OBR	P
1.142	10	9	94	1p31	PDE4B, DPDE4	C
1.143	5	22	91	1p31	PGM1	C
1.144	5	2	94	1p31	RPE65	C
1.145	11	28	94	1p31	SLC2A5, GLUT5	P
1.146	1	11	95	1p31-p22	CRYZ	P
1.147	9	22	96	1p31-p22	RABGGTB	P
1.148	11	13	96	1p22.1	DR1	P
1.149	11	2	95	1p22.1-qter	SDH1	P
1.15	12	5	95	1p22	CTB	P
1.151	1	1	96	1p22	GFI1, ZNF163	P
1.152	12	5	95	1p22	GNG5	P
1.153	8	29	91	1p22	D1S155E, UNR	P
1.154	6	9	95	1p22	DPYD, DPD	C
1.155	1	4	93	1p22	UOX	P
1.156	10	7	88	1p22-p21	F3, TFA	C
1.157	12	30	92	1p22-p21	PXMP1, PMP70	P
1.158	9	2	96	1p21	AGL, GDE	C
1.159	10	23	87	1p21	AMY1A	C
1.16	10	31	91	1p21	AMY1B	C
1.161	11	4	91	1p21	AMY1C	C
1.162	9	14	88	1p21	AMY2A	C
1.163	6	4	90	1p21	AMY2B	C
1.164	8	21	92	1p21	CHRNB2	P
1.165	12	20	96	1p21	COL11A1	P
1.166	9	29	96	1p21	GLCLR	C
1.167	11	4	93	1p21-p13.3	CD53, MOX44	C
1.168	1	9	95	1p21-p13.3	KCNA3	C
1.169	3	3	97	1p21-p13	ABCR, STGD1, FFM	C
1.17	5	9	95	1p21-p13	ADORA3	C
1.171	6	22	94	1p21-p13	ARH9, RHOH9	P
1.172	7	5	90	1p21-p13	AMPD1	P
1.173	12	16	93	1p21-p13	AMPD2	P
1.174	4	18	92	1p21-p13	CSF1, MCSF	C
1.175	3	31	97	1p21-p13	RP19	P
1.176	11	22	94	1p21-p13.3	WS2B	P

1.177	9	12	93	1p13.3	GSTM1	C
1.178	9	12	93	1p13.3	GSTM2, GST4	C
1.179	9	12	93	1p13.3	GSTM3, GST5	P
1.18	11	4	93	1p13.3	GSTM4	C
1.181	11	4	93	1p13.3	GSTM5	P
1.182	7	10	93	1p13.3	RAP1A, KREV1	C
1.183	9	12	93	1p13.3-p11	CASQ2	P
1.184	11	20	95	1p13.2	NRAS	C
1.185	7	26	95	1p13.2-p12	SLC16A1, MCT1	P
1.186	11	20	95	1p13.1	CD2	C
1.187	4	30	93	1p13.1	HSD3B1	C
1.188	10	21	92	1p13.1	HSD3B2	C
1.189	11	20	95	1p13.1	NGFB	C
1.19	10	12	90	1p13	CD58, LFA3	C
1.191	5	18	92	1p13	GNAI3	C
1.192	5	18	92	1p13	GNAT2	C
1.193	3	21	93	1p13	LGALS3	P
1.194	10	4	91	1p13	TSHB	C
1.195	1	1	95	1p13-p12	HMGCS2	P
1.196	4	12	92	1p13-p11	ATP1A1	C
1.197	1	11	95	1p13-p11	NOTCH2	P
1.198	9	22	96	1p13-q23	RP18	P
1.199	1	6	97	1p12	FCGR1B	P
1.2	1	9	95	1p12-p11	NHLH2, HEN2	P
1.201	11	12	96	1p11-q11	CMD1A, CDCD1	P
1.202	11	13	94	1p11-qter	EPHX1	P
1.203	8	8	91	1p	GABRD	P
1.204	1	24	93	1p	PCHC	P
1.205	1	2	91	1cen-q12	ADSS	P
1.206	1	21	97	1q	CSE	P
1.207	5	31	94	1q	FMO4, FMO2	P
1.208	11	14	91	1q	HSPA6	P
1.209	11	14	91	1q	HSPA7	P
1.21	3	17	94	1q	PMX, PHOX1	L
1.211	5	9	95	1q	SYT2	L
1.212	11	5	95	1q12-q21	GJA8, CX50	P
1.213	6	3	94	1q12-q21	S100A8, CAGA, CFAG	P
1.214	6	3	94	1q12-q22	S100A9, CAGB, CFAG	P
1.215	9	13	89	1q12-q22	TRNL	P
1.216	9	12	93	1q12-q23	DPT	P
1.217	11	9	95	1q12-q23	MEF2D	P
1.218	11	22	94	1q12-qter	IFI16	P
1.219	2	6	94	1q12-qter	NTRKR3	P
1.22	7	5	90	1q12-qter	TNNI1	P

1.221	1	7	93	1q2	CAE1	C
1.222	10	23	87	1q21	A12M3	P
1.223	10	4	93	1q21	ARNT	C
1.224	9	12	93	1q21	CASQ1	C
1.225	9	2	96	1q21	CTSK	P
1.226	6	3	94	1q21	CTSS	P
1.227	1	6	97	1q21	FCGR1C	P
1.228	11	4	93	1q21	FLG	C
1.229	3	27	89	1q21	GBA	C
1.23	9	13	89	1q21	H1F2	P
1.231	9	13	89	1q21	H3F2	P
1.232	9	13	89	1q21	H4F2	P
1.233	11	4	93	1q21	IL6R	C
1.234	11	4	93	1q21	IVL	C
1.235	9	9	96	1q21	LOR	C
1.236	7	4	95	1q21	MCL1	P
1.237	4	9	96	1q21	MCSP	P
1.238	7	4	95	1q21	MTXN	L
1.239	6	4	89	1q21	MUC1, PUM	C
1.24	9	14	88	1q21	PKLR, PK1	C
1.241	10	21	92	1q21	RBP6, CRABP2	P
1.242	10	21	96	1q21	PRCC, RCCP1	P
1.243	11	17	94	1q21	S100A1	C
1.244	11	17	94	1q21	S100A2, S100L	P
1.245	11	17	94	1q21	S100A3, S100E	P
1.246	11	17	94	1q21	S100A4, CAPL	P
1.247	11	17	94	1q21	S100A5, S100D	P
1.248	11	17	94	1q21	S100A6, CACY	C
1.249	2	9	95	1q21	S100A7	C
1.25	7	11	94	1q21	S100A10, CAL1L	C
1.251	6	16	95	1q21	SHC1	C
1.252	7	5	90	1q21	SPTA1	C
1.253	7	4	95	1q21	THBS3, TSP3	L
1.254	7	4	95	1q21	YL1	P
1.255	12	2	96	1q21-q22	EPLG1, TNFAIP4	P
1.256	12	2	96	1q21-q22	EPLG3	P
1.257	12	2	96	1q21-q22	EPLG4	P
1.258	1	9	94	1q21-q22	FY, GPD	C
1.259	4	18	94	1q21-q22	NPR1, ANPRA	P
1.26	9	2	96	1q21-q22	NTRK1, TRKA	C
1.261	7	10	93	1q21-q22	SPRR1A	P
1.262	7	10	93	1q21-q22	SPRR1B	P
1.263	7	10	93	1q21-q22	SPRR2A	P
1.264	7	10	93	1q21-q22	SPRR2B	P

1.265	7	10	93	1q21-q22	SPRR2C	P
1.266	7	10	93	1q21-q22	SPRR3	P
1.267	5	1	91	1q21-q22	UGP1	C
1.268	4	30	91	1q21-q23	APCS, SAP	C
1.269	4	30	91	1q21-q23	APOA2	C
1.27	4	12	92	1q21-q23	ATP1A2	C
1.271	3	21	93	1q21-q23	CD1A	C
1.272	3	21	93	1q21-q23	CD1B	C
1.273	3	21	93	1q21-q23	CD1C	C
1.274	3	21	93	1q21-q23	CD1D	C
1.275	10	9	94	1q21-q23	CD1E	C
1.276	5	1	91	1q21-q23	CRP	C
1.277	9	22	96	1q21-q23	DFNA7	P
1.278	1	27	97	1q21-q23	FCGR2B, IGFR2, CD32	C
1.279	11	9	95	1q21-q23	GIRK3	P
1.28	12	5	95	1q21-q23	ETV3, PE1	P
1.281	12	5	95	1q21-q23	SSR2	P
1.282	1	1	95	1q21-q25	LTN	P
1.283	11	7	95	1q21-q31	HRPT2	P
1.284	2	3	97	1q21-q31	TIGR, GLC1A, JOAG, GPOA	C
1.285	10	9	94	1q21-q31	TUFT1	P
1.286	2	16	96	1q21.1-q21.2	ADAR, DRADA	P
1.287	7	4	95	1q21.2-q21.3	FCGR1A, IGFR1, CD64	C
1.288	4	23	96	1q21.2-q21.3	LMNA, LMN1	P
1.289	2	9	92	1q21.2-q22	HSPCAL1	P
1.29	3	21	93	1q21.3	THL	C
1.291	3	21	93	1q21.3-q22	CD48, BCM1, BLAST1	C
1.292	9	11	95	1q21.3-q22	LY9	P
1.293	3	3	95	1q22	IFI16	P
1.294	3	3	95	1q22	MNDA	P
1.295	12	16	93	1q22	MPZ, CMT1B	C
1.296	7	12	94	1q22	NHLH1, HEN1	P
1.297	9	12	96	1q22	PPOX	P
1.298	1	10	96	1q22-q23	CD3Z, TCRZ	C
1.299	1	11	95	1q22-q23	LMX1	P
1.3	5	9	95	1q22-q23	OTF1, OCT1	C
1.301	5	2	94	1q22-q23	RXRG	P
1.302	5	9	95	1q22-q23	TPM3, NEM1	C
1.303	11	4	93	1q22-q23	USF1	P
1.304	9	14	88	1q22-q24	SKI	P
1.305	3	21	93	1q22-q25	ATP1B1	C
1.306	1	23	90	1q23	D1S111, MS336	P
1.307	3	17	94	1q23	F5	C
1.308	7	10	91	1q23	FCER1A	C

1.309	8	11	91	1q23	FCER1G	P
1.31	8	20	91	1q23	FCGR3A, CD16, IGFR3	C
1.311	2	20	97	1q23	GLUL, GLNS	P
1.312	2	9	92	1q23	PBX1	C
1.313	10	9	94	1q23	TRIC5	P
1.314	8	9	94	1q23-q24	TRK	C
1.315	2	9	92	1q23-q25	AT3	C
1.316	4	30	93	1q23-q25	FMO1	P
1.317	1	1	95	1q23-q25	SELE, ELAM1	C
1.318	12	3	96	1q24-q25	^HPC1	P
1.319	1	9	94	1q23-q25	SELL, LYAM1, LAM1, LNHR	C
1.32	3	21	93	1q23-q25	SELP, GRMP	C
1.321	2	4	92	1q24-q25	ABL2, ABLL, ARG	P
1.322	1	1	95	1q24-q31	FDPSL1, CHR39A	P
1.323	10	20	92	1q24-q32	CSRP	P
1.324	11	7	95	1q25	ASTT	P
1.325	1	7	93	1q25	NCF2	C
1.326	6	16	95	1q25	PLA2G4	P
1.327	7	1	94	1q25	RNS4	P
1.328	3	12	96	1q25	SOAT, STAT, ACAT	P
1.329	1	1	95	1q25	TPR	C
1.33	3	8	91	1q25-q31	BGLAP	P
1.331	2	18	96	1q25-q31	CACL1A6	P
1.332	6	1	94	1q25-q31	LAMC2, LAMNB2, LAMB2T	C
1.333	1	23	96	1q25-q31	SRN1	P
1.334	12	16	93	1q25-q31.1	PDC	C
1.335	7	10	92	1q25-q32	ATP2B4, ATP2B2, PMCA4	P
1.336	1	1	95	1q25.2-q25.3	PTGS2	P
1.337	9	22	95	1q25.3	MR1	P
1.338	1	24	93	1q31	CTSE	C
1.339	11	8	94	1q31	EBR2A	P
1.34	10	29	96	1q31	RGS2, G0S8	P
1.341	6	1	94	1q31	LAMC1, LAMB2	C
1.342	8	12	91	1q31	PFKB2	P
1.343	11	27	94	1q31	SSA2	C
1.344	10	9	94	1q31-q32	PCTK3	P
1.345	2	25	92	1q31-q32	PTPRC, CD45, LCA	C
1.346	3	21	93	1q31-q32.1	F13B	C
1.347	11	5	95	1q31-q32.1	FHR2	P
1.348	10	9	94	1q31-q32.1	RP12	P
1.349	12	3	90	1q31-q41	MYOG, MYF4	C
1.35	9	21	95	1q31-q42	AD4, STM2	P
1.351	1	24	93	1q31-q42	PIGR	C
1.352	4	24	96	1q32	AVPR3, AVPR1B	P

1.353	3	27	89	1q32	RCAC@	C
1.354	7	9	90	1q32	C4BPA	C
1.355	7	9	90	1q32	C4BPB	P
1.356	10	9	94	1q32	CACNL1A3, CCHL1A3	C
1.357	3	11	92	1q32	CD34	C
1.358	11	12	96	1q32	^CMPD2	P
1.359	4	2	90	1q32	CR1, C3BR	C
1.36	4	2	90	1q32	CR2, C3DR	C
1.361	10	23	87	1q32	DAF	C
1.362	1	1	95	1q32	ELK4, SAP1	P
1.363	5	9	95	1q32	HF1, CFH	C
1.364	2	12	96	1q32	LAMB3	P
1.365	11	4	93	1q32	MCP, CD46	C
1.366	12	18	95	1q32	RBBP5, RBQ3	P
1.367	3	5	95	1q32	REN	C
1.368	3	30	90	1q32	SNRPE	C
1.369	8	5	96	1q32	TNNT2, CMH2	C
1.37	6	17	91	1q32	VWS, LPS, PIT	C
1.371	1	1	95	1q32-q41	CENPF	P
1.372	6	6	94	1q32-q42	EPRS, QPRS, QARS	C
1.373	5	18	95	1q32.1	ADORA1, RDC7	P
1.374	1	1	95	1q32.1	FMOD	P
1.375	11	4	93	1q32.1	MYBPH	C
1.376	11	27	94	1q32.1	PTPN7	P
1.377	1	15	96	1q32.1	TAX, TAX1	C
1.378	10	23	87	1q32.1-q42	GUK1	C
1.379	10	23	87	1q32.1-q42	GUK2	C
1.38	12	20	96	1q32.2-q32.3	PROX1	P
1.381	2	9	95	1q41	RMD1	P
1.382	3	21	93	1q41	TGFB2	C
1.383	3	5	95	1q41	USH2A	C
1.384	7	11	95	1q41-q42.1	HLXB9, HOXHB9	P
1.385	3	21	93	1q41-q42.1	HLX1	C
1.386	10	16	92	1q41-q43	ITPKB	P
1.387	9	9	92	1q41-q44	CHRM3	P
1.388	1	4	93	1q42	ADPRT, PPOL	C
1.389	9	12	96	1q42	ARF1	P
1.39	8	8	91	1q42	HRES1	P
1.391	6	8	89	1q42	PEPC	C
1.392	10	23	87	1q42-q43	A12M1	P
1.393	8	21	92	1q42-q43	ACTN2	P
1.394	6	11	93	1q42-q43	AGT	C
1.395	1	23	96	1q42-q43	AVRD2	P
1.396	10	12	90	1q42-q43	RAB4	P

1.397	3	17	94	1q42-qter	CHML	C
1.398	7	4	95	1q42.1	ACTA1, ASMA	C
1.399	7	5	90	1q42.1	FH	C
1.4	4	23	96	1q42.1	LBR	P
1.401	9	12	93	1q42.1-q43	RYR2	C
1.402	10	15	91	1q42.11-q42.13	RN5S1@	C
1.403	1	8	97	1q42.1-q42.2	LYST, CHS	C
1.404	6	8	89	1q43	NID	P
1.405	10	1	95	1q44	PRIM1	P
1.406	3	23	93	1q44	ZNF124	P
1.407	5	18	90	Chr.1	CAPN2	P
1.408	8	6	91	Chr.1	CYMP	P
1.409	3	29	95	Chr.1	D1S2223E, HK33	P
1.41	11	6	92	Chr.1	EEK	P
1.411	5	24	90	Chr.1	G1P1	P
1.412	11	5	90	Chr.1	G1P2	P
1.413	12	5	95	Chr.1	GBP1	P
1.414	11	13	94	Chr.1	HPCA	P
1.415	8	30	95	Chr.1	HSD11B1, HSD11, HSD11L	P
1.416	8	24	92	Chr.1	IL10	P
1.417	2	15	91	Chr.1	INSRR, IRR	P
1.418	10	30	91	Chr.1	KCNC4	P
1.419	6	20	91	Chr.1	MIC10	P
1.42	4	10	90	Chr.1	MTR	P
1.421	2	15	96	Chr.1	OCT	P
1.422	11	4	93	Chr.1	RNE1	P
2.1	3	26	90	2pter-p12	ARH6, RHOH6	P
2.2	11	6	94	2p25.3	D2S448, MG50	P
2.3	9	28	96	2p25.2-p25.1	YWHAZ	P
2.4	7	7	89	2p25	ACP1	C
2.5	1	15	96	2p25	ID2	P
2.6	10	23	87	2p25	ODC1	C
2.7	2	29	88	2p25	POMC	C
2.8	11	5	95	2p25	SOX11	P
2.9	7	6	95	2p25	TPO, TPX	C
2.1	4	10	90	2p25-p24	RRM2	P
2.11	5	1	91	2p24.1	MYCN, NMYC	C
2.12	6	29	94	2p24.1	SDC1	C
2.13	2	1	89	2p24	APOB	C
2.14	5	13	96	2p24	DDX1	P
2.15	1	11	95	2p24-p22	ADCY3	C
2.16	11	15	94	2p24-p21	SPG4	C
2.17	10	18	96	2p23.3-p23.2	GCKR	C
2.18	10	18	96	2p23.3-p23.2	KHK	P

2.19	9	29	96	2p23.3-p23.1	PPIL1	P
2.2	7	6	95	2p23	ALK	C
2.21	10	17	96	2p23	HADHA, MTPA	C
2.22	10	21	96	2p23	HADHB	P
2.23	6	16	95	2p23	PPP1CB	P
2.24	11	22	95	2p23	SRD5A2	C
2.25	2	19	96	2p23-p22	DFNB9	P
2.26	7	10	93	2p23-p22	NCX1	C
2.27	5	9	95	2p23-p22	XDH	C
2.28	2	28	94	2p23-p21	MPV17	P
2.29	1	5	93	2p23-qter	IFNB3	I
2.3	5	10	96	2p22-p21	MSH2, COCA1, FCC1	C
2.31	11	20	95	2p22-p21	SFRS7, 9G8	P
2.32	1	27	97	2p22-p21	SOS1	P
2.33	7	12	92	2p22-p16	HTLF	P
2.34	10	23	87	2p22-p11	GLAT	P
2.35	7	10	93	2p21.3-p21.1	CALM2	P
2.36	11	7	89	2p21	CAD	P
2.37	2	18	96	2p21	GLC3A	P
2.38	4	1	96	2p21	HPE2	C
2.39	8	30	95	2p21	LHCGR	P
2.4	3	3	97	2p21	LSL	P
2.41	7	11	93	2p21	PRKR	C
2.42	5	1	91	2p21	SPTBN1	P
2.43	4	1	96	2p21-p16	DRAD, MLVT, DHD	P
2.44	11	5	95	2p21-p16	FSHR, ODG1	C
2.45	2	4	96	2p21-p16	PIGF	P
2.46	7	6	95	2p16.3	SLC3A1, ATR1, D2H, NBAT	C
2.47	11	7	95	2p16	CNC	P
2.48	9	12	96	2p16	DHRD	P
2.49	10	22	96	2p16	GTBP, MSH6	P
2.5	3	15	96	2p16	MDH1	C
2.51	1	1	95	2p15-p13	SLC1A4, SATT, ASCT1	P
2.52	4	1	96	2p14-p13.4	RAB1, RAB1A	P
2.53	12	17	95	2p14-p13	ADD2	C
2.54	3	3	97	2p14-p13	ALSS	P
2.55	11	6	94	2p14-p13	EMX1	P
2.56	4	18	97	2p14-p13	MEIS1	P
2.57	10	28	96	2p13.3-p13.1	LGMD2B	C
2.58	12	7	95	2p13.1	ACTG2, ACTA3	C
2.59	2	9	92	2p13	ANX4	P
2.6	8	24	92	2p13	EGR4, NGFIC	P
2.61	5	9	95	2p13	GFPT	C
2.62	11	27	94	2p13	MAD	P

2.63	11	6	94	2p13	OTX1	P
2.64	7	10	93	2p13	TGFA	C
2.65	7	8	96	2p13-p12	GCS1	P
2.66	5	1	91	2p13-p12	REL	P
2.67	12	21	87	2p12	CD8A	C
2.68	9	12	93	2p12	CD8B	C
2.69	1	9	96	2p12	GGCX	P
2.7	4	11	97	2p12	HK2	P
2.71	11	30	87	2p12	IGK@	C
2.72	7	10	93	2p12	IGKV	C
2.73	10	23	87	2p12	IGKJ	C
2.74	7	10	93	2p12	IGKC	C
2.75	6	18	91	2p12	IGKDEL	P
2.76	3	17	94	2p12	PAP	C
2.77	3	14	96	2p12	REG1A, PSPS1, REG	C
2.78	10	4	93	2p12	REGL, PSPS2	P
2.79	3	22	93	2p12-p11.1	CAPR, CTNR	P
2.8	4	30	91	2p12-q11	D2S69E, TLA519	P
2.81	5	9	95	2p12-p11.2	SFTP3	C
2.82	5	2	94	2p12-q22	LTBP1	P
2.83	1	1	95	2p11.2	LIS2	P
2.84	10	17	96	2p11.2	MATA2	P
2.85	1	24	93	2p11.2-p11.1	TCF9	P
2.86	1	25	88	2p11	FABP1	C
2.87	5	7	89	2p11-q11	PLGL	P
2.88	12	4	95	2p	VSNL1	P
2.89	3	8	91	2cen-q13	COX5B	P
2.9	9	28	96	2cen-q13	GLC1B	P
2.91	10	23	87	2cen-q13	INHBB	P
2.92	10	23	87	2cen-q13	MAL	P
2.93	12	19	90	2cen-q13	RALB	P
2.94	8	8	91	2cen-q13	VPP3	P
2.95	1	1	95	2cen-q24	CAPG	P
2.96	1	21	97	2q	BARD1	P
2.97	1	9	97	2q	BCG, TBS	L
2.98	7	8	96	2q	NIDDM1	P
2.99	10	23	87	2q	TUBA1	P
2.1	2	22	92	2q11-q14	GLVR1	P
2.101	1	1	96	2q11.2	SLC9A2	C
2.102	10	17	96	2q11.2-q12	LAF4	P
2.103	4	26	93	2q12	IL1RA	P
2.104	1	1	95	2q12	ZAP70	C
2.105	11	5	90	2q12-q14	IGO1	P
2.106	4	30	93	2q12-q14	PAX8	C

2.107	1	5	93	2q12-q21	DBI	I
2.108	7	10	93	2q12-q22	IL1RB	P
2.109	2	26	95	2q12-qter	NCL	P
2.11	10	9	94	2q13	NPH1	C
2.111	1	9	95	2q13-q14	PROC	C
2.112	3	22	93	2q13-q21	EN1	C
2.113	9	14	89	2q13-q21	IL1A	C
2.114	4	10	90	2q13-q21	IL1B	P
2.115	10	22	96	2q14	BIN1	P
2.116	9	28	96	2q14	GLI2	C
2.117	3	15	91	2q14-q21	GYPC, GE, GPC	P
2.118	9	14	89	2q14-q21	LCO	P
2.119	10	12	90	2q14-q21	RAB6	P
2.12	2	10	95	2q14-q21	VIS1, HIS1	P
2.121	11	8	95	2q14.1	SCTR	P
2.122	3	22	93	2q14.2	IL1RN	C
2.123	7	11	93	2q21	D2S201E	P
2.124	9	7	90	2q21	ERCC3, XPB	C
2.125	1	9	94	2q21	LCT, LAC	C
2.126	3	17	94	2q21-q23	SCN6A	P
2.127	1	1	95	2q23	DPP4, CD26, ADCP2	C
2.128	3	5	95	2p23	FAPA	P
2.129	10	21	92	2q23-q24.3	SCN2A	C
2.13	2	6	94	2q24	SCN1A	C
2.131	6	7	94	2q24	SCN3A	C
2.132	11	6	94	2q24-q31	LRP2	C
2.133	9	9	92	2q24-q32	CHRNA1	C
2.134	1	11	95	2q24-qter	NPPC	L
2.135	11	7	95	2q24.1	GPD2	P
2.136	12	2	96	2q24.1	KCNJ3, GIRK1	P
2.137	11	22	94	2q31	COL3A1	C
2.138	5	25	88	2q31	COL5A2	C
2.139	5	21	92	2q31	GAD1	C
2.14	3	26	95	2q31	IDDM7	P
2.141	5	9	95	2q31	NFE2L2, NRF2	P
2.142	1	4	93	2q31-q32	EVX2	P
2.143	2	26	93	2q31-q32	HOXD@, HOX4@	C
2.144	2	26	93	2q31-q32	HOXD3, HOX4A	C
2.145	2	26	93	2q31-q32	HOXD4, HOX4B	C
2.146	2	26	93	2q31-q32	HOXD9, HOX4C	C
2.147	2	26	93	2q31-q32	HOXD10, HOX4D	C
2.148	2	26	93	2q31-q32	HOXD8, HOX4E	C
2.149	2	26	93	2q31-q32	HOXD11, HOX4F	C
2.15	2	26	93	2q31-q32	HOXD1, HOX4G	C

2.151	2	26	93	2q31-q32	HOXD12, HOX4H	P
2.152	9	12	96	2q31-q32	HOXD13, HOX4I, SPD	C
2.153	7	16	92	2q31-q32	ITGA4, CD49D	C
2.154	3	22	93	2q31-q32	ITGAV, VNRA	C
2.155	2	29	88	2q31-q32	NEB	C
2.156	3	3	97	2q31-q32	PPH1	P
2.157	8	20	91	2q31-q32	TTN	P
2.158	6	16	94	2q31-q32.1	CHN	P
2.159	12	30	92	2q31-q32.1	TFPI, LACI	C
2.16	1	16	97	2q31-q33	PMS1, PMSL1	P
2.161	4	16	91	2q32	CREB2	C
2.162	1	8	95	2q32	DLX1	P
2.163	1	8	95	2q32	DLX2, TES1	C
2.164	1	15	96	2q32	INPP1	P
2.165	4	7	97	2q32	NEUROD	P
2.166	6	11	93	2q32	WSS	P
2.167	8	8	91	2q32-q34	GLS	P
2.168	1	11	89	2q32-q33.3	RPE	C
2.169	12	7	95	2q34-q36	CRYBA2	P
2.17	4	10	90	2q32.1-qter	MYL1	C
2.171	8	21	92	2q32.3-q34	CREB1	C
2.172	8	24	92	2q33	CTLA4	C
2.173	4	9	96	2q33	ORC2L	P
2.174	7	6	95	2q33	PLCL	P
2.175	10	21	96	2q33	PTHR2	P
2.176	8	24	92	2q33-q34	CD28	C
2.177	10	12	90	2q33-q34	CHRND, ACHRD	C
2.178	10	12	90	2q33-q34	CHRNG, ACHRG	C
2.179	12	5	91	2q33-q34	IGFBP2	C
2.18	7	11	93	2q33-q34	NDUFS1	P
2.181	11	6	92	2q33-q35	ALS2	P
2.182	5	22	91	2q33-q35	CHE2	P
2.183	12	22	89	2q33-q35	CRYG@, CCL	C
2.184	4	7	94	2q33-q35	CRYGA, CRYG1	C
2.185	4	7	94	2q33-q35	CRYGB, CRYG2	C
2.186	4	7	94	2q33-q35	CRYGC, CRYG3	C
2.187	4	7	94	2q33-q35	CRYGD, CRYG4	C
2.188	4	7	94	2q33-q35	CRYGEP1, CRYG5	C
2.189	4	7	94	2q33-q35	CRYGFP1, CRYG6	P
2.19	10	17	96	2q33-q35	ICR2B, LI2	P
2.191	10	17	96	2q33-q35	PDC	P
2.192	7	6	95	2q33-q35	PI7, PN1	P
2.193	1	4	93	2q33-q36	INHA	C
2.194	6	21	91	2q33-qter	CYP27, CTX	P

2.195	10	23	87	2q33.3	IDH1	C
2.196	12	7	95	2q33.3-q34	ERBB4, HER4	P
2.197	6	11	93	2q34	FN1	C
2.198	10	17	96	2q34	IDDM13	P
2.199	1	10	89	2q34	TCL4	P
2.2	8	8	91	2q34-q35	ACADL, LCAD	P
2.201	10	23	87	2q34-q35	MAP2	P
2.202	9	30	95	2q35	CPS1	C
2.203	9	12	93	2q35	DES	P
2.204	5	27	93	2q35	IL8RA	C
2.205	9	12	93	2q35	IL8RB	C
2.206	5	14	96	2q35	PAX3, WS1, HUP2, CDHS	C
2.207	6	6	94	2q35	XRCC5	C
2.208	7	4	95	2q35	NRAMP, NRAMP1	C
2.209	4	23	96	2q35-q36	CHGC, SCG2	P
2.21	6	4	90	2q35-q36	TNP1	P
2.211	12	17	95	2q35-q36	TNS	P
2.212	2	1	90	2q35-q36	VIL1	C
2.213	3	5	95	2q35-q37	GPC1	P
2.214	3	17	94	2q36	IRS1	P
2.215	10	9	94	2q36	SLC2C, AE3	C
2.216	3	15	91	2q36-q37	AGXT, SPAT	P
2.217	1	9	96	2q36-q37	COL4A3	C
2.218	10	9	94	2q36-q37	COL4A4	C
2.219	5	12	89	2q36-q37	GCG	C
2.22	3	5	95	2q36-q37.2	VGL	P
2.221	7	11	93	2q36.3-q37.1	ALPI	C
2.222	3	14	96	2q36.3-q37.1	HTR2B	P
2.223	4	12	92	2q37	ALPP	C
2.224	4	12	92	2q37	ALPPL2	P
2.225	3	5	95	2q37	BDE	L
2.226	3	9	95	2q37	BDMR	P
2.227	10	22	96	2q37	COL6A3	C
2.228	1	6	97	2q37	DIFF6	P
2.229	7	11	93	2q37	HDLBP	P
2.23	7	6	95	2q37.1	SAG	C
2.231	1	1	95	2q37.3	PDCD1	P
2.232	4	12	92	Chr.2	ADRA2B, ADRA2L1	P
2.233	12	13	95	Chr.2	EEF1B2	P
2.234	1	11	95	Chr.2	HPCAL1	P
2.235	3	6	92	Chr.2	ITGA6	P
2.236	3	6	92	Chr.2	ITGB6	P
2.237	7	10	91	Chr.2	MIC18	P
2.238	11	4	93	Chr.2	NPY3R	P

2.239	5	27	93	Chr.2	PTMA, TMSA	P
2.24	6	28	95	Chr.2	SLC9A4, NHE4	P
2.241	1	24	93	Chr.2	TAC1R, NK1R	C
2.242	11	20	95	Chr.2	TNFAIP6	P
2.243	10	23	87	Chr.2	UGP2	P
2.244	9	11	95	Chr.2	UGT1A1, GNT1	P
2.245	9	15	96	Chr.2	UROC	P
2.246	10	23	87	Chr.2	UV24	P
2.247	4	10	90	Chr.2	ZNF2	P
3.1	12	22	89	3pter-p21	CCK	C
3.2	2	11	97	3pter-p21	GPRV28	P
3.3	2	15	96	3pter-p14	SEP	P
3.4	3	5	95	3p26.2	OXTR	C
3.5	9	15	96	3p26	PANG	P
3.6	10	9	94	3p26-p25	ATP2B2, PMCA2	C
3.7	1	1	95	3p26-p25	ITPR1	C
3.8	7	11	93	3p26-p25	VHL	C
3.9	6	7	94	3p26-p24	IL5RA	C
3.1	11	2	95	3p26-p22	FACD, FAD	P
3.11	1	1	95	3p25.1	RAD23B	P
3.12	9	1	95	3p25	BTD	P
3.13	8	24	92	3p25	RAF1	C
3.14	9	18	96	3p25	TR4	P
3.15	1	9	94	3p25	XPC, XPCC	C
3.16	4	24	96	3p25-p24.2	MFS2	P
3.17	11	8	94	3p25-p24	D3S1231E, SEC13R	P
3.18	10	9	94	3p25-p24	FBLN2	P
3.19	12	4	95	3p25-p24	SLC6A1, GABATR	P
3.2	11	12	96	3p25-p22	^CDCD2, CMPD2	P
3.21	3	5	95	3p25-q24	SLC6A6, TAUT	C
3.22	8	24	92	3p24.3	THRB, ERBA2, THR1	C
3.23	5	27	93	3p24.2-p21.2	IMPDH2	P
3.24	2	3	97	3p24	DAZH	P
3.25	8	15	90	3p24	RARB, HAP	C
3.26	4	16	91	3p24-p22	RAB5	P
3.27	5	9	95	3p24-p21	SCN5A, LQT3	C
3.28	6	15	89	3p23-p22	ACAA	P
3.29	7	11	93	3p23-p21	NKTR	P
3.3	1	11	89	3p23-p21	SCLC1	C
3.31	9	29	96	3p23-p21	TDGF1	C
3.32	1	1	95	3p22	TGFBR2	P
3.33	5	9	95	3p22	VIPR1	P
3.34	7	8	95	3p22-p21.33	TGM4	P
3.35	7	8	95	3p22-p21.3	CTNNB1	C

3.36	9	22	96	3p22-p21.3	TCEA	P
3.37	11	8	94	3p22-p21.1	PTHR	C
3.38	6	18	90	3p22-p21	ZNF35, HF10	P
3.39	2	28	94	3p21.33	GLB1	C
3.4	10	1	95	3p21.3	COL7A1	C
3.41	11	18	96	3p21.3	MLH1, COCA2	P
3.42	1	20	95	3p21.3	MST1R, RON	P
3.43	3	15	96	3p21.3	SEMA3F	P
3.44	7	8	96	3p21.3	SEAM5	P
3.45	2	28	94	3p21.3	UQCRC1	P
3.46	1	25	96	3p21.3-p21.1	GPR5	P
3.47	2	11	97	3p21.3-p14.3	TNNC1	P
3.48	3	18	94	3p21.2-p21.1	AMT	P
3.49	5	3	95	3p21.2-p21.1	ARF2	P
3.5	10	6	92	3p21.2-p21.1	ITIH1	C
3.51	10	6	92	3p21.2-p21.1	ITIH3	C
3.52	4	10	97	3p21.2-p14.1	PEO2	P
3.53	8	24	92	3p21.1	ACY1	C
3.54	7	8	95	3p21.1	ALAS1	C
3.55	5	9	95	3p21.1-p12	SCA7, OPCA3	C
3.56	12	7	95	3p21.1-p14.1	LRS1, LAR1	P
3.57	6	7	94	3p21	APEH, D3S48E	C
3.58	3	26	90	3p21	ARH12, RHOH12	P
3.59	11	4	93	3p21	CDC25A	P
3.6	4	1	96	3p21	CMKBR1	P
3.61	12	4	96	3p21	CMKBR5, CCCKR5	P
3.62	1	26	93	3p21	DAG1, DAG	P
3.63	12	9	91	3p21	GNAI2, GNAI2B, GIP	C
3.64	5	21	92	3p21	GNAT1	C
3.65	1	1	95	3p21	LAMB2, LAMS	C
3.66	8	27	92	3p21	MST1, HGFL	P
3.67	12	7	95	3p21	TCTA	P
3.68	11	4	93	3p21	UBE2	P
3.69	12	3	96	3p21-p14	DFNB6	P
3.7	11	8	94	3p21-p14	HRH1	P
3.71	2	28	94	3p21-p14	WNT5A	P
3.72	3	14	96	3p21-p12	TMF1	P
3.73	2	19	97	3p14.3	BRCACOX	P
3.74	1	4	93	3p14.3	CACNL1A2, CCHL1A2	C
3.75	4	1	96	3p14.3	TKT1	P
3.76	4	1	96	3p14.2	FHIT	P
3.77	3	22	93	3p14.2	PTPRG, PTPG	C
3.78	11	16	94	3p14.2	RCA1, HRCA1	C
3.79	1	1	95	3p14.1-p12.3	MITF, WS2A	C

3.8	11	8	94	3p13-p12	BBS3	P
3.81	3	27	90	3p13-q23	PDHB	P
3.82	4	1	96	3p12	GBE1	P
3.83	5	3	93	3p12-q13.2	IL12A	P
3.84	7	11	93	3p12-qter	ZNF80	P
3.85	3	18	94	3p11.2	ETK1, HEK	P
3.86	10	1	95	3p11.1-q11.2	DMT1	P
3.87	2	28	89	3p11.1-q11.2	PROS1	C
3.88	8	24	92	3p11.1-q11.2	PROSP, PROS2	P
3.89	12	9	95	3p11	POU1F1, PIT1	C
3.9	9	9	96	3p	MYL3	P
3.91	3	18	94	3p	PRKCD	P
3.92	10	1	95	3p	SYN2	P
3.93	5	21	92	3p	TOP2B	P
3.94	7	8	95	3p	TRH	P
3.95	11	8	95	3cen-q21	MYLK, MLCK	P
3.96	3	6	94	3q	CTPCT	L
3.97	5	1	91	3q	RPN1	P
3.98	3	26	90	3q11-q12	GPX1	C
3.99	4	1	96	3q11.2-q13.1	GPR15	P
3.1	1	7	95	3q12	CPO	P
3.101	11	28	88	3q12-q13	MOX2	C
3.102	7	11	91	3q12-q13.1	COL8A1	P
3.103	3	15	92	3q13	FACL1, LACS	P
3.104	3	9	95	3q13	FIH	L
3.105	9	29	96	3q13	HCLS1	P
3.106	2	28	89	3q13	UMPS, OPRT	C
3.107	12	3	95	3q13-q22	CMT2B	P
3.108	11	25	96	3q13.1	MHS4	P
3.109	2	19	97	3q13.1-q13.2	ALCAM	P
3.11	9	9	96	3q13.1-q13.2	MER6, CD47, IAP	C
3.111	5	9	95	3q13.2-q21	ADCY5	C
3.112	1	25	93	3q13.3	DRD3	P
3.113	4	1	91	3q13.3-q24	ZNF9, CNBP1	P
3.114	12	9	95	3q21	CD80, CD28LG, LAB7	C
3.115	10	9	94	3q21	CDCL1	P
3.116	5	9	95	3q21	NCK	C
3.117	3	31	97	3q21	STFA, STF1	P
3.118	10	23	87	3q21	TF	C
3.119	11	13	96	3q21-q22	MBS2	P
3.12	8	8	91	3q21-q22	PCCB	C
3.121	12	22	89	3q21-q22	RBP1, CRBP1	C
3.122	10	4	93	3q21-q23	ACPP	C
3.123	11	6	95	3q21-q23	EPHT2, NET	P

3.124	10	22	96	3q21-q23	HGD, AKU	C
3.125	10	12	90	3q21-q23	LTF	C
3.126	12	9	95	3q21-q24	BCPM, HHD	C
3.127	9	26	96	3q21-q24	CASR, HHC1, PCAR1	P
3.128	6	29	95	3q21-q24	CP	C
3.129	9	12	93	3q21-q24	RHO, RP4	C
3.13	5	9	95	3q21-q25	AGTR1, AGTR1A, AT2R1	C
3.131	12	9	95	3q21-q25	M3S1	P
3.132	11	8	94	3q21-q25	USH3	P
3.133	5	21	92	3q21-q27	MME, CD10, CALLA	C
3.134	1	1	95	3q21-q28	SIAT1	P
3.135	2	15	96	3q21-qter	NOVP, NOV	P
3.136	12	22	87	3q21-qter	RBP2, CRBP2	P
3.137	1	27	97	3q22-q23	BPES	C
3.138	1	21	97	3q22-q23	RASA2, GAP1M	P
3.139	4	23	96	3q22-q24	FRP1	P
3.14	9	12	93	3q25	IGKJRB1	P
3.141	8	29	96	3q25.1	MLF1	P
3.142	2	20	97	3q25.1-q25.2	PFN2, PFL, D3S1319E	P
3.143	4	1	96	3q25-q26	SI	P
3.144	12	3	96	3q26	EVI1	C
3.145	10	9	94	3q26	MDS1	P
3.146	11	4	93	3q26	RPL22, EAP	C
3.147	1	10	96	3q26-qter	CLCN2	P
3.148	8	8	91	3q26.1-q26.2	BCHE, CHE1	C
3.149	6	13	95	3q26.1-q26.2	ECT2	P
3.15	11	28	94	3q26.1-q26.3	SLC2A2, GLUT2	C
3.151	10	23	87	3q26.2	TFRC	C
3.152	9	15	96	3q26.2-q26.3	OSP	P
3.153	5	1	91	3q26.2-qter	APOD	P
3.154	12	9	91	3q26.3	CDL	L
3.155	6	8	95	3q26.3	PIK3CA	P
3.156	1	1	95	3q26.3-q27	SOX2	P
3.157	12	9	95	3q26.3-q27	MGDF, THPO, MPLLG, TPO	C
3.158	7	8	95	3q27	AHSG	C
3.159	12	16	93	3q27	BCL6	P
3.16	8	15	96	3q27	DVL3	C
3.161	4	9	96	3q27	EHHADH, PBFE	C
3.162	12	14	87	3q27	FIM3	P
3.163	7	8	95	3q27	HRG	C
3.164	7	8	95	3q27	KNG	C
3.165	3	5	95	3q27	RFC4	P
3.166	12	9	95	3q27-q28	CRARF	P
3.167	5	9	95	3q27-qter	EIF4G	P

3.168	4	10	97	3q28	CLAPM1	P
3.169	1	26	97	3q28	ETV5, ERM	C
3.17	2	24	97	3q28	FGF12, FHF1	P
3.171	10	1	95	3q28	LPP	P
3.172	10	23	87	3q28	SST	C
3.173	12	9	95	3q28-q29	HRY	P
3.174	12	3	95	3q28-q29	OPA1	C
3.175	2	18	96	3q29	DLG1	P
3.176	10	23	87	3q29	MFI2, MAP97	P
3.177	8	8	91	3q29	MUC4	P
3.178	4	4	96	3q29-qter	RPL35A	P
3.179	10	23	87	Chr.3	AF8T	P
3.18	2	23	92	Chr.3	CPA3	P
3.181	4	7	94	Chr.3	CRYGS, CRYG8	P
3.182	2	22	92	Chr.3	ERCM1	P
3.183	6	14	95	Chr.3	ERVT4, TRV4	P
3.184	6	8	89	Chr.3	GAP43	P
3.185	4	11	97	Chr.3	GATA2	P
3.186	7	8	95	Chr.3	GP9	P
3.187	12	6	91	Chr.3	GSTM1L, GST1L	P
3.188	10	23	87	Chr.3	HV1S	I
3.189	4	1	96	Chr.3	P2RY1, P2Y1	P
4.1	2	9	92	4pter-q21	CSN2	P
4.2	9	7	90	4pter-q21	SOD3	P
4.3	1	4	93	4p16.3	ADD1	C
4.4	4	23	96	4p16.3	DAGK4	P
4.5	1	23	96	4p16.3	DFNA6	P
4.6	2	28	94	4p16.3	DRD1B	P
4.7	10	7	96	4p16.3	FGFR3, ACH	C
4.8	12	13	95	4p16.3	GPRK2L, GPRK4	P
4.9	4	15	93	4p16.3	HD, IT15	C
4.1	7	14	94	4p16.3	IDUA, IDA	P
4.11	11	6	94	4p16.3	LRPAP1, A2MRAP	C
4.12	3	22	93	4p16.3	MYL5	P
4.13	1	23	97	4p16.3	PDE6B, PDEB, CSNB3	C
4.14	1	13	93	4p16.3	WHCR	C
4.15	11	4	93	4p16.3	ZNF141, D4S90	P
4.16	9	9	96	4p16.1	HMX1, H6	P
4.17	9	2	96	4p16.1	MSX1, HOX7	C
4.18	10	28	96	4p16.1	WFRS	C
4.19	2	28	94	4p16.1-p15.3	DRD5	C
4.2	7	8	95	4p16	CRSA, CRS3	P
4.21	9	30	95	4p16	EVC	P
4.22	7	8	95	4p16	S100P	P

4.23	1	12	93	4p16-p14	CDPR	L
4.24	5	9	95	4p15	CD38	P
4.25	4	30	91	4p15.31	QDPR, DHPR	C
4.26	12	18	91	4p15-qter	EIF4EL1	P
4.27	8	8	91	4p14	UCHL1	P
4.28	3	5	95	4p14-p13	RFC1, RECC1	C
4.29	5	16	95	4p14-q12	GABRA4	P
4.3	10	23	87	4p14-q12	PGM2	C
4.31	11	13	95	4p14-q13	CNCG1	C
4.32	1	30	91	4p14-q21	BMP3	P
4.33	8	21	92	4p14-q21.1	GABRG1	P
4.34	7	11	93	4p13-p12	GABRA2	P
4.35	7	11	93	4p13-p12	GABRB1	P
4.36	3	5	95	4p13-q12	TAPVR1	P
4.37	12	13	95	4p12	TEC	P
4.38	10	12	94	4p12	TXK, BTKL	C
4.39	10	6	92	4p12-q13	PPBP, TGB1	C
4.4	10	23	87	4p11-q12	PEPS	C
4.41	10	23	87	4cen-q21	MT2P1	C
4.42	1	27	97	4q	M4S1	P
4.43	10	8	96	4q	PSORS3	P
4.44	10	12	94	4q11-q13	AFM, ALBA, ALB2	C
4.45	11	16	90	4q11-q13	AFP, HPAFP	C
4.46	10	23	87	4q11-q13	ALB	C
4.47	9	14	88	4q11-q13	JPD	P
4.48	10	23	87	4q11-q13	STATH	P
4.49	4	18	97	4q11-q21	AIH2	P
4.5	2	2	90	4q12	GC, DBP	C
4.51	11	2	95	4q12	LGMD2E, SCG2	C
4.52	3	5	95	4q12	KDR	C
4.53	12	17	95	4q12	KIT, PBT	C
4.54	6	16	94	4q12	PAICS, AIRC	P
4.55	1	25	91	4q12	PDGFRA	C
4.56	5	2	94	4q12	POL2RB	P
4.57	6	16	94	4q12	PPAT, GPAT	P
4.58	10	6	92	4q12-q13	PF4	C
4.59	10	6	92	4q12-q13	PF4V1	C
4.6	10	6	92	4q12-q13	TGB2	P
4.61	10	15	94	4q12-q13.3	CENPC	P
4.62	3	29	90	4q13	HTN1	P
4.63	5	14	90	4q13	HTN2	P
4.64	1	2	95	4q13	UGT2B4	C
4.65	1	2	95	4q13	UGT2B9	P
4.66	1	2	95	4q13	UGT2B15	P

4.67	6	8	89	4q13-q21	AREG	P
4.68	10	1	95	4q13-q21	BTC	L
4.69	10	23	87	4q13-q21	DGI1	C
4.7	6	8	95	4q13-q21	ENA78	P
4.71	6	4	89	4q13-q21	IL8	P
4.72	11	20	95	4q13.1	STE, EST	P
4.73	9	12	93	4q13.3-q21.1	DCK	C
4.74	3	7	92	4q16.1	ADRA2C, ADRA2L2	C
4.75	6	8	95	4q2-q3	CLTB	P
4.76	4	18	97	4q21	AMBN	C
4.77	6	6	91	4q21	ANX3	P
4.78	2	18	96	4q21	DMP1	P
4.79	7	5	92	4q21	FGF5	C
4.8	12	4	90	4q21	GRO1, MGSA	C
4.81	8	22	91	4q21	GRO2, MIP2A	P
4.82	8	22	91	4q21	GRO3, MIP2B	P
4.83	3	27	89	4q21	IGJ	P
4.84	10	23	87	4q21	INP10	C
4.85	7	11	93	4q21	MLLT2, AF4	P
4.86	10	23	87	4q21-q23	GNPTA	P
4.87	1	8	97	4q21-q23	PARK1	P
4.88	7	8	96	4q21-q23	PKD2, PKD4	C
4.89	10	23	87	4q21-q24	FDH	C
4.9	9	9	90	4q21-q25	ADH5	C
4.91	9	12	93	4q21-q25	FECB	L
4.92	2	18	96	4q21-q25	IBSP	C
4.93	12	13	95	4q21-q25	RAP1GDS1	P
4.94	1	27	97	4q21-q25	SPP1, OPN	C
4.95	9	15	96	4q21.1-q21.2	AUF1, AUF1A	P
4.96	5	9	95	4q21.2	GNRHR	C
4.97	1	22	97	4q21.3	PTPN13	P
4.98	5	9	95	4q21.3-q22	SCNA, NACP	C
4.99	10	7	88	4q22	ADHC1@	C
4.1	9	14	89	4q22	ADH1	C
4.101	9	14	89	4q22	ADH2	C
4.102	9	14	89	4q22	ADH3	C
4.103	11	6	89	4q22	ADH4	P
4.104	10	17	96	4q22	ATH1	P
4.105	1	2	91	4q22-q23	PDHA2	P
4.106	1	3	96	4q22-q24	MTP	P
4.107	1	8	97	4q22-q26	SCHAD	P
4.108	12	19	96	4q23-q24	ADH7	P
4.109	10	4	93	4q23-q24	NFKB1	C
4.11	8	11	91	4q23-q25	LEF1	P

4.111	4	7	94	4q24	H2AZ	P
4.112	1	2	95	4q24-q25	CENPE	P
4.113	6	4	89	4q25	EGF	C
4.114	4	1	96	4q25	IF	C
4.115	8	30	95	4q25	IHGA	P
4.116	12	3	96	4q25-q26	RIEG, RIEG1, RGS	C
4.117	6	7	91	4q25-q27	ANK2	C
4.118	7	5	92	4q25-q27	FGF2, FGFB	C
4.119	11	7	95	4q25-q27	LQT4	P
4.12	9	28	96	4q26	CGT	P
4.121	7	9	90	4q26-q27	IL2	C
4.122	2	9	92	4q26-q28	ANX5, ENX2	C
4.123	8	24	92	4q27	CCNA, CCN1	C
4.124	4	26	92	4q28	FGC@	C
4.125	3	22	93	4q28	FGA	C
4.126	5	17	91	4q28	FGB	C
4.127	5	17	91	4q28	FGG	C
4.128	10	23	87	4q28-q31	ASMD	P
4.129	12	21	87	4q28-q31	FABP2	P
4.13	12	19	90	4q28-q31	GYPB, SS, MNS	C
4.131	4	30	91	4q28-q31	GYPE, GPE	P
4.132	4	10	90	4q28-q31	HCL2, RHC	P
4.133	10	23	87	4q28-q31	SF	C
4.134	1	1	96	4q28-q31	TYS	P
4.135	10	18	91	4q28.2-q31.1	GYPA, MN, GPA	C
4.136	4	25	96	4q31	HMG2	P
4.137	6	13	95	4q31	IL15	P
4.138	2	20	97	4q31	NPY2R	P
4.139	4	22	96	4q31	RNS4I	P
4.14	3	18	91	4q31	UCP	P
4.141	10	2	89	4q31-q32	TDO2, TPH2, TRPO	C
4.142	1	15	96	4q31.1	MLR, MCR	C
4.143	2	28	94	4q31.2	BRN3B	P
4.144	6	10	94	4q31.3-q32	NPY1R	P
4.145	10	12	94	4q32	GUC1A3, GUCSA3	P
4.146	1	11	95	4q32	GKP3, GK3	P
4.147	10	12	94	4q32	GUC1B3, GUCSB3	P
4.148	6	22	94	4q32-q33	AGA	C
4.149	3	1	94	4q32-q33	GRIA2, GLUR2	C
4.15	6	11	93	4q32-qter	ETFDH	P
4.151	4	10	90	4q32.1	HVBS6	P
4.152	9	28	96	4q34	GPM6A, M6A	P
4.153	2	18	96	4q34-q35	FACL2	C
4.154	2	18	96	4q34-q35	FAT	P

4.155	2	24	97	4q34-q35	HPGD	P
4.156	8	24	92	4q35	ANT1	C
4.157	2	9	92	4q35	F11	C
4.158	10	4	96	4q35	FSG1, FRG1	P
4.159	5	2	94	4q35	FSHMD1A, FSHD	C
4.16	2	9	92	4q35	HSPCAL2	P
4.161	4	30	91	4q35	KLK3	P
4.162	11	4	93	4q35.1	IRF2	P
4.163	10	22	95	4q35.1	MTNR1A	P
4.164	12	17	87	Chr.4	ATP1BL1	P
4.165	8	22	94	Chr.4	CCKAR	C
4.166	6	13	95	Chr.4	CLCN3	P
4.167	9	12	93	Chr.4	COX7A2	P
4.168	9	11	95	Chr.4	CPE	P
4.169	2	13	92	Chr.4	EDNRA	C
4.17	1	25	91	Chr.4	GTA, GGTB1	P
4.171	1	9	94	Chr.4	LAG5	P
4.172	10	4	91	Chr.4	MDF1	P
4.173	10	21	96	Chr.4	MANBA	L
4.174	10	19	88	Chr.4	PDE1A	P
4.175	4	21	97	Chr.4	PPID	P
4.176	6	10	94	Chr.4	PPP3CA, PPP2B, CALNA, CNA1	C
4.177	2	11	93	Chr.4	SEN, CSRB	P
4.178	10	23	87	Chr.4	TS13	P
4.179	1	2	95	Chr.4	UGT2B8	P
5.1	10	23	87	5pter-q11	RARS	P
5.2	1	11	93	5p15.3	ADCY2	C
5.3	11	28	94	5p15.3	SLC6A3, DAT1	C
5.4	3	28	95	5p15.3	SLC9A3, NHE3	C
5.5	1	4	96	5p15.2	DAP	P
5.6	11	12	96	5p15.1-p14.3	MYO10	P
5.7	11	2	95	5p15	SDH2, SDHF	P
5.8	12	9	91	5p15	SRD5A1	P
5.9	8	15	90	5p14	MLVI2	P
5.1	3	18	94	5p14	PMCHL1	P
5.11	9	14	95	5p14-p13	CDH12, CDHB	P
5.12	10	23	87	5p14-p13	HMGCS1	C
5.13	9	14	89	5p14-p13	ZNF4	P
5.14	1	1	96	5p14-p12	NPR3, ANPRC	P
5.15	1	9	96	5p13.1	PTGER2	P
5.16	10	14	95	5p13.1-p12	GDNF	C
5.17	6	21	91	5p13	C6	C
5.18	6	21	91	5p13	C7	C
5.19	6	21	91	5p13	C9	C

5.2	4	30	96	5p13	DOC2	P
5.21	2	11	93	5p13	IL7R	P
5.22	1	26	97	5p13	SCOT, OXCT	P
5.23	9	23	96	5p13	SKP2	P
5.24	1	8	95	5p13	SLC1A3, EAAT1	C
5.25	11	20	95	5p13-p12	GHR	C
5.26	12	2	94	5p13-p12	LIFR	P
5.27	11	7	89	5p13-p12	PRLR	P
5.28	10	23	87	5p13-cen	TARS	P
5.29	11	25	96	5p	CCAL1	C
5.3	2	29	88	5cen-q11	LARS	C
5.31	3	5	95	5q	ISL1	P
5.32	2	15	96	5q	SYT4	L
5.33	10	1	95	5q11	IL6ST	C
5.34	10	13	94	5q11-q12	CTLA3, HFSP	C
5.35	10	22	96	5q11-q12	MSH3	P
5.36	10	23	87	5q11-q13	ARSB	C
5.37	1	13	93	5q11.2	KFS	L
5.38	8	15	90	5q11.2-q13	HTR1A	C
5.39	2	9	92	5q11.2-q13.2	DHFR	C
5.4	3	5	95	5q11.2-q13.3	CRHBP	C
5.41	10	12	90	5q11.2-q13.3	SCZD1	L
5.42	8	24	92	5q12	CCNB1	C
5.43	10	13	94	5q12	PDE4D, DPDE3	C
5.44	4	24	96	5q12-q13	FKHL8	P
5.45	3	18	94	5q12-q13	PMCHL2	P
5.46	9	14	89	5q12-q13	ZNF5	P
5.47	12	4	95	5q12-q14	CSPG2	C
5.48	12	13	95	5q12-q14	EEF1B3	P
5.49	4	21	97	5q12.2-q13.3	GTF2H2	P
5.5	2	9	92	5q12.2-q13.3	SMA	C
5.51	1	6	97	5q12.2-q13.3	NAIP	P
5.52	3	3	97	5q12.2-q13.3	SMN1	C
5.53	3	3	97	5q12.2-q13.3	SMN2	P
5.54	11	4	93	5q13	F2R, CF2R	P
5.55	11	13	95	5q13	GPR11, PAR2	P
5.56	8	24	92	5q13	GRB1, PIK3R1	P
5.57	10	15	95	5q13	HEXB	C
5.58	3	22	93	5q13	MAP1B	C
5.59	9	15	96	5q13-q14	WGN1, ERVR	P
5.6	7	8	95	5q13-q14	XRCC4	C
5.61	9	7	90	5q13-q14.1	CRTL1	P
5.62	9	5	91	5q13-q23	RPS20A	P
5.63	1	2	95	5q13.3	CKMT2	C

5.64	1	21	97	5q13.3	RASA1, GAP	C
5.65	8	15	90	5q13.3-q14	HMGCR	C
5.66	4	1	96	5q14	GLRX, GRX	P
5.67	11	13	95	5q14	MEF2C	C
5.68	12	13	95	5q14	TFCOUP1, ERBAL1	P
5.69	2	28	94	5q14-q21	PAM	P
5.7	8	11	91	5q15-q21	CAST	P
5.71	8	24	92	5q15-q21	NEC1	P
5.72	8	21	92	5q21	MCC	C
5.73	8	24	92	5q21-q22	APC, GS, FPC	C
5.74	4	30	91	5q21-q22	FER, TYK3	C
5.75	1	17	96	5q21-q22	MANA2	P
5.76	5	27	93	5q21-q22	SRP19	C
5.77	12	4	90	5q21-q23	CAMK4	P
5.78	9	28	96	5q22	U2AF1RS1	P
5.79	2	27	92	5q22-q23	D5S346, DP1	P
5.8	8	24	92	5q22.3-q31.3	LGMD1	P
5.81	11	4	93	5q23	DTS, HBEGF, HEGFL	C
5.82	3	18	94	5q23-q31	FBN2, CCA	P
5.83	12	16	93	5q23-q31	ITGA2, CD49B, BR	P
5.84	4	7	97	5q23-q31	NEUROD3	P
5.85	7	11	93	5q23-q31	PPP2CA	P
5.86	10	28	96	5q23-q31	UBE2B, RAD6B	P
5.87	10	16	95	5q23-q35	ILLBP	P
5.88	11	20	95	5q23.3	SLC12A2, NKCC1	P
5.89	4	23	96	5q23.3-q31.1	LMNB1	P
5.9	11	5	92	5q23.3-q31.2	LOX	C
5.91	3	22	93	5q31	CDC25C	C
5.92	9	14	95	5q31	CTNNA1	C
5.93	6	10	94	5q31	FGF1, FGFA	C
5.94	8	11	91	5q31	GRL	C
5.95	3	22	93	5q31	IL13	P
5.96	11	12	96	5q31	SEPP1	P
5.97	10	14	95	5q31	TCEB1L	P
5.98	3	3	97	5q31	TGFBI, CSD2, CDGG1, CSD	C
5.99	10	12	90	5q31-q32	PDGFRB, PDGFR	C
5.1	9	14	95	5q31-q33	CDX1	C
5.101	4	24	96	5q31-q33	BHR1	P
5.102	12	2	92	5q31-q33	DFNA1, LFHL1	P
5.103	10	23	87	5q31-q33	RPS14, EMTB	C
5.104	10	7	96	5q31-q33	SM1	P
5.105	7	11	93	5q31.1	CD14	C
5.106	7	11	93	5q31.1	CSF2, GMCSF	C
5.107	7	11	93	5q31.1	EGR1	C

5.108	7	26	95	5q31.1	IGES	P
5.109	7	11	93	5q31.1	IL3	C
5.11	7	11	93	5q31.1	IL4	C
5.111	3	22	93	5q31.1	IL5	C
5.112	7	11	93	5q31.1	IL9	C
5.113	5	14	96	5q31.1	IRF1, MAR	C
5.114	7	8	95	5q31.1	MOT2	P
5.115	9	5	91	5q31.1	TCF7	P
5.116	3	26	96	5q31.1-q31.2	HSPA4	P
5.117	8	24	92	5q31.1-q33.1	GABRG2	C
5.118	8	20	92	5q31.1-q33.1	IL12B, NKSF2	C
5.119	4	7	94	5q31.1-q35	GABRA6	P
5.12	2	3	97	5q31.2	PRKCNH1	P
5.121	6	10	94	5q31.2-q31.3	MGAT1, GLYT1	C
5.122	1	23	97	5q31.2-q34	PDE6A, PDEA	C
5.123	7	11	93	5q31.3-q32	SPARC, ON	C
5.124	2	28	94	5q31.3-q33.1	GM2A	C
5.125	6	10	94	5q32	CD74, DHLAG	C
5.126	7	8	96	5q32	GLRA1, STHE	C
5.127	10	13	94	5q32	ITK, EMT	C
5.128	1	30	96	5q32-q33.1	DTD, DTDST, D5S1708	C
5.129	1	30	96	5q32-q33.1	GPX3	C
5.13	6	11	93	5q32-q33.1	TCOF1, MFD1	C
5.131	12	13	95	5q32-q33.3	HSST	C
5.132	6	13	95	5q32-q33.3	MFAP3	P
5.133	4	12	92	5q32-q34	ADRB2	C
5.134	2	1	90	5q32-q34	ANX6, CBP68	C
5.135	7	11	93	5q33	ADRA1B	C
5.136	3	1	94	5q33	GRIA1, GLUR1	C
5.137	10	22	96	5q33	SGD	P
5.138	10	17	96	5q33-q34	LGMD2F	P
5.139	10	23	87	5q33-qter	F12, HAF	C
5.14	12	2	91	5q33-qter	RPS17L1, RPS17A	P
5.141	9	5	91	5q33-qter	RPS20B	P
5.142	1	26	97	5q33.1-qter	LCP2, SLP76	P
5.143	1	1	96	5q33.2	HMMR	P
5.144	1	2	91	5q33.2-q33.3	CSF1R, FMS	C
5.145	6	13	95	5q34	CSX	C
5.146	12	14	95	5q34	DUSP1, CL100, PTPN10	C
5.147	4	24	96	5q34	FKHL10	P
5.148	11	28	94	5q34	SLC2A3P, GLUT3P1, GLUT6	P
5.149	7	5	92	5q34-q35	FLT4	C
5.15	1	12	95	5q34-q35	GABRB2	P
5.151	4	7	94	5q34-q35	GABRA1	C

5.152	1	24	95	5q34-q35	MSX2, CRS2, HOX8	C
5.153	2	28	94	5q35	CANX	P
5.154	10	23	87	5q35	CHR	C
5.155	10	22	95	5q35	GPRK6, GRK6	P
5.156	9	28	96	5q35.2	HK3	P
5.157	9	26	96	5q35	LTC4S	P
5.158	6	29	94	5q35	NPM1	P
5.159	3	18	94	5q35	NPT2	P
5.16	8	24	92	5q35.1	DRD1	C
5.161	8	24	92	5q35.1-qter	FGFR4	C
5.162	3	25	96	5q35.3	HNRPH1	P
5.163	9	29	95	Chr.5	CKN1	P
5.164	3	6	94	Chr.5	DBN1	P
5.165	3	29	89	Chr.5	ERBAL3, EAR3	P
5.166	10	23	87	Chr.5	HARS	P
5.167	10	16	92	Chr.5	ITGA1, VLA1	L
5.168	6	28	88	Chr.5	SPINK1, PSTI	P
5.169	4	28	90	Chr.5	TRP3	P
5.17	4	28	90	Chr.5	TRT1	P
5.171	9	14	89	Chr.5	ZNF3	P
6.1	10	1	95	6pter-p24	ELANH2, EI	C
6.2	3	8	91	6pter-p21.1	CLPS	C
6.3	7	11	91	6pter-p21	DSP	P
6.4	8	21	91	6pter-p21	ITPR3	C
6.5	10	4	91	6pter-q12	NMOR2, NQO2	P
6.6	9	1	95	6p24.3	OFC1, CL	C
6.7	4	24	96	6p25	FKHL7	P
6.8	1	9	96	6p25	PI6	C
6.9	6	4	90	6p25-p24	F13A1, F13A	C
6.1	5	30	91	6p25-p24	ME2	P
6.11	1	26	97	6p24	TFAP2A, AP2TF	C
6.12	6	6	91	6p24-p23	EDN1	C
6.13	11	3	92	6p24-p22.3	HIVEP1, ZNF40	P
6.14	12	13	96	6p23	ATX1, SCA1	C
6.15	6	16	94	6p23	D6S231E, DEK	P
6.16	3	18	94	6p23	GMPR	C
6.17	8	3	95	6p23	SCZD3	P
6.18	6	16	94	6p23	SOX4	P
6.19	3	27	90	6p23-p22.3	FIM1	P
6.2	2	28	94	6p23-p21.3	NPT1	P
6.21	10	23	87	6p23-q12	HYS, MEA	P
6.22	10	23	87	6p23-q12	INSL	P
6.23	9	22	96	6p23-q12	TRMI1, TRM1, RNTMI	P
6.24	6	7	91	6p23-q12	TRM2	P

6.25	9	22	96	6p22.3-p21.1	TRAN	P
6.26	9	22	96	6p22.3-p21.1	TRM1	P
6.27	9	22	96	6p22.3-p21.1	TRR3	P
6.28	8	15	90	6p22.2-p21.3	PRL	C
6.29	12	13	95	6p22.2-p21.1	H1F1	P
6.3	7	11	93	6p22.2-p21.1	H1F3	C
6.31	2	23	95	6p22	E2F3	P
6.32	6	13	95	6p22-p21.3	ID4	P
6.33	4	7	94	6p22-p21.3	MOG	P
6.34	6	6	91	6p22-p21	BCKDHB, E1B	C
6.35	12	4	96	6p22-p11	PXAAA1	P
6.36	1	8	95	6p21.31	PPP1R2P	C
6.37	1	11	95	6p21.3	AGER, RAGE	P
6.38	11	6	92	6p21.3	AS, ANS	P
6.39	4	27	90	6p21.3	ASD2	P
6.4	10	23	87	6p21.3	BF	C
6.41	12	29	89	6p21.3	C2	C
6.42	4	2	90	6p21.3	C4A, C4S	C
6.43	4	10	90	6p21.3	C4B, C4F	C
6.44	3	5	95	6p21.3	COL11A2	C
6.45	4	10	97	6p21.3	CREBL1	P
6.46	10	11	96	6p21.3	CSNK2B	C
6.47	5	18	90	6p21.3	CYP21, CA21H	C
6.48	8	17	92	6p21.3	CYP21P, CYP21A	P
6.49	1	23	90	6p21.3	D6S51E, BAT2	P
6.5	1	23	90	6p21.3	D6S52E, BAT3	P
6.51	1	23	90	6p21.3	D6S54E, BAT4	P
6.52	1	23	90	6p21.3	D6S81E, BAT1	P
6.53	4	10	90	6p21.3	D6S82E, BAT5	P
6.54	3	20	97	6p21.3	D6S207E, HLA-HA2	P
6.55	9	23	96	6p21.3	D6S2244E, HKE4	P
6.56	9	23	96	6p21.3	D6S2245E, HKE6	P
6.57	1	11	95	6p21.3	DYLX2, DLX2	P
6.58	1	12	93	6p21.3	GLYS1	P
6.59	9	14	95	6p21.3	GNL1, HSR1	P
6.6	4	21	97	6p21.3	GTF2H4	P
6.61	10	23	87	6p21.3	HFE	C
6.62	12	20	96	6p21.3	HXBL, TNX	P
6.63	3	27	90	6p21.3	MHC	C
6.64	10	23	87	6p21.3	HLA-A	C
6.65	3	15	91	6p21.3	HLA-B	C
6.66	3	15	91	6p21.3	HLA-C	C
6.67	5	24	90	6p21.3	HLA-CDA12, HLAF	C
6.68	1	8	95	6p21.3	HLA-DMA, RING6	P

6.69	1	8	95	6p21.3	HLA-DMB, RING7	P
6.7	7	6	95	6p21.3	HLA-DOB	P
6.71	10	23	87	6p21.3	HLA-DPA1, HLADP	C
6.72	10	28	93	6p21.3	HLA-DPB1	C
6.73	9	9	92	6p21.3	HLA-DQA1	C
6.74	10	18	96	6p21.3	HLA-DQB1	C
6.75	5	15	89	6p21.3	HLA-DRA	C
6.76	10	23	87	6p21.3	HLA-DNA	C
6.77	6	8	89	6p21.3	HLA-E	P
6.78	3	15	92	6p21.3	HLA-G	C
6.79	8	12	91	6p21.3	HLA-H	P
6.8	5	30	91	6p21.3	HMAA	P
6.81	5	30	91	6p21.3	HMAB	P
6.82	12	18	91	6p21.3	HSPA1	C
6.83	12	18	91	6p21.3	HSPA1L	P
6.84	1	8	93	6p21.3	IDDM1	L
6.85	4	24	88	6p21.3	IGLP1	C
6.86	4	24	88	6p21.3	IGLP2	C
6.87	3	9	92	6p21.3	IGAT	P
6.88	10	23	87	6p21.3	ISCW	P
6.89	7	11	93	6p21.3	LMP2, RING12	C
6.9	2	11	93	6p21.3	LMP7, RING10	C
6.91	12	3	96	6p21.3	LST1	P
6.92	9	22	96	6p21.3	LTA, TNFB	P
6.93	1	27	97	6p21.3	LTB, TNFC	P
6.94	12	14	95	6p21.3	MICA	P
6.95	10	23	87	6p21.3	MLRW	P
6.96	1	7	95	6p21.3	MLN	C
6.97	3	5	95	6p21.3	NEP	P
6.98	2	19	97	6p21.3	NEU	C
6.99	3	6	96	6p21.3	NFKBIL1	P
6.1	12	9	91	6p21.3	NFYA	P
6.101	7	9	95	6p21.3	OLFR2	P
6.102	9	12	93	6p21.3	OTF3, OCT3	C
6.103	9	12	96	6p21.3	PBX2, HOX12, G17	P
6.104	10	23	87	6p21.3	PDB	L
6.105	10	23	87	6p21.3	PLT1	C
6.106	10	19	88	6p21.3	RDBP	P
6.107	12	3	96	6p21.3	RING3	P
6.108	1	1	95	6p21.3	RP14	P
6.109	12	14	95	6p21.3	RPS18	P
6.11	10	23	87	6p21.3	RWS	L
6.111	3	22	93	6p21.3	RXRB	C
6.112	3	22	93	6p21.3	TAP1, RING4, PSF1	C

6.113	10	13	94	6p21.3	TAP2, RING11, PSF2	C
6.114	1	1	96	6p21.3	TCF19, SC1	P
6.115	9	22	96	6p21.3	TNF, TNFA	P
6.116	7	11	93	6p21.3	TUBB	C
6.117	12	4	95	6p21.3	ZNF173	P
6.118	9	16	88	6p21.3-p21.2	CP20	L
6.119	12	4	95	6p21.3-p21.2	CSBP1	P
6.12	3	15	91	6p21.3-p21.2	GLO1	C
6.121	10	23	87	6p21.3-p21.2	LAP	L
6.122	11	5	92	6p21.3-p21.2	TCP11, D6S230E	P
6.123	11	5	92	6p21.3-p21.2	ZNF76, D6S229E	P
6.124	2	4	89	6p21.3-p21.1	B144	P
6.125	3	27	90	6p21.3-p21.1	PGC	C
6.126	8	12	91	6p21.3-cen	TCTE1	P
6.127	11	6	92	6p21.2	PIM1	C
6.128	10	17	95	6p21.2	CDKN1A, WAF1, CIP1, CDKN1	C
6.129	1	16	96	6p21.2-p21.1	MEP1A	C
6.13	9	23	96	6p21.2-p21.1	PPARD, NUC1	P
6.131	12	4	96	6p21.2-p11	EJM1, JME	L
6.132	3	5	95	6p21.1	GUCA1, GCAP	P
6.133	1	7	95	6p21.1-p12	PKHD1, ARPKD	C
6.134	3	3	97	6p21.2-p12	PAFAH2	C
6.135	2	2	96	6p21.1-p11	RHAG, RH50A	C
6.136	10	13	94	6p21.1-cen	RDS, RP7	C
6.137	1	11	95	6p21	CBFA1, PEBP2A1, AML3	P
6.138	3	5	95	6p21	CCD	C
6.139	7	12	92	6p21	CCND3	C
6.14	5	9	95	6p21	GLP1R	P
6.141	10	1	95	6p21	HMGIY	P
6.142	5	30	91	6p21	MUT, MCM	C
6.143	9	15	96	6p21	NTRK4	P
6.144	12	14	95	6p21	SKIV2L, SKI2, SKI2W	P
6.145	10	1	95	6p21	TCFEB	L
6.146	2	18	96	6p21	ZNF165	P
6.147	7	13	89	6p21-qter	TPX1	P
6.148	3	6	94	6p12.2	GSTA1	P
6.149	12	6	91	6p12.2	GSTA2, GST2	C
6.15	1	26	95	6p12	D6S1101, DMH	P
6.151	12	9	95	6p12	GLCLC	C
6.152	7	5	92	6p12	HNRPG	P
6.153	1	26	97	6p12	TFAP2B	P
6.154	8	20	96	6p12	VEGF	C
6.155	3	18	94	6p12	HSPCB, HSPC2	C
6.156	10	1	95	6p12-p11.1	PRIM2A	P

6.157	10	1	95	6p12-p11.1	PRIM2B	P
6.158	3	22	93	6p12-p11	BPAG1	C
6.159	3	29	89	6p12-p11	KRAS1P	C
6.16	10	23	87	6p	CSCI	L
6.161	1	28	93	6p	ICS1	L
6.162	9	29	96	6p	NYS2, NYSA	P
6.163	1	4	93	6p	PUJO	P
6.164	9	28	95	6cen-q14	STGD3	P
6.165	4	10	97	6q	MPSH	P
6.166	10	1	95	6q	PBCRA, CRAPB	P
6.167	10	23	87	6q12	ME1	C
6.168	10	23	87	6q12	PGM3	C
6.169	7	12	92	6q12-q14	D6S228E, COL9A1L	P
6.17	1	25	93	6q12-q21	DBI	I
6.171	10	4	93	6q13	COL9A1	C
6.172	8	20	92	6q13	HTR1B	P
6.173	1	26	93	6q13-q15	OA3, OAR	L
6.174	8	11	91	6q14-q15	CNR	P
6.175	10	13	94	6q14-q15	HTR1E	P
6.176	3	1	94	6q14-q15	M6P2	P
6.177	7	10	95	6q14-q15	SIASD, SLD	C
6.178	8	13	91	6q14-q15	TPBG	P
6.179	11	6	92	6q14-q16.2	MCDR1	P
6.18	5	22	92	6q14-q21	GABRR1	P
6.181	5	22	92	6q14-q21	GABRR2	P
6.182	6	10	94	6q14-q21	NT5	C
6.183	5	9	95	6q16	POU3F2, OCT7	P
6.184	4	10	90	6q21	BKMA1	P
6.185	7	10	95	6q21	CCNC	C
6.186	11	6	94	6q21	CD24	P
6.187	12	14	95	6q16	EDDR1	P
6.188	1	4	93	6q21	FYN	P
6.189	2	19	97	6q21	IDDM15	P
6.19	11	6	94	6q21	LAMA4, LAMA3	P
6.191	11	20	95	6q21-q22	AMD1	C
6.192	6	12	95	6q21-q22.1	GPR6	C
6.193	7	11	93	6q21-q22.3	COL10A1	C
6.194	7	10	95	6q21-q23.2	GJA1, CX43	C
6.195	8	11	91	6q21-qter	NMBR	P
6.196	5	29	91	6q21.1-q23	CGA	C
6.197	8	29	91	6q21.3	NKS1, EC1	P
6.198	3	18	94	6q22	MAK	L
6.199	10	23	87	6q22	MYB	C
6.2	2	10	97	6q22	PREP	P

6.201	1	4	93	6q22	ROS1, MCF3	C
6.202	11	15	94	6q22-q23	LAMA2, LAMM	C
6.203	12	14	95	6q22-q23	PDNP1, NPPS, M6S1, PCA1	P
6.204	9	15	96	6q22-q22	TNDM	P
6.205	9	12	93	6q22.1	PLB	P
6.206	6	29	94	6q22.2	MACS, PKCSL	C
6.207	1	23	96	6q22.3-q23.1	HPFH	P
6.208	10	17	96	6q22.2-q23.3	DFNA10	P
6.209	10	9	96	6q22.3-q24	PCMT1	P
6.21	10	23	87	6q23	ARG1	P
6.211	1	25	93	6q23-q24	HIVEP2	P
6.212	2	2	90	6q23-q24	IFNGR1	C
6.213	10	1	95	6q23-q25	MELF	P
6.214	7	11	93	6q23.1	CTGF, NOV2	P
6.215	7	8	96	6q24	UTRN, DMDL, DRP1	C
6.216	10	13	94	6q24-q25	OPRM1	C
6.217	6	8	95	6q24-q27	IDDM5	P
6.218	8	28	92	6q24-q27	MAS1	C
6.219	12	29	89	6q25-q26	RCD1	L
6.22	6	29	94	6q25-q26	VIL2, CVL	C
6.221	10	22	95	6q25-q27	IDDM8	P
6.222	3	28	88	6q25-qter	FUCA2	C
6.223	11	8	94	6q25.1	ESR	C
6.224	11	6	92	6q25.3	SOD2	C
6.225	9	28	96	6q25.3-q26	ACAT2	P
6.226	3	25	96	6q25.3-q26	HNRPH2	P
6.227	9	28	96	6q25.3-q26	TCP1	C
6.228	1	5	96	6q26	IGF2R, MPRI	C
6.229	6	29	94	6q26	PLG	C
6.23	9	12	93	6q26-q27	OVCS	P
6.231	11	22	88	6q26-q27	VIP	C
6.232	5	15	89	6q27	LPA	C
6.233	5	18	94	6q27	MLLT4, AF6	C
6.234	12	14	95	6q27	PDCD2	P
6.235	9	2	96	6q27	T, TFT	P
6.236	11	4	94	6q27	TBP	C
6.237	8	21	92	6q27	TCTE3	P
6.238	11	8	91	6q27	THBS2	P
6.239	8	28	92	6q27	TCP10	C
6.24	10	23	87	Chr.6	ADCP1	I
6.241	10	23	87	Chr.6	BEVI	C
6.242	2	11	93	Chr.6	BMP5	P
6.243	2	11	93	Chr.6	BMP6	P
6.244	11	4	93	Chr.6	COL12A1L	P

6.245	6	17	94	Chr.6	DGPT	L
6.246	10	23	87	Chr.6	FEA	L
6.247	5	18	94	Chr.6	GRIK2, GLUR6	P
6.248	11	4	91	Chr.6	LAKL	P
6.249	10	23	87	Chr.6	MRBC	P
6.25	10	23	87	Chr.6	P	P
6.251	10	13	94	Chr.6	PBCA	P
6.252	10	23	87	Chr.6	TS546	P
6.253	8	23	90	Chr.6	VGR1	L
7.1	9	12	93	7pter-p22	PRKAR1B	P
7.2	8	16	90	7pter-p14	GCTG	P
7.3	3	15	92	7pter-p13	CALML1	P
7.4	6	7	91	7p22-p21	ZNF12	P
7.5	12	4	90	7p22-p15	RALA	P
7.6	7	10	95	7p22	ETV1	P
7.7	2	20	97	7p22	ICA1	P
7.8	11	6	95	7p22	JTV1	P
7.9	6	8	95	7p22	MTH1	P
7.1	8	28	92	7p22	PDGFA	C
7.11	1	7	95	7p22	PMSL2, PMS2	P
7.12	4	7	94	7p22	RPA3	P
7.13	6	13	95	7p22.1-p21.3	MEOX2	P
7.14	3	22	93	7p21.3-p21.2	CRS, CSO	C
7.15	1	7	95	7p21	AHR	C
7.16	5	24	90	7p21	IL6, IFNB2, BSF2	C
7.17	2	20	97	7p21	ACS3, SCS, TWIST	C
7.18	4	7	94	7p21-p15	MDDC	P
7.19	2	3	97	7p21-p13	BPES2	P
7.2	11	22	88	7p15.2-p15.1	PSP	C
7.21	5	9	95	7p15.1	NPY	C
7.22	6	11	93	7p15.1-p13	RP9	P
7.23	10	13	94	7p15	HNRPA2B1	P
7.24	1	23	96	7p15	DFNA5	P
7.25	2	15	96	7p15	GARS	P
7.26	8	21	91	7p15	MYCLK1	P
7.27	6	13	95	7p15	SP4	P
7.28	1	9	96	7p15-p14	GHRHR	C
7.29	2	26	93	7p15-p14.2	HOXA@, HOX1@	C
7.3	2	26	93	7p15-p14.2	HOXA1, HOX1F	L
7.31	2	26	93	7p15-p14.2	HOXA3, HOX1E	L
7.32	2	26	93	7p15-p14.2	HOXA4, HOX1D	C
7.33	2	26	93	7p15-p14.2	HOXA5, HOX1C	C
7.34	2	26	93	7p15-p14.2	HOXA6, HOX1B	C
7.35	2	26	93	7p15-p14.2	HOXA7, HOX1A	C

7.36	2	26	93	7p15-p14.2	HOXA9, HOX1G	C
7.37	2	26	93	7p15-p14.2	HOXA10, HOX1H	C
7.38	2	26	93	7p15-p14.2	HOXA11, HOX1I	C
7.39	2	3	97	7p15-p14.2	HOXA13, HOX1J	C
7.4	3	23	95	7p15-p14	EVX1	P
7.41	2	9	92	7p15-p14	TCRG	C
7.42	6	29	92	7p15-p13	GCK	P
7.43	2	4	89	7p15-p13	INHBA	P
7.44	7	11	93	7p15-p12	ACTB	C
7.45	1	21	97	7p15-p11.2	WTSL	P
7.46	6	11	91	7p15-q22.1	ERV3	P
7.47	1	7	95	7p14	ADCYAP1R1, PACAPR	P
7.48	11	4	93	7p14	AQP1, CHIP28, CO	C
7.49	11	13	96	7p14	CMT2D	P
7.5	3	26	95	7p14-p13	AMPH	P
7.51	11	20	95	7p14-p13	OGDH	C
7.52	10	13	94	7p14-p12	AOAH	P
7.53	2	9	92	7p14-p12	IGFBP1	C
7.54	2	9	92	7p14-p12	IGFBP3	C
7.55	1	1	96	7p14-cen	BLVRA	C
7.56	3	3	97	7p13	GLI3	C
7.57	9	19	94	7p13-p12	ADCY1	C
7.58	3	27	90	7p13-p12.3	PGAM2, PGAMM	C
7.59	10	1	95	7p13-p11.2	PPIA	P
7.6	2	23	92	7p13-p11	OCM	P
7.61	10	23	87	7p13-q22	MDH2	C
7.62	2	1	90	7p12.3-p12.1	EGFR	C
7.63	7	11	93	7p12-cen	TTIM1	C
7.64	10	12	90	7p12-q21	PHKG1	P
7.65	3	21	94	7p11.4-cen	ARAF2, PKS1	C
7.66	10	23	87	7p11-q11.2	PKS1	P
7.67	7	5	92	7p11	DDC	C
7.68	10	23	87	7p	GHS	L
7.69	10	1	95	7p	SMAD1	P
7.7	12	14	95	7p	TCF6L1, MTTF1	P
7.71	5	25	88	7cen-q11.2	ASL	C
7.72	8	11	91	7q	HRX	P
7.73	1	11	95	7q	NFE2U	L
7.74	8	11	91	7q	PTC	P
7.75	1	18	95	7q11.2	CD36	P
7.76	9	12	93	7q11.2	ELN	C
7.77	9	9	90	7q11.2	POR	P
7.78	9	23	96	7q11.2	SKP1A	P
7.79	9	12	93	7q11.2	ZNF117	P

7.8	9	14	95	7q11.2-q21	CCM1, CAM	C
7.81	10	6	92	7q11.2-q21.3	EEC	L
7.82	9	14	95	7q11.21	GABPB1, E4TF1B	P
7.83	9	3	96	7q11.23	LIMK1	P
7.84	10	12	90	7q11.23	NCF1	P
7.85	1	9	95	7q11.23	PTPN12, PTPG1	P
7.86	3	6	95	7q11.23	RFC2	P
7.87	5	22	92	7q11.23	ZWS1	C
7.88	6	11	91	7q21	EPO	C
7.89	6	1	88	7q21	GNAI1	C
7.9	10	13	94	7q21-q22	CACNL2A	C
7.91	12	11	91	7q21-q22	TAC2, NKNA	C
7.92	9	28	96	7q21-q22	ZNF36, KOX18	P
7.93	9	28	96	7q21-q22	ZNF38, KOX25	P
7.94	12	9	91	7q21-q27	GNB2	C
7.95	3	29	89	7q21-q31	ASNS	C
7.96	8	11	91	7q21.1	HGF	C
7.97	8	22	90	7q21.1	PGY1, MDR1	C
7.98	1	28	88	7q21.1	PGY3, MDR3	P
7.99	6	4	89	7q21.1	SRI, SCN	P
7.1	8	21	91	7q21.11	GUSB	C
7.101	3	28	96	7q21.2-q21.3	SHFM1, SHFD1, SHSF1	C
7.102	11	20	95	7q21.3	CALCR, CRT	C
7.103	1	7	95	7q21.3-q22	PCOLCE	P
7.104	4	7	97	7q21.3-q22	PAI1, PLANH1	C
7.105	10	17	96	7q21.3-q22.1	DSS1	P
7.106	6	13	95	7q21.3-q22.1	MCM2	P
7.107	9	20	95	7q21.3-q22.1	NPTX2	P
7.108	8	28	92	7q22	ACHE, YT	C
7.109	3	22	93	7q22	CUTL1	P
7.11	10	13	94	7q22	DLX5	C
7.111	1	8	95	7q22	DLX6	P
7.112	3	15	92	7q22	H2A	P
7.113	3	15	92	7q22	H2B	P
7.114	8	11	91	7q22	MUC3	P
7.115	9	22	96	7q22	PON1, PON, ESA	C
7.116	5	23	95	7q22	PRKAR2B	C
7.117	7	10	95	7q22	RL, RELN	C
7.118	9	15	96	7q22	TFPI2	P
7.119	2	5	97	7q22-q31.1	DRA, CLD	C
7.12	9	14	89	7q22-q32	G7P1	P
7.121	4	29	90	7q22-qter	NM, GP130	C
7.122	3	22	93	7q22-qter	PAX4	C
7.123	3	18	94	7q22.1	AZGP1, ZAG	C

7.124	10	8	96	7q22.1	COL1A2	C
7.125	12	14	95	7q22.1	CYP3A4	C
7.126	10	16	95	7q3	CMH6	P
7.127	10	2	95	7q31	DFNB4	P
7.128	7	4	88	7q31	MET	C
7.129	1	28	97	7q31	PDS	C
7.13	11	13	95	7q31	SPAM1	P
7.131	6	10	94	7q31	WNT2, INT1L1	P
7.132	12	4	90	7q31-q32	ABP1	P
7.133	6	11	91	7q31-q32	DLD, LAD, PHE3	C
7.134	6	11	91	7q31-q34	BPGM	P
7.135	2	2	95	7q31-q35	RP10	C
7.136	10	23	87	7q31-qter	ODCP, ODC2	C
7.137	1	21	97	7q31.1-q31.2	NRCAM	P
7.138	8	11	91	7q31.1-q31.3	LAMB1	C
7.139	10	23	92	7q31.2	CFTR, CF	C
7.14	2	19	97	7q31.2-q31.3	CAPZA2, CAPPA2	P
7.141	2	19	97	7q31.3	LEP, OB	C
7.142	7	10	95	7q31.3	PTPRZ, PTP18	P
7.143	3	18	94	7q31.3-q32	BCP, CBT	C
7.144	1	7	95	7q31.3-q32	IMPDH1	P
7.145	11	12	96	7q32	MEST, PEG1	P
7.146	4	1	96	7q32	NRF1	C
7.147	6	10	94	7q32-q35	FLN2, ABPA	C
7.148	12	28	89	7q32-q36	EPHT	C
7.149	7	13	89	7q32-q36	PIP	P
7.15	6	11	91	7q32-qter	CPA1	C
7.151	10	8	96	7q32-qter	PRSS1, TRY1	C
7.152	7	10	95	7q32.1	SLOS, SLO	P
7.153	1	5	93	7q33	CALD1, CDM	P
7.154	7	11	93	7q33	KEL	C
7.155	9	27	94	7q33	PTN, NEGF1	C
7.156	12	31	96	7q33-q35	TIM	P
7.157	7	11	93	7q34	BRAF	C
7.158	1	18	96	7q34	SSBP	P
7.159	11	16	94	7q34	TBXAS1	C
7.16	1	4	93	7q35	ALDR1	P
7.161	8	30	95	7q35	CLCN1	P
7.162	10	8	96	7q35	PCTT	C
7.163	4	29	90	7q35	TCRB	C
7.164	8	11	91	7q35-q36	CHRM2	C
7.165	1	23	90	7q35-q36	D7S437, MS3315	P
7.166	5	9	95	7q35-q36	HERG, LQT2	C
7.167	11	28	94	7q35-q36	SLC4A2, AE2, EPB3L1	P

7.168	10	13	94	7q36	CDK5	P
7.169	3	27	90	7q36	EN2	P
7.17	10	4	93	7q36	HPE3, HLP3	C
7.171	10	4	91	7q36	HPFH2	L
7.172	3	18	94	7q36	NOS3	C
7.173	9	28	96	7q36	RHEB2	P
7.174	9	1	95	7q36	SCRA1	P
7.175	12	13	96	7q36	SHH	P
7.176	5	18	94	7q36	TPT1	C
7.177	7	23	96	7q36.1	HTR5A	P
7.178	2	14	95	7q36.1	XRCC2	C
7.179	10	23	87	Chr.7	DIA2	L
7.18	9	12	93	Chr.7	DPP6	P
7.181	1	20	97	Chr.7	EPIM	P
7.182	12	29	89	Chr.7	FPSL2	P
7.183	10	23	87	Chr.7	GCF1	P
7.184	12	14	95	Chr.7	HTK	P
7.185	10	23	87	Chr.7	NHCP2	P
7.186	12	4	95	Chr.7	POLD2	P
7.187	11	19	96	Chr.7	UBE2H, UBCH2, UBC8	P
7.188	10	23	87	Chr.7	UP	C
7.189	3	22	93	Chr.7	ZP3A	P
7.19	3	22	93	Chr.7	ZP3B	P
8.1	10	13	94	8pter-p22	EPMR	P
8.2	2	11	96	8pter-p21	DEF5	P
8.3	2	11	96	8pter-p21	DEF6	P
8.4	10	8	88	8p23.3-p23.1	F7R, F7E	C
8.5	11	20	95	8p23.1-p21.3	AAC1, NAT1	P
8.6	11	20	95	8p23.1-p21.3	AAC2, NAT2	P
8.7	6	17	94	8p23.1-q22	DGPT	P
8.8	9	29	96	8p23.1-p22	GATA4	C
8.9	10	23	92	8p23	CRS1C	L
8.1	5	24	90	8p23	DEF1, MRS	P
8.11	5	11	95	8p23-p22	BLK	P
8.12	7	12	92	8p22	CTSB, CPSB	C
8.13	3	22	93	8p22	LPL, LIPD	C
8.14	3	22	93	8p22	MSR1	C
8.15	9	18	96	8p22	N33	P
8.16	1	11	95	8p22-p21.3	PCM1	P
8.17	4	17	97	8p22-p11.2	FAK2	P
8.18	7	13	93	8p22-p11	HGL, HRGA	C
8.19	11	4	93	8p22-q11	FNTA	P
8.2	9	29	96	8p21.3	SLC18A1, VMAT1, VAT1, CGAT	P
8.21	11	20	95	8p21.1	EPB49, DMT	P

8.22	10	23	87	8p21.1	GSR	C
8.23	12	13	96	8p21.1	GULO, GULOP	P
8.24	9	14	92	8p21	ADRA1C	P
8.25	11	4	93	8p21	BMP1	C
8.26	1	2	91	8p21	NEFL	C
8.27	10	18	96	8p21	PNOC, PPNOC	P
8.28	3	1	94	8p21	SFTP2	C
8.29	6	11	93	8p21-p12	CLU, CLI, SGP2, TRPM2	C
8.3	5	14	95	8p21-p12	EPHX2	P
8.31	3	14	96	8p21-p12	GTF2E2	P
8.32	6	12	92	8p21-p11.2	LHRH, GNRH	P
8.33	12	17	87	8p12	PLAT, TPA	C
8.34	3	6	94	8p12-p11.2	ADRB3	P
8.35	11	5	95	8p12-p11.2	GPR9	P
8.36	7	13	93	8p12-p11.2	PPP2CB	C
8.37	2	18	96	8p12-p11.2	WRN	C
8.38	11	4	93	8p12-p11	IDO	C
8.39	8	11	91	8p12-q11.2	CALB1	P
8.4	3	1	94	8p12-q12	MLVAR, GLVR2	C
8.41	12	30	94	8p12-q13	SPG5A	P
8.42	6	11	91	8p11.2	ANK1, SPH2	C
8.43	6	10	94	8p11.2	CHRNB3	C
8.44	3	8	95	8p11.2	POLB	C
8.45	2	12	96	8p11.2	STAR	P
8.46	11	20	95	8p11.2-p11.1	CEBPD	C
8.47	11	20	95	8p11.2-p11.1	FGFR1, FLT2	C
8.48	10	22	96	8p11	MOZ	P
8.49	8	21	91	8p11-q21	RP1	P
8.5	11	25	96	8q	CCAL2	P
8.51	10	27	93	8q	EBN2	P
8.52	10	23	87	8q	GPB	C
8.53	10	28	93	8q11	HYRC1, DNPK1	C
8.54	7	13	93	8q11	MOS	C
8.55	1	29	96	8q11-q12	CA8, CALS, CARP	P
8.56	10	21	92	8q11-q12	CYP7	P
8.57	3	18	94	8q11.2	OPRK1	C
8.58	7	8	89	8q12	SGPA, PSA	P
8.59	4	10	90	8q12-q13	IL7	P
8.6	4	23	96	8q13	CRH	C
8.61	2	18	96	8q13-q21	GEM	P
8.62	1	9	94	8q13-q21.1	CMT4A	P
8.63	10	13	94	8q13-q22	PDE7A, HCP1	P
8.64	8	22	90	8q13-qter	LYN	P
8.65	12	11	95	8q13.1-q13.3	TTPA, TTP1, AVED	C

8.66	2	3	97	8q13.3	EYA1, BOP	C
8.67	10	18	96	8q13.3	UQOR22	P
8.68	9	14	89	8q21	BN51T, TSBN51	P
8.69	10	13	94	8q21	CYP11B1, P450C11	C
8.7	3	27	90	8q21	CYP11B2	C
8.71	2	28	94	8q21.1	PXMP3, PAF1, PMP35	C
8.72	10	23	87	8q21.1-qter	GLYB	P
8.73	10	4	93	8q21.3-q22.1	PMP2	P
8.74	3	1	88	8q22	CAC@	C
8.75	10	13	94	8q22	CA1	C
8.76	1	19	90	8q22	CA2	C
8.77	6	4	90	8q22	CA3	C
8.78	1	20	95	8q22	CBFA2T1, AML1T1, ETO	P
8.79	9	19	91	8q22	MYBL1	P
8.8	11	27	94	8q22	ODF1	P
8.81	6	29	94	8q22-q23	CHS1	P
8.82	2	19	91	8q22-q24	HSPG1	P
8.83	1	4	96	8q22.2	SGM1, KFSL	P
8.84	3	5	96	8q22.3-qter	SLA	P
8.85	3	8	95	8q23	TRHR	C
8.86	5	14	95	8q23	UND	P
8.87	10	23	87	8q23-q24	PENK	P
8.88	1	8	95	8q23-q24	SNT2B1, A1B, SNTB1	P
8.89	5	24	90	8q24	EBS1	C
8.9	9	11	95	8q24	EGI	P
8.91	1	11	89	8q24	GPT	C
8.92	10	3	96	8q24	HMSNL, NMSL	P
8.93	2	22	92	8q24	HPV18I1	P
8.94	9	2	96	8q24	PLTN	C
8.95	10	23	87	8q24	PVT1	P
8.96	9	2	96	8q24	RIGE	P
8.97	10	23	87	8q24	VMD1	C
8.98	7	13	93	8q24	ZNF7, KOX4	C
8.99	9	28	96	8q24	ZNF16, KOX9	P
8.1	2	20	97	8q24-qter	PLA2L	P
8.101	5	14	95	8q24-qter	PTK2, FADK	P
8.102	7	13	93	8q24.1	NOV	P
8.103	2	16	96	8q24.1	PDNP2	P
8.104	6	5	94	8q24.11-q24.13	EXT1	C
8.105	10	23	87	8q24.11-q24.13	LGCR, LGS, TRPS2	C
8.106	9	14	89	8q24.12	TRPS1	P
8.107	12	9	91	8q24.12-q24.13	MYC	C
8.108	11	4	93	8q24.12-q24.13	ZNF34, KOX32	P
8.109	9	19	94	8q24.2	ADCY8, ADCY3	P

8.11	3	22	93	8q24.2-q24.3	TG	C
8.111	3	18	94	8q24.3	CYC1	C
8.112	9	29	96	8q24.3	GLI4, HKR4	C
8.113	3	14	96	8q24.3	GRINA, NMDARA1	C
8.114	8	21	92	Chr.8	CHRNA2	P
8.115	4	9	96	Chr.8	DEF4, HP4	P
8.116	2	3	97	Chr.8	GLRA3	L
8.117	10	8	88	Chr.8	FRV2	P
8.118	1	22	93	Chr.8	PPP3CC, CALNA3	P
8.119	7	13	92	Chr.8	RPL30	P
8.12	6	4	90	Chr.8	RTS	L
8.121	9	3	91	Chr.8	UQBP, QPC	P
8.122	9	14	89	Chr.8	ZNF1	P
9.1	6	8	89	9pter-p22	ZFY, TDFA	P
9.2	10	23	87	9pter-q12	RLN1	P
9.3	10	23	87	9pter-q12	RLN2	P
9.4	10	22	96	9pter-q34	VCP	P
9.5	10	1	95	9p24.1	NFIB	P
9.6	4	11	94	9p24	EAAC1	P
9.7	11	6	95	9p24	INSL4	P
9.8	10	13	94	9p24	JAK2	P
9.9	7	10	91	9p24	OVC	P
9.1	4	11	94	9p24	VLDLR	C
9.11	10	23	87	9p24-p13	AK3	C
9.12	1	9	95	9p24-p23	SNF2L2	P
9.13	6	11	94	9p23	TYRP, CAS2	C
9.14	1	18	95	9p22	GLDC, HYGN1, GCSP	C
9.15	12	14	95	9p22	IFNA1, IFNA@	C
9.16	12	14	95	9p22	INFA2	P
9.17	12	14	95	9p22	INFA4	P
9.18	12	14	95	9p22	INFA5	P
9.19	12	14	95	9p22	IFNA6	P
9.2	12	14	95	9p22	IFNA7	P
9.21	12	15	95	9p22	IFNA8	P
9.22	12	15	95	9p22	IFNA10	P
9.23	12	15	95	9p22	IFNA13	P
9.24	12	15	95	9p22	IFNA14	P
9.25	12	15	95	9p22	IFNA16	P
9.26	12	15	95	9p22	IFNA17	P
9.27	12	15	95	9p22	IFNA21	P
9.28	7	13	93	9p22	MLLT3, AF9	P
9.29	11	7	89	9p22-p21	LALL	P
9.3	10	23	87	9p22-p13	ACO1	C
9.31	11	3	95	9p21	CDKN2A, MTS1, P16, MLM, CMM2	C

9.32	7	10	95	9p21	CDKN2B, MTS2, P15, INK4B	P
9.33	2	24	97	9p21	ELAVL2, HELN1	P
9.34	4	10	90	9p21	IFNB1	C
9.35	1	8	97	9p21	MFT, TEM	P
9.36	8	28	92	9p21	MTAP	C
9.37	1	6	93	9p21	RPS6	C
9.38	1	7	95	9p21	TEK, TIE2	P
9.39	4	18	94	9p21-p12	NPR2, ANPRB	P
9.4	9	4	91	9p21-p12	RMRP, RMRPR	P
9.41	1	17	95	9p21-q21	AMCD1, DA1	P
9.42	1	22	96	9p13	ALDH5	C
9.43	4	1	96	9p13	AQP3	C
9.44	9	30	95	9p13	CHH	P
9.45	1	2	96	9p13	CNTFR	C
9.46	10	23	87	9p13	GALT	C
9.47	1	24	91	9p13	GGTB2	P
9.48	2	11	96	9p13	IL11RA	C
9.49	5	27	93	9p13	PAX5, BSAP	C
9.5	1	1	96	9p13	TPM2	P
9.51	11	13	96	9p12	BAG1	P
9.52	6	8	95	9p12-p11	SHB	P
9.53	2	18	96	9p12-q12	PGM5	P
9.54	3	8	95	9p11	MROS	L
9.55	4	24	96	9p1-q1	FKHL9	P
9.56	2	19	96	9p1-q1	IBM2	P
9.57	11	4	91	9p	CD72, LYB2	P
9.58	10	1	95	9p	TLN	P
9.59	1	11	95	9p	VMCM	C
9.6	6	11	94	9cen-q34	FPGS	C
9.61	1	6	97	9q	PTPRD	P
9.62	1	25	91	9q11-q22	ANX1, LPC1	P
9.63	10	23	87	9q12	DNCM	P
9.64	11	12	96	9q13	CMD1B, CMPD1, FDC	C
9.65	9	19	91	9q13	PRKACG	P
9.66	2	12	96	9q13-q21	DFNB7	P
9.67	10	1	95	9q13-q21.1	FRDA, FARR	C
9.68	1	28	88	9q21	ALDH1	P
9.69	3	8	95	9q21	GCNT1	P
9.7	3	9	95	9q21	GCNT2	P
9.71	2	18	96	9q21	GNAQ	P
9.72	9	28	96	9q21	IARS	P
9.73	10	20	92	9q21-q22	COL15A1	P
9.74	3	22	93	9q21-q22	CTSL	C
9.75	3	18	94	9q21.3-q22.1	GAS1	C

9.76	4	9	96	9q21.32-q21.33	HNRPK	C
9.77	12	17	87	9q22	ALDOB	C
9.78	2	12	96	9q22	CSMF	C
9.79	11	17	94	9q22	HSD17B3, EDH17B3	P
9.8	1	7	95	9q22	SYK	P
9.81	10	13	94	9q22-q31	ABC1	P
9.82	1	9	96	9q22.1	NTRK2, TRKB	P
9.83	9	9	96	9q22.1-q22.3	HSN1, HSAN1	P
9.84	12	4	95	9q22.2-q22.3	FBP1	C
9.85	9	19	91	9q22.2-q22.3	TMOD	C
9.86	11	2	95	9q22.3	FACC	C
9.87	10	22	96	9q22.3	PTCH, NBCCS, BCNS	C
9.88	9	12	93	9q31	ESS1	P
9.89	5	22	92	9q31	NBCCS, BCNS	C
9.9	2	9	92	9q31	TAL2	P
9.91	5	9	95	9q31	TXN	C
9.92	5	27	93	9q31-q33	DYS	P
9.93	3	9	95	9q31-q33	FCMD	P
9.94	9	19	88	9q31-qter	APPL1	P
9.95	9	22	96	9q31.3-q32	MUSK	P
9.96	7	13	93	9q32	AFDN	L
9.97	1	6	93	9q32-q33	AMBP, ITIL, ITI, HCP	C
9.98	1	7	95	9q32-q33.3	PTGS1	P
9.99	12	22	89	9q32-q34	DYT1	C
9.1	10	13	94	9q32-q34	WI	L
9.101	3	9	95	9q33	FTZF1, FTZ1, SF1	P
9.102	3	22	93	9q33	HXB	C
9.103	3	15	92	9q33-q34	GGTA1, GLYT2	P
9.104	6	11	94	9q33-q34	PBX3	C
9.105	9	28	96	9q33-q34	SARD, SAR	L
9.106	1	11	89	9q33-q34	SPTAN1	C
9.107	10	1	95	9q33-q34	TGFBR1	P
9.108	10	23	87	9q33-qter	ITO	I
9.109	7	13	93	9q33.1	PAPPA	P
9.11	10	13	94	9q34	ABC2	P
9.111	10	23	87	9q34	ABO	C
9.112	4	10	90	9q34	ALAD	C
9.113	8	22	90	9q34	ASS	C
9.114	10	13	94	9q34	C8G	C
9.115	2	18	96	9q34	CACNL1A5	P
9.116	5	14	95	9q34	DBH	C
9.117	4	11	94	9q34	GRP78	C
9.118	2	9	92	9q34	GSN	P
9.119	10	13	94	9q34	LCN1	C

9.12	11	22	94	9q34	LCN2, NGAL	P
9.121	9	4	91	9q34	PAEP, PP14	C
9.122	10	1	95	9q34	PPP2R4, PTPA	P
9.123	12	3	96	9q34	RING3L, ORFX	P
9.124	5	27	93	9q34	RPL7A, SURF3	C
9.125	1	4	96	9q34	SET	P
9.126	5	27	93	9q34	SURF1	C
9.127	5	27	93	9q34	SURF2	C
9.128	5	27	93	9q34	SURF4	C
9.129	5	27	93	9q34	SURF5	C
9.13	1	7	95	9q34	TSC1	C
9.131	5	27	93	9q34	SURF6	C
9.132	5	14	95	9q34	VAV2	P
9.133	7	13	93	9q34	ZNF79	P
9.134	1	9	93	9q34.1	ABL1	C
9.135	3	1	88	9q34.1	AK1	C
9.136	4	2	90	9q34.1	C5	C
9.137	11	22	94	9q34.1	CRAT, CAT1	P
9.138	6	17	94	9q34.1	D9S46E, CAN, CAIN	P
9.139	10	14	95	9q34.1	DAPK1	P
9.14	3	9	95	9q34.1	ENDOG	P
9.141	1	7	95	9q34.1	ENG, END, HHT, ORW	C
9.142	6	11	94	9q34.1	EPB72	C
9.143	9	22	96	9q34.1	NCBP	P
9.144	3	8	95	9q34.1	NPS1	C
9.145	5	1	91	9q34.1	XPA	C
9.146	11	13	96	9q34.1-q34.2	ATSV	P
9.147	8	20	88	9q34.1-q34.3	ORM1, AGP1	C
9.148	8	20	88	9q34.1-q34.3	ORM2	C
9.149	4	18	97	9q34.2-q34.3	COL5A1	C
9.15	1	23	96	9q34.2-q34.3	EDS2	P
9.151	6	11	94	9q34.2-q34.3	PTGDS	C
9.152	8	11	91	9q34.3	CEL, BSSL	C
9.153	9	12	93	9q34.3	CELL	P
9.154	1	17	95	9q34.3	GRF2, C3G	P
9.155	3	19	94	9q34.3	GRIN1, NMDAR1	C
9.156	1	27	97	9q34.3	LHX3	P
9.157	1	7	95	9q34.3	NOTCH1, TAN1	C
9.158	5	19	94	9q34.3	RXRA	C
9.159	12	15	95	Chr.9	CCBL1	P
9.16	10	22	96	Chr.9	FCN1	P
9.161	10	23	87	Chr.9	H142T	P
9.162	10	23	87	Chr.9	IGEP2	P
9.163	12	4	90	Chr.9	IREB1	P

9.164	5	14	95	Chr.9	PCSK5	P
9.165	8	11	91	Chr.9	VARS1	I
10.1	3	6	94	10pter-p13	CALML3	P
10.2	1	23	96	10pter-p11.2	RDPA	P
10.3	4	23	96	10pter-q11	PAC1	P
10.4	2	9	92	10p15.3-p15.2	PFKP	C
10.5	10	6	92	10p15	ITIH2	C
10.6	9	27	95	10p15	PRKCQ	P
10.7	9	14	95	10p15-p14	CHDR	P
10.8	12	15	95	10p15-p14	DDH1	P
10.9	6	12	95	10p15-p14	DDH2	P
10.1	10	28	93	10p15-p14	IL2RA, IL2R	C
10.11	2	15	96	10p15-p14	IL15RA	P
10.12	9	2	96	10p14-p13	DGCR2, DGS2	P
10.13	11	4	93	10p13	BMI1	P
10.14	10	14	94	10p13	MRC1	P
10.15	8	23	90	10p13	VIM	C
10.16	12	3	95	10p12.1	MGA1	P
10.17	3	6	94	10p12.1-p11.2	CREM	P
10.18	4	25	90	10p12-q23.2	GBM	C
10.19	3	9	95	10p11.23	GAD2	C
10.2	3	13	92	10p11.2	ITGB1, FNRB	C
10.21	10	21	92	10p11.2	TCF8	P
10.22	8	20	92	10p11.2-q11.2	ZNF25, KOX19	C
10.23	5	14	95	10q	EPT	P
10.24	12	17	95	10q11	ERCC6, CKN2	P
10.25	8	28	92	10q11-q12	D10S170, TST1, PTC, TPC	C
10.26	2	9	92	10q11-q21	TAC2R, NKNAR	C
10.27	10	23	87	10q11-q24	ADK	C
10.28	12	17	95	10q11.1	SDF1	P
10.29	10	23	87	10q11.1-q24	PP	C
10.3	1	24	91	10q11.2	CHAT	C
10.31	9	29	96	10q11.2	MSMB	C
10.32	9	19	91	10q11.2	PRKGR1B	P
10.33	10	12	90	10q11.2	RBP3	C
10.34	3	18	94	10q11.2	RET, MEN2A	C
10.35	12	17	95	10q11.2	SLC18A3, VACHT	P
10.36	8	20	92	10q11.2	ZNF11A, KOX2	C
10.37	8	20	92	10q11.2	ZNF11B, KOX2	C
10.38	8	28	92	10q11.2	ZNF22, KOX15	C
10.39	6	13	94	10q11.2-q21	MBL	C
10.4	9	14	95	10q11.2-q21.1	GPR7	P
10.41	3	25	96	10q11.21-q11.22	HNRPF	C
10.42	7	10	95	10q21	ANK3	P

10.43	3	9	95	10q21	TCF6L2, TFAM	P
10.44	9	29	96	10q21-q22	PPP3CB, CALNB	C
10.45	9	29	96	10q21-q22	PPP3R1, CALNB1	P
10.46	11	12	96	10q21-q23	CMD1C, CMPD3	P
10.47	5	14	95	10q21-q24	HTR7	P
10.48	1	6	93	10q21.1	CDC2	C
10.49	10	13	94	10q21.1-q21.2	ANX7, SNX	P
10.5	5	31	90	10q21.1-q22.1	EGR2, KROX20	P
10.51	6	13	94	10q21.3-q22.1	D10S105E, GDA	P
10.52	4	10	90	10q21.3-q23.1	P4HA	P
10.53	10	12	90	10q22	COL13A1	C
10.54	3	18	94	10q22	DCOH	C
10.55	9	13	92	10q22	HK1	C
10.56	10	17	96	10q22	MATA1	P
10.57	8	21	92	10q22	PRF1	P
10.58	9	9	96	10q22-q23	MHAM, CD	P
10.59	11	4	93	10q22-q23	SFTP1B	L
10.6	3	19	91	10q22-q24	ACTA2, ACTSA	P
10.61	6	5	89	10q22.1	PRG	C
10.62	9	29	96	10q22.1	PSAP, SAP1	C
10.63	8	21	92	10q22.1-q23	VCL	C
10.64	3	23	93	10q22.2-q23.1	SFTP1	C
10.65	8	20	96	10q23	RGR	C
10.66	10	23	87	10q23-q24	DNTT, TDT	C
10.67	5	31	94	10q23-q24	IFI56, G10P1, IFNAI1	C
10.68	5	22	92	10q23-q24	G10P2, IFI54	C
10.69	11	4	93	10q23-q24	ZNF32, KOX30	P
10.7	2	9	92	10q23-q25	IDE	C
10.71	12	3	95	10q23.1-q23.3	HPS	C
10.72	10	4	93	10q23.3	GLUD1	C
10.73	3	31	97	10q23.3	PTEN, MMAC1	P
10.74	7	10	95	10q23.3	SFTP4	C
10.75	8	3	95	10q23.3-q24.1	SCA8, IOSCA	P
10.76	4	10	97	10q23.3-q24.3	PEO, PEO1	P
10.77	2	26	93	10q24	HOX11, TCL3	C
10.78	5	27	93	10q24	NFKB2, LYT10	C
10.79	12	17	95	10q24	PDE6C, PDEA2	P
10.8	5	27	93	10q24	PLAU, URK	C
10.81	10	1	95	10q24	RBP4	C
10.82	8	29	96	10q24	WNT8B	P
10.83	4	10	90	10q24-q25	LIPA	C
10.84	1	23	96	10q24-q25	SHFM3	C
10.85	3	7	92	10q24-q26	ADRA2A, ADRA2R	C
10.86	9	8	90	10q24-q26	ADRB1, ADRB1R	C

10.87	12	17	95	10q24-qter	GPRK5, GRK5	P
10.88	7	11	95	10q24.1	APT1, FAS	C
10.89	11	2	92	10q24.1	KNSL1	P
10.9	5	18	90	10q24.1-q24.3	CYP2C, CYP2C19	C
10.91	10	16	89	10q24.1-q25.1	GOT1	C
10.92	10	22	96	10q24.3	COL17A1, BPAG2	C
10.93	9	12	93	10q24.3	CYP17, P450C17	C
10.94	10	21	96	10q24.3	PYCS, GSAS	C
10.95	3	6	94	10q24.3-qter	CYP2E	C
10.96	6	29	95	10q25	MXI1	C
10.97	5	14	95	10q25	PAX2	C
10.98	9	29	96	10q25	SLC18A2, VAT2, SVMT	C
10.99	1	9	96	10q25-q26	ACADSB	P
10.1	1	1	96	10q25-q26	FGF8	C
10.101	10	15	91	10q25-qter	MKI67	P
10.102	3	20	97	10q25.2-q26.3	HMX2	P
10.103	6	21	91	10q25.2-q26.3	UROS	P
10.104	6	5	89	10q25.3	PGAM1	P
10.105	11	5	95	10q25.3-q26	GPR10	P
10.106	3	23	93	10q25.3-q26.3	ADORA2L	P
10.107	2	24	97	10q26	FGFR2, BEK, CFD1, JWS	C
10.108	9	12	93	10q26	MGMT	C
10.109	2	26	91	10q26	OAT	C
10.11	9	12	93	10q26	OATL3	P
10.111	1	1	96	10q26	PTPRE	C
10.112	1	9	96	10q26.1	EMX2	P
10.113	10	4	91	10q26.1	PNLIP	P
10.114	9	2	96	10q26.13-q26.3	DOCK180	P
10.115	2	12	96	10q26.3	INPP5A	P
10.116	7	5	92	Chr.10	ALOX5	P
10.117	3	9	95	Chr.10	ATP5, ATPM, ATP5A	P
10.118	10	23	87	Chr.10	FUSE	P
10.119	10	23	87	Chr.10	HEP10	P
10.12	10	23	87	Chr.10	M130	P
10.121	10	23	87	Chr.10	PROA	P
10.122	3	1	94	Chr.10	RSU1	P
10.123	1	9	95	Chr.10	SLO	P
10.124	11	4	93	Chr.10	TPL2	L
11.1	5	15	89	11pter-p15.4	BWS, WBS	C
11.2	12	16	93	11pter-p13	AMPD3	P
11.3	10	12	90	11pter-p13	CD44, MDU2, MDU3, MIC4	P
11.4	7	13	92	11pter-p13	RPS17	P
11.5	3	6	94	11pter-p11.2	TP250	P
11.6	11	4	93	11p15.5	CARS	P

11.7	10	7	96	11p15.5	CDKN1C, KIP2	C
11.8	6	14	94	11p15.5	CTSD, CPSD	C
11.9	10	23	92	11p15.5	D11S813E, ASM1, H19	C
11.1	1	9	96	11p15.5	DRD4	C
11.11	10	20	92	11p15.5	HRC1	P
11.12	3	26	95	11p15.5	IDDM2	C
11.13	1	18	96	11p15.5	L23MRP, MRPL23	P
11.14	8	28	92	11p15.5	MER2	C
11.15	8	28	92	11p15.5	MUC2	C
11.16	6	13	95	11p15.5	MUC5AC, MUC5	C
11.17	10	23	87	11p15.5	NAGC@, HBBC@	C
11.18	10	23	87	11p15.5	HBB	C
11.19	10	23	87	11p15.5	HBD	C
11.2	10	23	87	11p15.5	HBGR	C
11.21	1	9	93	11p15.5	HBG1	C
11.22	1	9	93	11p15.5	HBG2	C
11.23	3	1	89	11p15.5	HBE1	C
11.24	6	14	94	11p15.5	HRAS	C
11.25	3	18	95	11p15.5	IGF2	C
11.26	2	28	89	11p15.5	INS	C
11.27	12	19	90	11p15.5	KRN1L	P
11.28	2	19	97	11p15.5	LQT1, KVLQT1	C
11.29	3	23	93	11p15.5	LSP1	P
11.3	3	22	93	11p15.5	MTACR1, WT2	C
11.31	2	3	97	11p15	NAP2L, NAP2	P
11.32	6	21	91	11p15.5	RMS1	P
11.33	10	12	90	11p15.5	RNH	C
11.34	7	13	93	11p15.5	RRM1	C
11.35	12	11	95	11p15.5	SSA1, RO52	P
11.36	3	18	95	11p15.5	TH, TYH	C
11.37	7	13	93	11p15.5-p15.4	ARHG	P
11.38	3	6	94	11p15.5-p15.4	CCKBR, GASR	C
11.39	12	17	87	11p15.5-p15.4	HPX	C
11.4	2	20	97	11p15.5-p15.4	MUC6	P
11.41	10	16	89	11p15.5-p15.3	LDHC, LDH3	C
11.42	12	4	95	11p15.5-p15.2	TAF2H, TAF2A	P
11.43	3	29	90	11p15.4	LDHA, LDH1	C
11.44	4	30	91	11p15.4	MYOD1, MYF3	C
11.45	10	12	90	11p15.4-p15.1	SMPD1, NPD	P
11.46	10	14	94	11p15.3-p15.1	PTH	C
11.47	3	23	93	11p15.3-p15.1	WEE1	P
11.48	8	21	91	11p15.3-p14	TPH	C
11.49	3	23	93	11p15.2-p15.1	CALCA, CALC1	C
11.5	3	23	93	11p15.2-p15.1	CALCB, CALC2	C

11.51	2	18	96	11p15.2-p15.1	PTPN5, STEP	P
11.52	3	31	97	11p15.2-p15.1	TSG101	P
11.53	11	20	95	11p15.1	BIR	P
11.54	2	18	96	11p15.1	LMO4, CLP	P
11.55	3	18	94	11p15.1	SAA1	C
11.56	3	18	94	11p15.1	SAA2	C
11.57	3	18	94	11p15.1	SAA4	C
11.58	11	13	96	11p15.1	SUR, PHHI, SUR1	C
11.59	3	18	95	11p15.1	USH1C	C
11.6	3	18	95	11p15.1-p14	GTF2H1	C
11.61	3	18	95	11p15.1-p14	PHHI	C
11.62	8	3	95	11p15	AA	P
11.63	2	24	97	11p15	ART1	P
11.64	3	23	93	11p15	KCNC1	C
11.65	4	17	97	11p15	LMO1, RBTN1, RHOM1	C
11.66	9	12	95	11p15	MUC5B	P
11.67	1	30	96	11p15	NUP98	C
11.68	10	23	92	11p15	ST5, HTS1	P
11.69	4	10	90	11p14.3-p12	ST2	P
11.7	2	9	92	11p14.2-p14.1	HSPCAL3	P
11.71	1	25	93	11p14.1	KCNA8	P
11.72	11	28	88	11p14-p13	HVBS1	C
11.73	6	21	91	11p13	BDNF	C
11.74	4	10	90	11p13	CAT	C
11.75	7	13	93	11p13	CD59	C
11.76	10	23	87	11p13	FSHB	C
11.77	12	11	95	11p13	LMO2, RBTNL1, RHOM2, TTG2	P
11.78	4	9	96	11p13	M11S1	P
11.79	4	30	91	11p13	MIC11	C
11.8	7	8	96	11p13	PAX6, AN2	C
11.81	11	8	96	11p13	RAG1	C
11.82	1	25	93	11p13	RAG2	C
11.83	9	15	88	11p13	TCL2	P
11.84	9	2	96	11p13	WT1	C
11.85	2	24	97	11p13-p12	PSMC3, TBP1	P
11.86	1	29	96	11p13-p12	SLC1A2, EAAT2	C
11.87	8	31	92	11p13-p11.2	PCM	P
11.88	11	17	94	11p12	CD82, SAR2	P
11.89	6	8	89	11p12-p11.22	SPI1	P
11.9	3	15	92	11p12-p11.2	CHRM4	C
11.91	11	7	95	11p12-p11.12	PFM, FPP	P
11.92	10	8	88	11p12-p11	ACP2	C
11.93	12	13	96	11p12-p11	DDB2	P
11.94	10	22	96	11p12-p11	EXT2	C

11.95	10	2	91	11p12-q13	ACRV1	P
11.96	9	14	94	11p11.2	MDK, NEGF2	C
11.97	12	14	95	11p11.2	MYBPC, CMH4	C
11.98	8	22	95	11p11.2	ST6, KAI1, CD82	P
11.99	9	19	88	11p11.2	TYRL	P
11.1	1	21	97	11p11.2-p11.1	RAPSN	P
11.101	1	7	95	11p11-q11	SCA5	P
11.102	10	12	90	11p11-q12	F2	C
11.103	1	25	93	11p	INLU	P
11.104	2	15	96	11p	SYT5	L
11.105	1	6	93	11p	TAPA1	P
11.106	2	11	93	11cen-q13	ADRBK1	C
11.107	9	12	95	11q	CPT1	P
11.108	6	22	90	11q	JBS	L
11.109	9	25	92	11q	MDU1, NACAE	C
11.11	2	12	96	11q11	CTNND	P
11.111	9	12	91	11q11-q12	TCN1, TC1	P
11.112	6	4	90	11q11-q13.1	C1NH	C
11.113	2	10	97	11q11-qter	UGB, CC10, CCSP	P
11.114	10	16	95	11q12	AHNAK	P
11.115	3	18	95	11q12	FEN1	P
11.116	5	14	95	11q12	AGTRL1, APJ	P
11.117	10	14	95	11q12-q13	DDB1	P
11.118	5	14	95	11q12-q13	EMK1	P
11.119	11	4	93	11q12-q13	IGER, APY	C
11.12	8	11	91	11q12-q13	CHRM1	P
11.121	10	4	91	11q12-q13	FTH1, FTHL6	C
11.122	11	13	96	11q12-q13	OPPG	P
11.123	11	15	95	11q12-q13	RELA, NFKB3	C
11.124	10	4	96	11q12-q13	OPPG	P
11.125	10	4	91	11q12-q13	OSBP	C
11.126	10	23	87	11q12.1-q13.5	FNL2	P
11.127	7	13	93	11q12.2	CNTF	C
11.128	11	13	96	11q12.3-q21	DFNA11	P
11.129	12	11	95	11q13	ARRB1	C
11.13	10	14	94	11q13	BBS1	C
11.131	8	31	92	11q13	CCND1, PRAD1	C
11.132	6	8	89	11q13	CD5, LEU1	C
11.133	7	13	93	11q13	CD20	C
11.134	1	8	97	11q13	CFL1	C
11.135	7	13	93	11q13	COX8	C
11.136	12	11	95	11q13	EMS1	P
11.137	9	12	93	11q13	FAU	C
11.138	3	18	94	11q13	FCER1B	C

11.139	3	8	92	11q13	FGF4, HSTF1	C
11.14	3	8	92	11q13	FGF3, INT2	C
11.141	12	28	93	11q13	FOSL1	P
11.142	12	6	91	11q13	GSTP1, GST3	C
11.143	3	26	95	11q13	IDDM4	P
11.144	4	18	97	11q13	MEN1	C
11.145	3	1	94	11q13	NDUFV1, UQOR1	P
11.146	9	12	93	11q13	NUMA1	P
11.147	10	23	87	11q13	PGA3	C
11.148	10	23	87	11q13	PGA4	C
11.149	10	23	87	11q13	PGA5	C
11.15	1	7	95	11q13	PLCB3	C
11.151	10	4	91	11q13	PPP1A	C
11.152	6	8	89	11q13	PYGM	C
11.153	4	11	97	11q13	HND	L
11.154	3	2	95	11q13	ROM1, ROSP1	P
11.155	12	16	93	11q13	RT6	P
11.156	9	17	92	11q13	SEA	C
11.157	7	13	93	11q13	SMTN	P
11.158	12	9	91	11q13	ST3	C
11.159	2	24	97	11q13	UBID4	P
11.16	3	3	97	11q13	UCP2	P
11.161	4	10	97	11q13	VMD2	C
11.162	1	27	97	11q13	VEGFB, VRF	P
11.163	11	3	92	11q13	VRNI	P
11.164	3	31	97	11q13	ZNF162, D11S636, ZFM1	P
11.165	8	21	92	11q13-q14	ACTN3	P
11.166	10	23	87	11q13-q22	ESA4	C
11.167	9	12	93	11q13-q23	EVR1, FEVR	C
11.168	10	23	87	11q13-qter	GANAB	P
11.169	6	16	89	11q13-qter	MSK39	P
11.17	12	11	95	11q13.1	PGL2, PGL, CBT1	C
11.171	3	23	93	11q13.1-q13.3	FKBP2	P
11.172	1	8	95	11q13.1-q13.3	MLK3	P
11.173	12	11	95	11q13.2-q13.4	IGHMBP2, SMUBP2, CATF1	P
11.174	4	10	90	11q13.3	BCL1	C
11.175	3	23	93	11q13.3-q13.4	ZNF126	P
11.176	10	20	92	11q13.3-q13.5	FOLR1	C
11.177	10	20	92	11q13.3-q13.5	FOLR2	P
11.178	1	9	94	11q13.3-q13.5	GALN, GLNN	P
11.179	3	18	95	11q13.3-q13.5	RNU15A	P
11.18	3	18	95	11q13.3-q13.5	RPS3	P
11.181	7	11	95	11q13.4-q13.5	PC	C
11.182	1	9	94	11q13.4-q14.1	KCNA4	C

11.183	3	23	93	11q13.4-q14.1	OMP	P
11.184	1	1	96	11q13.5	CBP2	P
11.185	10	14	94	11q13.5	DFNB2, NSRD2	P
11.186	10	4	91	11q13.5	KRN1	C
11.187	2	28	96	11q13.5	MYO7A, USH1B	P
11.188	7	5	92	11q13.5-q14	D11S833E, GARP	P
11.189	1	15	97	11q13.5-q14.1	P2RY2, P2Y2, P2U	P
11.19	4	21	97	11q14	FOLH, PSM	P
11.191	10	12	90	11q14-q21	CLA1	L
11.192	11	30	89	11q14-q21	TYR	C
11.193	5	19	94	11q21	FUT4, FCT3A, CD15	C
11.194	10	22	95	11q21	MRE11	P
11.195	9	16	96	11q21-q22	GUC1A2	P
11.196	9	29	96	11q21-q22	MMP7	C
11.197	11	15	94	11q21-q22	MMP8, CLG1	P
11.198	9	29	95	11q21-q22	MTNR1B	P
11.199	10	27	92	11q22	FDX1, ADX	C
11.2	6	5	89	11q22	PGR	C
11.201	4	30	96	11q22-q23	DDX10	P
11.202	3	1	94	11q22-q23	GRIA4, GLUR4	P
11.203	11	15	94	11q22-q23	MMP1, CLG	C
11.204	4	11	97	11q22-q23	VACM1	P
11.205	4	24	90	11q22-qter	ANC	L
11.206	9	15	96	11q22-qter	SCN2B	P
11.207	12	13	96	11q22.2-q22.3	IL1BC, CASP1	C
11.208	9	21	95	11q22.3	ATM, ATA, AT1	C
11.209	1	7	95	11q22.3	GRIK4	P
11.21	5	15	95	11q22.3	MMP13, CLG3	P
11.211	10	8	96	11q22.3	NPAT	P
11.212	7	13	94	11q22.3-q23	MMP10, STMY2	P
11.213	8	17	92	11q22.3-q23.1	ACAT	C
11.214	1	18	94	11q22.3-q23.1	CRYAB, CRYA2	C
11.215	3	18	94	11q22.3-q23.3	PTS	P
11.216	3	15	91	11q23	APOLP1@	C
11.217	7	9	90	11q23	APOA1	C
11.218	7	13	93	11q23	APOC3	C
11.219	3	15	91	11q23	APOA4	C
11.22	11	13	94	11q23	BRCA3	P
11.221	12	24	89	11q23	CD3D, T3D	C
11.222	12	24	89	11q23	CD3E	P
11.223	7	9	90	11q23	CD3G	C
11.224	8	29	96	11q23	CMT4B	P
11.225	12	24	89	11q23	DRD2	C
11.226	10	22	95	11q23	INPPL1	P

11.227	7	13	93	11q23	MLL, HRX, HTRX1	C
11.228	7	13	94	11q23	MMP3, STMY1	C
11.229	5	27	93	11q23	RDX	P
11.23	6	20	94	11q23	TCPT	L
11.231	11	14	96	11q23-q24	ITM1	P
11.232	12	11	95	11q23-q24	PVRR1, PRR1	P
11.233	8	31	92	11q23-q24	SRPR	C
11.234	4	11	94	11q23-q25	APLP2	P
11.235	10	23	87	11q23.1	EBVM1	P
11.236	9	9	90	11q23.1	NCAM	C
11.237	11	8	95	11q23.1	NNMT	P
11.238	7	13	93	11q23.1	PLZF	P
11.239	9	12	93	11q23.1	PORC	P
11.24	4	23	96	11q23.1	POU2AF1, OBF1	P
11.241	12	9	95	11q23.1-q23.2	HTR3	P
11.242	3	23	93	11q23.1-q23.2	ZNF123	P
11.243	3	23	93	11q23.1-q23.2	ZNF125	P
11.244	12	11	95	11q23.3	ARCN1	P
11.245	6	21	91	11q23.3	CBL2	C
11.246	3	4	96	11q23.3	DDX6, HLR2	P
11.247	1	13	93	11q23.3	ETS1	C
11.248	7	4	95	11q23.3	HMBS, PBGD, UPS	C
11.249	3	18	95	11q23.3	IL10R	C
11.25	3	18	94	11q23.3	RPS25	P
11.251	7	4	95	11q23.3	THY1	C
11.252	10	4	95	11q23.3-q25	HSPA8, HSP73	P
11.253	11	6	94	11q24	FLI1	C
11.254	10	8	96	11q24	KCNJ1, ROMK1	C
11.255	10	1	95	11q24	KCNJ5	P
11.256	10	21	92	11q24-q25	NFRKB	P
11.257	10	14	94	Chr.11	AM	P
11.258	5	18	90	Chr.11	CAPN1	P
11.259	7	3	88	Chr.11	CD6, TP120	P
11.26	4	13	92	Chr.11	CD57, LEU7	P
11.261	6	14	95	Chr.11	ERVT2, TRV2	P
11.262	4	10	90	Chr.11	FRV1	P
11.263	6	6	91	Chr.11	GIF	P
11.264	7	11	95	Chr.11	OPCML	P
11.265	1	20	97	Chr.11	PTP4A2, HH72	P
11.266	1	11	93	Chr.11	SIAT4, CGS23, NANTA3	P
11.267	1	26	97	Chr.11	ZNF75C	P
12.1	10	15	94	12pter-p12	CD4	C
12.2	10	23	87	12pter-q12	BCT1	C
12.3	2	22	92	12p13.32	LAG3	P

12.4	3	14	96	12p13.31	DRPLA	C
12.5	10	23	87	12p13.31-p13.1	GAPD	C
12.6	7	13	93	12p13.3	CCHL1A1	C
12.7	11	28	94	12p13.3	SLC2A3, GLUT3	P
12.8	1	9	94	12p13.3	VWF, F8VWF	C
12.9	9	9	90	12p13.3-p12.3	A2M	C
12.1	1	6	93	12p13.3-p11.2	ACLS	L
12.11	3	27	90	12p13.2	PR@	P
12.12	3	27	90	12p13.2	PRB1	P
12.13	3	27	90	12p13.2	PRB2	C
12.14	3	27	90	12p13.2	PRB3	C
12.15	3	27	90	12p13.2	PRB4	C
12.16	4	10	90	12p13.2	PRH1	C
12.17	3	27	90	12p13.2	PRH2	C
12.18	1	28	88	12p13.2	PCS	P
12.19	2	9	92	12p13.2	TNFR1	C
12.2	1	6	97	12p13.2-p13.1	CLAPS3	P
12.21	1	6	97	12p13.2-q24.1	IBD2	P
12.22	1	7	95	12p13.1	APOBEC1, BEDP	C
12.23	4	9	96	12p13.1-p12.3	MAGP2	P
12.24	4	2	90	12p13	C1R	C
12.25	4	2	90	12p13	C1S	C
12.26	7	12	92	12p13	CCND2	C
12.27	6	5	89	12p13	CD9, MIC3	C
12.28	12	4	95	12p13	CD27	P
12.29	12	4	95	12p13	CDKN1B, KIP1, CDKN4	C
12.3	4	10	96	12p13	CHLR2	P
12.31	8	11	91	12p13	ENO2	C
12.32	12	17	95	12p13	ETV6, TEL	C
12.33	3	18	94	12p13	FGF6	C
12.34	2	9	92	12p13	GNB3	C
12.35	10	8	96	12p13	ISOT	P
12.36	2	11	96	12p13	KCNA1, AEMK, EA1	C
12.37	3	1	94	12p13	KCNA5	C
12.38	3	17	94	12p13	KCNA6	L
12.39	12	4	95	12p13	M6PR	C
12.4	8	29	96	12p13	MLF2	P
12.41	6	4	89	12p13	MPE	L
12.42	10	15	94	12p13	NOL1	P
12.43	6	21	91	12p13	NTF3	C
12.44	1	6	93	12p13	PTPN6	P
12.45	12	13	96	12p13	PXR1	P
12.46	3	18	94	12p13	RBTNL2	P
12.47	4	1	96	12p13	SCNN1A	C

12.48	2	18	96	12p13	TNFCR, LTBR	L
12.49	10	23	87	12p13	TPI1	C
12.5	6	8	89	12p13-p12.2	PZP	P
12.51	3	18	95	12p13-q12.2	RAD52	P
12.52	3	1	94	12p13-p12	CD69	C
12.53	6	13	95	12p13-p12	PTPRO, GLEPP1	P
12.54	6	21	94	12p13-qter	ATP5B, ATPSB	C
12.55	4	25	93	12p12.3-p12.1	IAPP	C
12.56	11	18	96	12p12.2	GYS2	P
12.57	10	23	87	12p12.2-p12.1	LDHB	C
12.58	9	9	96	12p12.2-p11.2	HTNB	P
12.59	2	9	92	12p12.1	KRAS2, RASK2	C
12.6	2	9	92	12p12.1-p11.2	PTHLH	P
12.61	3	14	96	12p12.1-p11.2	SIAT8	C
12.62	11	6	94	12p12	GRIN2B, NMDAR2B	P
12.63	9	16	96	12p12	GUC2C, GUCY2C	P
12.64	9	23	96	12p12	SKP1B	P
12.65	6	13	95	12p12-p11	RECQL	P
12.66	1	1	96	12p11.23	KCNJ8	P
12.67	1	26	97	12p11.2	KRAG	P
12.68	1	5	96	12p11.2-q11	KRT4, CYK4	C
12.69	4	10	96	12p11	CHLR1	P
12.7	12	4	95	12p11	RBBP2	P
12.71	10	15	94	12p11	ITPR2	P
12.72	10	23	87	12p11-qter	CS	C
12.73	1	28	88	12p	KAR	L
12.74	10	15	91	12p	MGP	P
12.75	5	19	94	12p	MIC17, BB1	P
12.76	12	4	90	12p	SYB1	P
12.77	5	15	95	12cen-q21	SYT1	C
12.78	1	8	95	12q11-q12	CNTN1	P
12.79	1	25	93	12q11-q13	ITGA5, FNRA, VLA5A	C
12.8	3	18	95	12q11-q13	KRT1	C
12.81	6	7	95	12q11-q13	KRT2A, KRT2E	P
12.82	9	15	93	12q11-q13	KRT5	P
12.83	1	7	95	12q11-q13	PPKB	P
12.84	7	8	96	12q11-q14	ACVRLK1, ALK1, HHT2	C
12.85	7	13	93	12q11-q21	H1F4	C
12.86	1	30	95	12q12-q13	ADCY6	C
12.87	10	1	95	12q12-q13	CD63, MLA1	P
12.88	10	15	94	12q12-q13	KRT3	P
12.89	8	14	92	12q12-q13	PRPH	P
12.9	10	1	95	12q12-q13	TEGT	P
12.91	4	30	91	12q12-q13	WNT1, INT1	C

12.92	7	4	95	12q12-q14	KRT6A	P
12.93	12	13	95	12q12-q14	KRT7	P
12.94	3	18	94	12q12-q14	VDR	P
12.95	12	20	96	12q13	AAA	P
12.96	12	13	95	12q13	AMHR	P
12.97	6	5	94	12q13	AQP2	C
12.98	9	15	96	12q13	AQP2L	C
12.99	9	2	96	12q13	AQP5	P
12.1	6	27	95	12q13	ATF1, TREB36	P
12.101	5	19	94	12q13	CDK2	P
12.102	11	8	95	12q13	ELA1	C
12.103	4	25	90	12q13	ERBB3	P
12.104	10	23	95	12q13	FXR1	P
12.105	9	7	90	12q13	HMR, NP10	P
12.106	2	26	93	12q13	HOXC@, HOX3@	C
12.107	2	26	93	12q13	HOXC4, HOX3E	C
12.108	2	26	93	12q13	HOXC5, HOX3D	C
12.109	2	26	93	12q13	HOXC6, HOX3C	C
12.11	2	26	93	12q13	HOXC8, HOX3A	C
12.111	2	26	93	12q13	HOXC9, HOX3B	C
12.112	2	26	93	12q13	HOXC12, HOX3F	C
12.113	2	26	93	12q13	HOXC13, HOX3G	C
12.114	12	9	91	12q13	HPV18I2	C
12.115	6	13	95	12q13	ITGA7	P
12.116	10	17	96	12q13	KRT18	C
12.117	10	23	87	12q13	LALBA	P
12.118	5	15	95	12q13	MIP	C
12.119	1	23	96	12q13	MLX	C
12.12	10	15	94	12q13	NFE2	C
12.121	5	15	95	12q13	NRAMP2	P
12.122	8	11	91	12q13	RARG	C
12.123	10	1	95	12q13	SCN8A	P
12.124	7	13	93	12q13	SHMT2, GLYA	C
12.125	4	24	96	12q13	TFCP2	C
12.126	3	18	95	12q13	ZPK	P
12.127	1	9	96	12q13-q14	D12S53E, PMEL17	P
12.128	10	18	96	12q13-q14	GCN5L1	P
12.129	10	23	92	12q13-q14	GSTPL, GST3L	P
12.13	4	25	93	12q13-q14	PAB1	P
12.131	10	15	91	12q13-q14	SAS	P
12.132	11	12	96	12q13-q15	MYO1A	P
12.133	9	30	95	12q13-q21	ENUR2	P
12.134	12	11	91	12q13-q21	TAC3, NKNB	P
12.135	3	18	94	12q13-qter	ZNF10, KOX1	C

12.136	4	25	93	12q13.1	HEM1	P
12.137	2	9	92	12q13.1	HNRPA1	P
12.138	1	27	97	12q13.1	INHBC	P
12.139	11	4	93	12q13.1	SP1	C
12.14	3	18	94	12q13.1-q13.2	DDIT3, GADD153, CHOP10	C
12.141	8	25	94	12q13.1-q13.3	LRP1, A2MR	C
12.142	10	4	93	12q13.11-q13.2	COL2A1	C
12.143	7	12	92	12q13.13	ITGB7	C
12.144	7	17	91	12q13.2-q13.3	GLI	C
12.145	1	1	95	12q13.2-q24.1	FEOM, CFEOM	P
12.146	10	4	94	12q13.3	DAGK1	C
12.147	9	28	96	12q13.3	PFKM	P
12.148	12	4	96	12q13.3-q15	SPPM, SPMD	P
12.149	1	9	96	12q14	CDK4	C
12.15	3	27	90	12q14	GNS, G6S	P
12.151	2	12	96	12q14	IFNG	C
12.152	7	17	91	12q14	PDDR, VDD1	C
12.153	9	15	89	12q14	RAP1B	P
12.154	9	12	95	12q14.3-q15	MDM2	C
12.155	3	18	94	12q15	BABL, LIPO	C
12.156	2	18	96	12q15	CPM	P
12.157	8	30	95	12q15	HMGIC	C
12.158	4	25	93	12q15-q21	PTPRB	P
12.159	5	15	95	12q21	CNA2	C
12.16	2	20	97	12q21	DSPG3	P
12.161	9	29	96	12q21	MYF6	C
12.162	10	23	87	12q21	PEPB	C
12.163	4	12	92	12q21-q23	ATP2B1, PMCA1	P
12.164	7	11	95	12q21.3-q22	LDC	C
12.165	3	17	94	12q22	BTG1	P
12.166	10	1	95	12q22	LTA4H	P
12.167	1	12	95	12q22	MGCT	C
12.168	1	23	93	12q22	MGF	C
12.169	3	18	95	12q22	NEDD1	P
12.17	10	1	95	12q22	TMPO	P
12.171	1	26	95	12q22	ZNF144, MEL18	P
12.172	1	1	96	12q22-q23	ASCL1, ASH1	C
12.173	4	24	90	12q22-q23	HAL, HSTD	C
12.174	11	11	91	12q22-q23	NFYB	P
12.175	12	3	96	12q22-q24.1	IGF1	C
12.176	2	28	89	12q22-qter	ACADS	P
12.177	1	7	95	12q22-qter	NS1	P
12.178	4	25	93	12q23	DCN	C
12.179	1	7	95	12q23	ELK3, SAP2	P

12.18	11	9	95	12q23	PHC	C
12.181	6	8	95	12q23-q24	CLTA	P
12.182	1	12	95	12q23-q24	EPS8	P
12.183	1	9	95	12q23-q24	EPS8	P
12.184	3	18	94	12q23-q24	PMCH	C
12.185	9	15	93	12q23-q24.1	ATP2A2, ATP2B	C
12.186	12	16	93	12q23-q24.1	DAR	C
12.187	1	27	97	12q23-q24.1	NACA	P
12.188	4	10	96	12q23-q24.1	PLA2G1B, PLA2A, PLA2, PPLA2	C
12.189	1	23	96	12q23-q24.1	UMS	P
12.19	7	12	92	12q23-q24.3	MYL2	P
12.191	12	3	95	12q24	DAO, DAMOX	C
12.192	10	22	96	12q24	NIDDM2	P
12.193	12	13	96	12q24	ATX2, SCA2	C
12.194	10	1	95	12q24	SELPLG	P
12.195	8	29	96	12q24	SMA4, HMN2	P
12.196	9	9	96	12q24-qter	HPD, PPD	C
12.197	10	12	90	12q24.1	PAH, PKU1	C
12.198	9	9	96	12q24.1	BCL7A, BCL7	P
12.199	1	8	95	12q24.1	PTPN11	P
12.2	2	20	97	12q24.1	TBX3	C
12.201	2	19	97	12q24.1	TBX5	C
12.202	8	16	94	12q24.1-q24.2	PPP1CC	C
12.203	12	4	96	12q24.1-q24.31	SPSMA	P
12.204	3	27	90	12q24.2	ALDH2	C
12.205	12	20	96	12q24.2	TCF1, HNF1A, MODY3	C
12.206	10	15	91	12q24.2-q24.3	TRA1	P
12.207	9	15	93	12q24.2-q24.31	NOS1	C
12.208	3	18	95	12q24.2-q24.3	RFC5	P
12.209	9	29	96	12q24.3	NHP2L1	P
12.21	4	11	94	12q24.3	POLE	P
12.211	2	9	92	12q24.3	UBC	P
12.212	3	17	94	12q24.31-q24.33	RSN	P
12.213	6	7	91	12q24.33	ZNF26	P
12.214	6	14	95	Chr.12	ERVT3, TRV3	P
12.215	10	8	88	Chr.12	FRV3	P
12.216	2	9	92	Chr.12	GNAI2L, GNAI2A	C
12.217	10	23	87	Chr.12	GPD1	P
12.218	9	9	90	Chr.12	GST12	P
12.219	3	29	90	Chr.12	HIVE1	P
12.22	1	25	93	Chr.12	IGFBP6	P
12.221	11	15	94	Chr.12	KRT6B	P
12.222	8	21	91	Chr.12	KRT8	P
12.223	12	16	93	Chr.12	LYZ	P

12.224	7	17	91	Chr.12	MARS, MTRNS, METRS	P
12.225	1	12	93	Chr.12	MVK, MVLK	P
12.226	11	4	93	Chr.12	MYBPC1	P
12.227	6	5	90	Chr.12	MYF5	P
12.228	5	27	93	Chr.12	NKG2	P
12.229	6	14	89	Chr.12	NTS	P
12.23	7	8	89	Chr.12	OIAS	C
12.231	12	22	87	Chr.12	PFKX	P
12.232	4	16	93	Chr.12	TUBAL1	P
12.233	4	1	96	Chr.12	UNG, DGU	P
13.1	4	26	90	13p12	RNR1	C
13.2	7	8	96	13q	HED, EDH	P
13.3	12	3	96	13q11	DFNA3	P
13.4	11	8	95	13q11-q12	FGF9	P
13.5	9	29	96	13q11-q12	GJB2, CX26	C
13.6	9	29	96	13q11-q12	GJA3, CX46	C
13.7	3	17	94	13q12	DFNB1	C
13.8	1	2	91	13q12	FLT1	C
13.9	1	3	91	13q12	FLT3	C
13.1	10	1	95	13q12	GPR12	P
13.11	9	22	96	13q12	HMG1	P
13.12	11	7	95	13q12	LGMD2C, DMDA1, SCG3	C
13.13	7	11	95	13q12.1	D13S1056E, TG737	P
13.14	2	20	97	13q12.1	IPF1	P
13.15	7	13	93	13q12.1-q12.3	ATP1AL1	C
13.16	9	17	91	13q12.2-q13	MBS	L
13.17	7	13	93	13q12.3	ATRC1	C
13.18	7	11	95	13q12.3	BRCA2	C
13.19	1	12	95	13q12.3	CDX3	P
13.2	3	20	95	13q12.3-q13	RFC3	P
13.21	12	17	95	13q12.3-q13.1	GTF3A, TFIIIA	P
13.22	6	27	95	13q13	CSNK1A1	P
13.23	10	18	96	13q13	MAB21L1	P
13.24	7	4	95	13q13-q14.3	ENUR1	P
13.25	10	14	93	13q14	D13S25, DBM	P
13.26	12	4	96	13q14	RIEG2, RGS2	C
13.27	10	23	87	13q14	XRS	L
13.28	3	14	96	13q14-q21	HTR2A	C
13.29	3	18	94	13q14.1	FKHR	P
13.3	5	27	93	13q14.1-q14.2	RB1	C
13.31	10	23	87	13q14.1-q14.3	LCP1	C
13.32	2	20	97	13q14.11	CPB2, CPU	C
13.33	10	23	87	13q14.11	ESD	C
13.34	5	14	96	13q14.3-q21.1	ATP7B, WND	C

13.35	2	28	97	13q21.1-q22	POU4F1	P
13.36	10	15	94	13q21.1-q32	CLN5	P
13.37	1	9	95	13q22	EDNRB, HSCR2	C
13.38	11	13	94	13q31-q32	TYRP2	P
13.39	4	30	91	13q32	PCCA	C
13.4	9	15	93	13q32-q33	TPP2	C
13.41	6	5	94	13q33	ERCC5, XPG	C
13.42	12	2	96	13q33	EPLG5, LERK5	P
13.43	9	29	96	13q33	SLC10A2, NTCP2	P
13.44	7	11	95	13q33-q34	HPECT1	P
13.45	1	23	93	13q34	ATP4B	P
13.46	10	23	87	13q34	COL4A1	C
13.47	10	23	87	13q34	COL4A2	C
13.48	10	23	87	13q34	F7	C
13.49	10	23	87	13q34	F10	C
13.5	2	24	97	13q34	FGF14, FHF4	P
13.51	2	15	96	13q34	GAS6, AXLLG, AXSF	P
13.52	6	21	91	13q34	HHH	L
13.53	2	9	92	13q34	LAMP1	C
13.54	7	17	91	13q34	RAP2A	P
13.55	2	19	97	13q34	RHOK, RK, GRK1	P
13.56	9	28	95	13q34	STGD2	P
13.57	10	2	89	Chr.13	BRCD1	P
13.58	10	16	92	Chr.13	CPB2	P
13.59	6	14	95	Chr.13	ERVT5, TRV5	P
14.1	4	26	90	14p12	RNR2	C
14.2	3	20	95	14q	MPD1	P
14.3	6	14	95	14q	SPG3A	P
14.4	1	9	95	14q	YY1	P
14.5	12	3	91	14q11	ANG	P
14.6	8	3	95	14q11-q12	DAD1	P
14.7	10	2	95	14q11-q12	MMP14	P
14.8	4	28	90	14q11-q12	TRL1	C
14.9	4	28	90	14q11-q12	TRP1	C
14.1	4	28	90	14q11-q12	TRP2	C
14.11	4	28	90	14q11-q12	TRT2	C
14.12	7	11	95	14q11-q24	PIGH	L
14.13	10	16	92	14q11.1-q11.2	D14S46E, NRL	C
14.14	5	16	95	14q11.2	ADCY4	C
14.15	9	22	96	14q11.2	CEBPE, CRP1	L
14.16	4	25	93	14q11.2	CMA1	P
14.17	4	10	90	14q11.2	CTLA1, CSPB	C
14.18	4	25	93	14q11.2	CTSG	C
14.19	4	25	93	14q11.2	CTSGL2	C

14.2	1	9	95	14q11.2	ICR2, LI	P
14.21	2	15	96	14q11.2	OXA1L	P
14.22	4	25	93	14q11.2	TCRA	C
14.23	4	25	93	14q11.2	TCRD	C
14.24	6	29	95	14q11.2	TGM1	C
14.25	1	12	95	14q11.2-q12	APEX	P
14.26	5	16	95	14q11.2-q13	OPMD	P
14.27	6	24	94	14q12	APE	C
14.28	12	3	96	14q12	DFNB5	P
14.29	8	29	96	14q12-q13	DFNA9	P
14.3	1	25	91	14q12	MYH6	C
14.31	7	13	93	14q12	MYH7, CMH1	C
14.32	5	27	93	14q12-q13	PAX9	P
14.33	10	15	95	14q13	FKHL1, FKH2, QIN, BF1	C
14.34	10	15	95	14q13	FKHL2, HBF2, BF2	P
14.35	10	4	93	14q13	NFKBI, IKBA	P
14.36	10	15	95	14q13	NKX2A, TTF1	P
14.37	4	25	93	14q13	SSTR1	C
14.38	3	29	89	14q13.1	NP	C
14.39	1	27	97	14q21	SOS2	P
14.4	12	17	95	14q21-q22	NSP	P
14.41	11	6	94	14q21-q22	OTX2	P
14.42	12	16	93	14q21-q22	PYGL	P
14.43	9	14	95	14q22	CDKN3	P
14.44	4	1	96	14q22	CG1	P
14.45	3	31	97	14q22-q23.2	SPTB	C
14.46	2	15	96	14q22-q24	BRF1, ERF1	P
14.47	1	8	97	14q22-q23	BMP4, BMP2B1	C
14.48	8	20	90	14q22-q24	ACTN1	P
14.49	1	9	95	14q22.1-q22.2	GCH1	P
14.5	7	12	92	14q23	MAX	P
14.51	6	15	95	14q23	PSMA3	P
14.52	10	15	94	14q23-q24	ARVD1	P
14.53	11	4	93	14q23-q24	FNTB	P
14.54	8	13	91	14q23-q24	ZNF46, KUP	P
14.55	9	15	89	14q24	MTHFD, MTHFC	C
14.56	4	26	90	14q24	TGFB3	P
14.57	7	13	93	14q24-q31	CALM1, PHKD	C
14.58	3	14	96	14q24-q31	PGF, PLGF	P
14.59	2	9	92	14q24-q31	RNS2, EDN	C
14.6	2	9	92	14q24-q31	RNS3, ECP	C
14.61	1	9	95	14q24-qter	CTAA1	L
14.62	4	9	96	14q24.1	GPX2	C
14.63	10	15	94	14q24.1	HSPA2	C

14.64	7	11	95	14q24.3	AD3	C
14.65	10	15	94	14q24.3	DLST	C
14.66	6	5	92	14q24.3	FOS	C
14.67	2	26	93	14q24.3	CHX10, HOX10	P
14.68	12	17	95	14q24.3	UBCL, UBC4	P
14.69	4	23	96	14q24.3-q31	IDDM11	P
14.7	5	14	96	14q24.3-q31	MJD, SCA3	C
14.71	12	17	95	14q24.3-q31	MLK1	P
14.72	2	24	97	14q24.3-q31.1	CERD4	P
14.73	4	25	93	14q24.3-q32.1	GALC	C
14.74	9	2	96	14q31	OGR1	P
14.75	3	20	95	14q31	TSHR	C
14.76	12	24	89	14q32	CHGA	C
14.77	4	30	91	14q32	CKB, CKBB	C
14.78	10	23	87	14q32	CKBE	P
14.79	10	20	92	14q32	CRIP	L
14.8	11	22	94	14q32	DNECL	P
14.81	12	17	95	14q32	IFI27	P
14.82	6	5	90	14q32	SIV	L
14.83	6	5	94	14q32	USH1A, USH1	C
14.84	3	23	95	14q32.1	AACT	C
14.85	4	25	93	14q32.1	CBG	C
14.86	10	15	94	14q32.1	GSC	P
14.87	4	25	93	14q32.1	PCI, PLANH3	C
14.88	5	1	90	14q32.1	PI, AAT	C
14.89	1	11	89	14q32.1	TCL1	C
14.9	2	11	96	14q32.1-q32.2	BDKRB1	P
14.91	2	11	96	14q32.1-q32.2	BDKRB2	C
14.92	4	10	90	14q32.3	AKT1	C
14.93	3	20	95	14q32.3	BST1	P
14.94	6	8	89	14q32.3	ELK2	P
14.95	11	4	93	14q32.3	HSPCAL4	C
14.96	9	9	96	14q32.3	KNS2	C
14.97	9	12	95	14q32.3	XRCC3	P
14.98	9	26	96	14q32.31	WARS	C
14.99	10	23	87	14q32.33	IGH@	C
14.1	9	15	89	14q32.33	IGD1	C
14.101	10	23	87	14q32.33	IGHA1	C
14.102	10	23	87	14q32.33	IGHA2	C
14.103	4	30	91	14q32.33	IGHD	C
14.104	10	23	87	14q32.33	IGHE	C
14.105	10	23	87	14q32.33	IGHEP1	C
14.106	10	23	87	14q32.33	IGHG1	C
14.107	10	23	87	14q32.33	IGHG2	C

14.108	4	30	91	14q32.33	IGHG3	C
14.109	10	23	87	14q32.33	IGHG4	C
14.11	9	15	89	14q32.33	IGHJ	C
14.111	12	13	96	14q32.33	IGHM, MU	C
14.112	9	15	89	14q32.33	IGHR	L
14.113	10	23	87	14q32.33	IGHV@	C
14.114	9	26	96	Chr.14	CFL2	P
14.115	9	15	93	Chr.14	COX7A3	P
14.116	10	23	87	Chr.14	ESAT	P
14.117	6	14	95	Chr.14	ERVT1, TRV1	P
14.118	12	29	89	Chr.14	FPSL3	P
14.119	1	12	89	Chr.14	K12T	C
14.12	10	23	87	Chr.14	LCH	C
14.121	10	23	87	Chr.14	M195	P
14.122	9	10	92	Chr.14	MPS3C	L
14.123	2	4	97	Chr.14	P2RY7	P
14.124	6	5	94	Chr.14	PI4, KLST	P
14.125	6	11	92	Chr.14	RMCH	P
14.126	9	7	90	Chr.14	RNS1	L
14.127	4	10	97	Chr.14	RNS5, RNS4	P
14.128	7	13	92	Chr.14	RPL36A	P
14.129	4	23	96	Chr.14	SIX1	P
14.13	8	23	94	Chr.14	SLC10A1, NTCP1	P
15.1	4	26	90	15p12	RNR3	C
15.2	9	9	90	15q11	PWCR, PWS	C
15.3	7	17	91	15q11-q12	IGHDY2	P
15.4	10	23	87	15q11-q12	MIC7	P
15.5	1	25	93	15q11-q13	AHO2	L
15.6	11	8	96	15q11-q13	IPW	P
15.7	10	23	87	15q11-q13	ITO	L
15.8	1	25	93	15q11-q13	MANA1	C
15.9	11	13	94	15q11-q13	D15S227E, PAR1	P
15.1	11	13	94	15q11-q13	D15S226E, PAR5	P
15.11	2	20	97	15q11-q13	UBE3A, ANCR	C
15.12	3	27	92	15q11-q15	SGNE1	P
15.13	10	29	91	15q11-q22	MIC12	P
15.14	7	5	92	15q11-qter	HCVS	P
15.15	3	20	95	15q11.1	SPG6	P
15.16	7	13	93	15q11.2-q12	GABRB3	C
15.17	1	9	95	15q11.2-q12	GABRA5	C
15.18	1	9	95	15q11.2-q12	GABRG3	P
15.19	11	17	94	15q11.2-q12	OCA2, P, PED, D15S12	C
15.2	12	16	93	15q12	SNRPN	P
15.21	2	18	96	15q13	TJP1	P

15.22	1	24	93	15q13-q14	LD, FMN	C
15.23	4	24	96	15q13-q15	ACCPN	P
15.24	10	23	87	15q13-q15	B2MR	C
15.25	5	16	95	15q13-q22	FGF7	P
15.26	11	13	94	15q13-qter	MAP1A	P
15.27	7	11	95	15q14	ACTC	C
15.28	3	19	94	15q14	CHRNA7	C
15.29	10	23	87	15q14-q15	IVD	P
15.3	11	4	93	15q14-q15	RYR3	C
15.31	3	1	94	15q14-q21	FDPSL4, FPSL4	P
15.32	10	16	92	15q14-q21	ITPKA	P
15.33	1	9	95	15q15	CKMT1	C
15.34	4	25	93	15q15	EPB42	C
15.35	6	6	94	15q15	SORD	C
15.36	6	5	90	15q15	THBS1	P
15.37	1	12	95	15q15-q12	MFAP1	P
15.38	10	23	87	15q15-q21	CHR39B	P
15.39	12	3	96	15q15-q21	DFNA8	P
15.4	7	8	96	15q15-q21.1	SLC12A1, NKCC2	C
15.41	3	19	94	15q15.1	RECA, RAD51	C
15.42	11	2	95	15q15.1-q21.1	CAPN3, CANP3	C
15.43	1	9	95	15q15.1-q21.1	LTK, TYK1	C
15.44	6	14	95	15q15.1-q21.1	TYRO3	C
15.45	3	20	95	15q21	CDAN3, CDA3	P
15.46	5	17	95	15q21	MYH12	C
15.47	5	17	95	15q21	TCF12, TCF4, HTF4	P
15.48	3	19	91	15q21-q22	ANX2, ANX2L4, LPC2D, LIP2	C
15.49	10	23	87	15q21-q22	B2M	C
15.5	1	9	95	15q21-q22	HDC	C
15.51	11	12	96	15q21-q22	MYO1C	P
15.52	2	18	96	15q21-q22	RORA	P
15.53	1	18	95	15q21-q23	LIPC	C
15.54	5	18	90	15q21.1	CYP19, ARO	C
15.55	2	2	96	15q21.1	FBN1, MFS1	C
15.56	1	9	95	15q21.6	GPR1	P
15.57	7	17	91	15q22	PKM2, PK3	C
15.58	5	28	91	15q22	PML, MYL	P
15.59	12	17	95	15q22	SRP14	P
15.6	2	11	96	15q22	TLE3, ESG	C
15.61	5	17	95	15q22	TPM1, CMH3	C
15.62	3	1	94	15q22-q24	CYP1A1, CYP1	P
15.63	4	18	97	15q22-q25	MRG1	P
15.64	6	27	94	15q22-qter	CRABP1, RBP5	P
15.65	5	18	90	15q22-qter	CYP1A2	P

15.66	10	23	87	15q22-qter	MPI	C
15.67	1	9	95	15q22-qter	NMB	C
15.68	3	20	95	15q22.3-q23	BBS4	C
15.69	12	9	95	15q22.3-q23	PHAP1	P
15.7	4	21	97	15q23-q24	CYP11A, P450SCC	C
15.71	7	11	91	15q23-q24	HEXA, TSD	C
15.72	8	14	92	15q23-q25	CSK	P
15.73	6	13	93	15q23-q25	ETFA, GA2	P
15.74	4	30	91	15q23-q25	FAH	C
15.75	7	5	92	15q24	CHRNA3	C
15.76	7	5	92	15q24	CHRNA5	C
15.77	7	5	92	15q24	CHRNB4	C
15.78	1	9	94	15q24-q25	CTSH	P
15.79	11	4	93	15q24-q25	LOXL	P
15.8	1	9	95	15q24-q25	NTRK3, TRKC	P
15.81	3	15	91	15q24-q25	THBP1	P
15.82	1	17	96	15q25	MANA2X	P
15.83	12	16	93	15q25-q26	ANPEP, PEPN, CD13	C
15.84	3	15	91	15q25-q26	IGF1R	C
15.85	6	29	92	15q25-q26	PACE, FUR, PCSK3	C
15.86	4	9	96	15q25.1-q25.2	IDH3A	P
15.87	12	4	90	15q26	CHRM5	P
15.88	3	26	95	15q26	IDDM3	C
15.89	11	8	95	15q26	MEF2A2, MEF2A	C
15.9	4	25	93	15q26	PACE4, PCSK6	C
15.91	12	3	91	15q26	RLBP1	P
15.92	7	13	93	15q26.1	AGC1, CSPG1, MSK16	C
15.93	1	24	93	15q26.1	BLM, BS	C
15.94	7	13	93	15q26.1	FES	C
15.95	4	9	96	15q26.1	IDH2	C
15.96	12	13	95	15q26.1-q26.2	TFCOUP2, ARP1	P
15.97	2	22	92	Chr.15	CDC2L2	P
15.98	4	26	90	Chr.15	COL1AR	P
15.99	12	13	95	Chr.15	EEF1B1	P
15.1	10	23	87	Chr.15	GANC	P
15.101	1	24	93	Chr.15	GALK2, GK2	P
15.102	12	4	90	Chr.15	IREB2	P
16.1	1	12	89	16pter-p13.3	HBAC@	C
16.2	1	12	89	16pter-p13.3	HBA1	C
16.3	9	15	89	16pter-p13.3	HBA2	C
16.4	1	12	89	16pter-p13.3	HBQ1	P
16.5	7	17	91	16pter-p13.3	HBZ	P
16.6	6	11	93	16pter-p13.3	HBHR, ATR1	C
16.7	10	15	95	16pter-p13.3	MPG, MDG	P

16.8	1	23	97	16pter-p11	PDES1B, PDE1B	P
16.9	1	26	97	16peter-p11	ZNF75A	P
16.1	9	22	96	16p13.31-p13.12	PKD1	C
16.11	11	8	95	16p13.31-p13.12	ERV1	P
16.12	1	7	93	16p13.3	CATM	P
16.13	1	12	95	16p13.3	CCNF	P
16.14	12	4	95	16p13.3	CREBBP, CBP, RSTS	C
16.15	1	17	95	16p13.3	DCI	P
16.16	11	9	95	16p13.3	CGTHBA	P
16.17	1	1	96	16p13.3	DNL1	P
16.18	5	23	94	16p13.3	HMOX2	P
16.19	6	14	95	16p13.13	IMPDHL1	P
16.2	10	12	90	16p13.3	PGP	C
16.21	1	12	95	16p13.3	PKDTS	P
16.22	8	22	90	16p13.3	PRM1	C
16.23	8	22	90	16p13.3	PRM2	C
16.24	5	17	95	16p13.3	SSTR5	C
16.25	4	25	93	16p13.3	TNP2	C
16.26	3	19	94	16p13.3	TSC2	C
16.27	2	24	97	16p13.3	UBE2I	C
16.28	9	22	96	16p13.3-p13.2	CDG1	P
16.29	10	15	94	16p13.3-p13.13	ERCC4	C
16.3	10	28	96	16p13.2-p13.1	XPF	C
16.31	9	22	93	16p13.13-p13.12	MYH11	C
16.32	6	29	94	16p13.11	SAH	P
16.33	3	22	93	16p13.11-p12.3	CRYM	P
16.34	10	15	94	16p13.11-p12.3	UMOD	P
16.35	1	24	93	16p13.1	BCMA	P
16.36	8	17	92	16p13.1	GSPT1	P
16.37	2	11	93	16p13.1	MRP1	P
16.38	8	21	91	16p13.1-p12	CDR2	P
16.39	6	20	94	16p13	GRIN2A, NMDAR2A	P
16.4	10	12	90	16p13	HAGH, GLO2	C
16.41	8	31	92	16p13	MEF, FMF	C
16.42	4	1	96	16p13-p12	SCNN1B	C
16.43	7	8	96	16p13-p12	SCNN1G, PHA1	C
16.44	10	15	95	16p13	TFAP4	L
16.45	7	11	95	16p12.1	CLN3, BTS	C
16.46	6	6	91	16p12.1-p11.2	IL4R	P
16.47	4	11	94	16p12.1-p11.2	PHKG2	P
16.48	3	1	94	16p12.1-p11.2	STP, PST	P
16.49	10	8	96	16p12	ATP2A1, SERCA1	C
16.5	3	1	94	16p12	UQCRC2	P
16.51	2	29	96	16p11.2	CD19	P

16.52	4	1	96	16p11.2	PRSS8	P
16.53	4	11	97	16p12-q13	IBD1	P
16.54	1	6	97	16p12-q21	ACUG, BLAU	P
16.55	7	13	93	16p11.2	FUS	C
16.56	6	11	92	16p11.2	ITGAL, CD11A, LFA1A	C
16.57	6	11	92	16p11.2	ITGAM, CR3A, CD11B, MAC1A	C
16.58	1	9	94	16p11.2	ITGAX, CD11C	P
16.59	8	13	91	16p11.2	PRKCB1, PKCB	P
16.6	3	19	94	16p11.2	SGLT2	P
16.61	9	28	96	16p11.2	SLC6A10, CT2	P
16.62	10	12	90	16p11.2	SPN, LSN, CD43	C
16.63	7	10	95	16p11.2	STM	C
16.64	11	12	96	16p11.2	STX1B	P
16.65	1	1	96	16p11.2-p12	RBBP6	P
16.66	12	9	91	16p11	ZNF44, KOX7	P
16.67	7	12	92	16q	CAR	P
16.68	9	2	96	16q	WT3	P
16.69	3	21	95	16q12-q13	ADCY7	P
16.7	1	8	97	16q12-q13	CYLD1, CDMT, EAC	P
16.71	1	2	91	16q12-q13.1	PHKB	C
16.72	3	19	94	16q12.1	TBS	L
16.73	7	13	93	16q12.2	NAT1	C
16.74	5	23	94	16q12.2	RBL2	P
16.75	9	14	95	16q13	CNCG3L	P
16.76	8	31	92	16q13	GNAO1	P
16.77	11	15	94	16q13	MMP2, CLG4A	C
16.78	2	23	92	16q13	MT1A	C
16.79	2	23	92	16q13	MT1B	C
16.8	2	23	92	16q13	MT1E	C
16.81	2	23	92	16q13	MT1F	C
16.82	2	23	92	16q13	MT1G	C
16.83	2	23	92	16q13	MT1H	C
16.84	2	23	92	16q13	MT1I	C
16.85	2	23	92	16q13	MT1J	C
16.86	2	23	92	16q13	MT1K	C
16.87	2	23	92	16q13	MT1L	C
16.88	2	23	92	16q13	MT1X	C
16.89	2	23	92	16q13	MT2	C
16.9	12	16	93	16q13	MT3, GIFB	C
16.91	5	15	96	16q13	SLC12A3, NCCT, TSC	C
16.92	5	23	94	16q13-q21	POLR2C	P
16.93	3	15	92	16q13-q22.1	CES1, SES1	P
16.94	1	9	94	16q21	BBS2	C
16.95	4	26	90	16q21	CETP	P

16.96	4	26	90	16q21	GOT2	C
16.97	10	27	89	16q21-q23	CA7	P
16.98	2	15	96	16q22	AARS	P
16.99	5	17	95	16q22	CBFB	C
16.1	8	30	95	16q22	HSD11B2, HSD11K	C
16.101	4	10	97	16q22	MCDC2	P
16.102	9	26	96	16q22	RRAD	P
16.103	2	9	92	16q22	ZNF19, KOX12	P
16.104	11	4	93	16q22	ZNF23, KOX16	P
16.105	10	15	95	16q22-q23	GLG1	P
16.106	8	11	91	16q22-q23	MAF	P
16.107	9	9	96	16q22-q23	SNT2B2	C
16.108	1	17	95	16q22-q24	ALDOA	C
16.109	3	8	91	16q22-qter	COX4	P
16.11	6	28	94	16q22.1	CALB2	P
16.111	3	26	96	16q22.1	CDH1, UVO	C
16.112	5	3	95	16q22.1	CDH3, CDHP, PCAD	P
16.113	3	14	96	16q22.1	CDH5	L
16.114	9	9	90	16q22.1	CTM	C
16.115	11	4	93	16q22.1	CTRL	P
16.116	6	6	91	16q22.1	DIA4, NMOR1	C
16.117	10	2	95	16q22.1	E2F4	P
16.118	10	23	87	16q22.1	HP	C
16.119	1	12	89	16q22.1	HPR	C
16.12	2	9	92	16q22.1	LCAT	C
16.121	11	4	93	16q22.1	MECL1	P
16.122	10	27	93	16q22.1	PSKH1	P
16.123	9	22	96	16q22.1	SCA4	P
16.124	6	27	95	16q22.1	SLC9A5, NHE5	P
16.125	1	28	88	16q22.1-q22.3	TAT	C
16.126	11	5	95	16q22.3-q23.1	ATBF1	P
16.127	9	28	96	16q23-q24	KARS	P
16.128	2	22	92	16q23-q24	MOV34	P
16.129	6	21	91	16q23.2-q23.3	CTRB	C
16.13	10	23	87	16q24	APRT	C
16.131	3	31	97	16q24	CDH13, CDHH	P
16.132	7	9	90	16q24	CYBA	C
16.133	4	24	96	16q24	FKHL5	P
16.134	1	12	95	16q24.1	PLCG2	P
16.135	7	11	95	16q24.1-q24.2	HSD17B2, EDH17B2	C
16.136	6	14	95	16q24.1-qter	CDH14, CDH3	P
16.137	2	18	96	16q24.3	CA5	C
16.138	1	14	97	16q24.3	D16S469E, MPE16	P
16.139	4	25	93	16q24.3	DPEP1, RDP	C

16.14	11	12	96	16q24.3	FACA, FA1, FA, FAA	C
16.141	4	25	93	16q24.3	GALNS, MPS4A	C
16.142	11	2	95	16q24.3	MC1R	C
16.143	7	8	96	Chr.16	ALR	P
16.144	7	11	95	Chr.16	CDH11, CAD11	L
16.145	3	15	92	Chr.16	CSNK2A2	P
16.146	10	23	87	Chr.16	CTH	P
16.147	10	23	87	Chr.16	ESB3	P
16.148	10	23	87	Chr.16	GCF2	P
16.149	6	14	95	Chr.16	GRLL1	P
16.15	8	21	91	Chr.16	IFNR	P
16.151	10	23	87	Chr.16	LIPB	P
16.152	1	8	95	Chr.16	SNTL, EST25263, D16S2531E	P
16.153	10	23	87	Chr.16	NHCP1	P
16.154	9	29	96	Chr.16	STP2	P
16.155	10	23	87	Chr.16	TK2	P
16.156	4	28	90	Chr.16	TRG1	P
16.157	11	29	90	Chr.16	TPS1	P
16.158	11	29	90	Chr.16	TPS2	P
16.159	7	17	91	Chr.16	VDI, DIPI	P
17.1	3	20	94	17pter-p13.1	PEDF	P
17.2	3	31	94	17pter-p13	ASPA	P
17.3	2	2	90	17pter-p12	ENO3	C
17.4	6	11	91	17pter-p12	GP1BA	P
17.5	3	19	92	17pter-p12	PLI	P
17.6	12	4	90	17pter-p12	SYB2	P
17.7	10	12	90	17pter-p12	ZFP3	P
17.8	3	26	95	17p13.3	ABR	C
17.9	1	23	96	17p13.3	BCPR	P
17.1	11	4	93	17p13.3	CRK	P
17.11	3	3	97	17p13.3	PAFAH, LIS1	C
17.12	9	15	89	17p13.3	MDCR, MDS	C
17.13	4	11	94	17p13.3	OLFR1	C
17.14	3	28	90	17p13.3	PFN1	P
17.15	11	13	94	17p13.3	PITPN	P
17.16	2	26	96	17p13.3	RP13	C
17.17	4	11	94	17p13.3	RPA1	P
17.18	12	10	91	17p13.105-p13.100	TRK1	C
17.19	12	10	91	17p13.105-p13.100	TRL2	C
17.2	12	10	91	17p13.105-p13.100	TRQ1	C
17.21	1	25	93	17p13.1	ALOX12	C
17.22	1	24	93	17p13.1	MYH1	C
17.23	1	24	93	17p13.1	MYH2	C
17.24	1	24	93	17p13.1	MYH3	C

17.25	10	4	93	17p13.1	MYH4	P
17.26	10	4	93	17p13.1	MYH8	P
17.27	4	27	93	17p13.1	POLR2A, RPOL2	C
17.28	5	10	93	17p13.1	RCV1	C
17.29	1	2	91	17p13.1	TP53	C
17.3	7	13	90	17p13.1-p12	MDB	P
17.31	9	12	95	17p13.1-q25	NOS2B	P
17.32	9	12	95	17p13.1-q25	NOS2C	P
17.33	11	27	94	17p13	ARRB2	P
17.34	4	23	96	17p13	CTAA2	P
17.35	12	3	96	17p13	GUC2D, GUCSD, LCA1	C
17.36	1	24	93	17p13	MYH10	P
17.37	11	28	94	17p13	SLC2A4, GLUT4	P
17.38	9	29	96	17p13	SOX20	P
17.39	11	11	91	17p13-p11	ASGR1	P
17.4	2	18	96	17p13-p12	CORD5	P
17.41	12	17	95	17p13-p12	EIF5A	P
17.42	6	21	91	17p13-p12	SHBG, ABP	P
17.43	10	4	93	17p13-p12	ZNF18, KOX11	C
17.44	10	12	90	17p13-p12	ZNF29	P
17.45	3	26	95	17p12-p11.2	ADORA2B	P
17.46	12	20	96	17p12-p11.2	LLGL	C
17.47	1	27	97	17p12-p11.2	TOP3	P
17.48	3	27	90	17p12-p11.1	UBB	P
17.49	9	8	90	17p12-p11	CHRNB1, ACHRB	C
17.5	3	27	95	17p11.2	ALDH3	C
17.51	3	26	95	17p11.2	FLI	P
17.52	4	9	96	17p11.2	MFAP4	P
17.53	3	12	96	17p11.2	PMP22, CMT1A	C
17.54	9	22	93	17p11.2	RNU3	P
17.55	7	8	96	17p11.2	SERK1	P
17.56	7	13	93	17p11.2	SHMT1	C
17.57	1	9	96	17p11.2	SLS, FALDH	C
17.58	9	22	93	17p11.2	SMCR	C
17.59	1	10	96	17p11.2	SREBF1	P
17.6	7	8	96	17p11.2-p11.13	ACADVL, VLCAD	C
17.61	12	3	96	17p11.2-q12	DFNB3	P
17.62	3	19	91	17p11-qter	ACTG1	P
17.63	1	2	91	17p	ASGR2	L
17.64	4	12	92	17p	ATP1B2, AMOG	P
17.65	1	26	97	17p	CACD	P
17.66	7	12	95	17p	CTNS	P
17.67	10	22	96	17p	RCD2	P
17.68	9	12	95	17cen-q11.2	NOS2A	C

17.69	9	15	89	17cen-q12	ALDOC	C
17.7	3	27	90	17cen-q21.3	TCF2, HNF2	C
17.71	10	8	88	17cen-qter	HTLVR	P
17.72	12	2	91	17q	PRS17L2, RPS17B	P
17.73	2	21	96	17q	PSORS2, PSS1	P
17.74	3	26	95	17q11	RPL19	C
17.75	8	7	92	17q11	VTN, VNT	P
17.76	12	3	95	17q11-q12	CCZS	P
17.77	10	4	91	17q11-q12	M17S1, ECS1, ESA1	C
17.78	12	3	91	17q11-q21	SCYA3	C
17.79	7	9	90	17q11-q21	TCP228	P
17.8	9	11	91	17q11-qter	CLTC	P
17.81	5	8	96	17q11-qter	CYB561	P
17.82	7	12	95	17q11-qter	ITGB4	P
17.83	11	5	95	17q11.1-q12	CRYBA1, CRYB1	C
17.84	12	13	96	17q11.1-q12	SLC6A4, HTT	C
17.85	3	6	92	17q11.2	EVI2A, EVI2, EVDA	C
17.86	3	4	92	17q11.2	EVI2B, EVDB	C
17.87	9	15	96	17q11.2	NCC1	P
17.88	9	15	96	17q11.2	NCC2	P
17.89	9	15	96	17q11.2	NCC3	P
17.9	9	15	96	17q11.2	NCC4	P
17.91	9	22	93	17q11.2	NF1, VRNF, WSS	C
17.92	8	13	91	17q11.2	OMG, OMGP	C
17.93	9	15	96	17q11.2	SCYA3L1, LD78	P
17.94	7	8	96	17q11.2	SUPT6H	P
17.95	7	18	91	17q11.2	THRA1, ERBA1	C
17.96	4	10	97	17q11.2-q12	CLAPB1	P
17.97	7	8	89	17q11.2-q12	CSF3, GCSF	C
17.98	6	21	91	17q11.2-q12	SCYA2, MCP1	C
17.99	10	1	90	17q11.2-q12	SCYA5, D17S136E	P
17.1	10	15	94	17q11.2-q12	SCYA7, MCP3	P
17.101	10	15	94	17q11.2-q24	MHS2	P
17.102	4	7	97	17q12	NEUROD2	P
17.103	3	4	94	17q12	RARA	C
17.104	9	14	95	17q12-q21	ARF4L	P
17.105	9	14	95	17q12-q21	DLG2	P
17.106	3	3	94	17q12-q21	ERBB2, NGL, NEU, HER2	C
17.107	11	18	96	17q12-q21	HSD17B1, EDH17B2	C
17.108	3	4	94	17q12-q21	IGFBP4	P
17.109	3	3	94	17q12-q21	KRT9, EPPK	C
17.11	2	12	96	17q12-q21	KRT14, EBS3, EBS4	P
17.111	1	23	96	17q12-q21	KRT16	C
17.112	5	14	96	17q12-q21	KRT17, PCHC1	C

17.113	3	3	94	17q12-q21	PPY	C
17.114	3	27	95	17q12-q21	WD1	P
17.115	9	2	96	17q12-q21	WT4	P
17.116	1	12	95	17q12-q21.2	EBI1	P
17.117	2	16	95	17q12-q21.33	ADL, DAG2, LGMD2D	C
17.118	10	15	95	17q12-q22	CRHR1, CRHR	P
17.119	10	27	89	17q12-q22	PTMS	P
17.12	4	11	94	17q12-q23.2	CDC27	P
17.121	5	17	90	17q21	ACAC, ACC	C
17.122	5	17	95	17q21	BRCA1	C
17.123	7	13	93	17q21	CNP	C
17.124	9	14	95	17q21	ETV4	P
17.125	1	14	97	17q21	DUSP3, VHR	C
17.126	2	24	97	17q21	FGF11, FHF3	P
17.127	3	27	95	17q21	G6PT	C
17.128	3	3	94	17q21	GAS, GAST	C
17.129	8	11	91	17q21	GFAP	C
17.13	1	8	97	17q21	IFI35	C
17.131	9	11	95	17q21	JUP, DP3, PDGB	P
17.132	10	4	93	17q21	MAPT, MTBT1	C
17.133	11	13	94	17q21	MOX1	C
17.134	11	7	95	17q21	NAGLU	P
17.135	8	11	91	17q21	PHB	C
17.136	2	19	96	17q21	PPND	P
17.137	1	8	97	17q21	RHO7	P
17.138	3	27	95	17q21	VPP1	C
17.139	10	4	93	17q21	WNT3, INT4	C
17.14	5	25	88	17q21-q22	A12M4	C
17.141	6	29	94	17q21-q22	CACNLB1, CCHLB1	P
17.142	1	12	95	17q21-q22	DDPAC	P
17.143	10	4	93	17q21-q22	DI	P
17.144	8	22	90	17q21-q22	HOXB@, HOX2@	C
17.145	1	20	95	17q21-q22	HOXB1, HOX2I	C
17.146	1	20	95	17q21-q22	HOXB2, HOX2H	C
17.147	1	20	95	17q21-q22	HOXB3, HOX2G	C
17.148	1	20	95	17q21-q22	HOXB4, HOX2F	C
17.149	1	20	95	17q21-q22	HOXB5, HOX2A	C
17.15	1	20	95	17q21-q22	HOXB6, HOX2B	C
17.151	1	20	95	17q21-q22	HOXB7, HOX2C	C
17.152	1	20	95	17q21-q22	HOXB8, HOX2D	C
17.153	1	20	95	17q21-q22	HOXB9, HOX2E	C
17.154	9	12	92	17q21-q22	KRT10	C
17.155	1	5	96	17q21-q22	KRT13	P
17.156	10	4	91	17q21-q22	KRT15	C

17.157	6	6	89	17q21-q22	NGFR	C
17.158	10	21	92	17q21-q22	PENT, PNMT	C
17.159	11	28	88	17q21-q22	RNU2	C
17.16	10	15	95	17q21-q22	SHCL1	P
17.161	11	28	94	17q21-q22	SLC4A1, AE1, EPB3	C
17.162	7	12	95	17q21-q22	SYM1	P
17.163	6	11	92	17q21-q22	TOP2A, TOP2	C
17.164	3	19	93	17q21-q23	SCYA4, ACT2	C
17.165	12	10	95	17q21-q24	MKS, MES	P
17.166	6	28	94	17q21.1	ACLY	C
17.167	8	23	94	17q21.1	M17S2, CA125	C
17.168	1	12	95	17q21.1-q21.3	GPR2	P
17.169	5	17	95	17q21.3	NFE2L1, NRF1	C
17.17	5	27	93	17q21.3	NME1, NM23	C
17.171	5	27	93	17q21.3	NME2	C
17.172	5	17	95	17q21.3-q22	DLX3	P
17.173	3	20	94	17q21.3-q22	GIP	C
17.174	12	9	95	17q21.3-q22	SFRS1	P
17.175	1	7	93	17q21.31-q22.05	COL1A1	C
17.176	1	9	94	17q21.32	ITGA2B, GP2B, CD41B	C
17.177	3	15	92	17q21.32	ITGB3, GP3A	C
17.178	2	22	92	17q22	BCL5	P
17.179	6	27	95	17q22	TCF11	P
17.18	1	12	95	17q22-q23	COII, CLN80	P
17.181	3	22	93	17q22-q23	TNFAIP1	P
17.182	2	9	92	17q22-q23.2	PRKCA, PKCA	C
17.183	9	16	88	17q22-q24	GHC@	C
17.184	7	18	91	17q22-q24	CSH1, CSA, PL	C
17.185	7	18	91	17q22-q24	CSH2, CSB	C
17.186	10	16	89	17q22-q24	GH1, GHN	C
17.187	9	16	88	17q22-q24	GH2, GHV	C
17.188	7	13	93	17q23	CA4	P
17.189	1	7	93	17q23	DCP1, ACE1	C
17.19	5	27	93	17q23	IGB, B29	P
17.191	9	15	96	17q23	PECAM1	P
17.192	2	19	97	17q23	TBX2	C
17.193	12	8	94	17q23-q24	PRKAR1A, TSE1	C
17.194	3	4	96	17q23-q25	DDX5, HLR1, G17P1	C
17.195	10	4	91	17q23-q25	ICAM2	P
17.196	8	23	90	17q23-q25	UMPH2	C
17.197	9	13	92	17q23-qter	APOH	C
17.198	10	23	87	17q23-qter	PEPE	C
17.199	1	12	95	17q23-qter	TOC, TEC	C
17.2	10	15	95	17q23.1	MPO	C

17.201	3	23	95	17q23.1	ZNF147, EFP	C
17.202	1	7	93	17q23.1-q25.3	SCN4A, HYPP, NAC1A	C
17.203	11	4	93	17q24	CACNLG	C
17.204	5	3	95	17q24	CCA1	P
17.205	7	4	95	17q24	GALK1	C
17.206	4	25	93	17q24	SSTR2	C
17.207	10	27	92	17q24-q25	FDXR, ADXR	C
17.208	11	13	94	17q24-q25	GRB2	C
17.209	10	22	96	17q24-q25	PRPSAP1	P
17.21	2	24	97	17q24-q25	PSMC5, TRIP1	P
17.211	11	12	96	17q24.3-q25.1	SOX9, CMD1, SRA1	C
17.212	9	28	96	17q25	AANAT, SNAT	P
17.213	10	15	94	17q25	ACOX	C
17.214	10	22	95	17q25	CSNK1D	C
17.215	7	13	93	17q25	D17S811E, SEC7	P
17.216	1	21	97	17q25	EVPL	P
17.217	1	12	95	17q25	FASN	P
17.218	4	11	94	17q25	GCGR	P
17.219	6	20	94	17q25	GRIN2C, NMDAR2C	P
17.22	2	16	96	17q25	H3F3B	P
17.221	7	12	92	17q25	ILF	P
17.222	7	12	95	17q25	LGALS3BP	P
17.223	8	21	91	17q25	P4HB, PROHB	C
17.224	1	23	97	17q25	PDE6G, PDEG	C
17.225	10	15	95	17q25	RP17	P
17.226	5	26	94	17q25	RSS	P
17.227	9	22	93	17q25	TIMP2	P
17.228	1	6	97	17q25.1-q25.2	SEC14L	P
17.229	1	2	91	17q25.2-q25.3	CD7	C
17.23	3	8	96	17q25.2-q25.3	GAA	C
17.231	3	8	96	17q25.2-q25.3	TK1	C
17.232	9	12	96	17q25.3	MPS3A, SFMD	P
17.233	3	4	94	Chr.17	CHRNE	P
17.234	4	10	90	Chr.17	G6PDL	P
17.235	1	24	93	Chr.17	GRN	P
17.236	6	5	90	Chr.17	KRT19	P
17.237	1	1	96	Chr.17	LIG3	P
17.238	4	10	90	Chr.17	MYL4	C
17.239	7	13	93	Chr.17	PYCR1	P
17.24	1	3	91	Chr.17	SCYA1	P
17.241	9	28	96	Chr.17	SCYA11	P
17.242	12	9	95	Chr.17	SFRS2	L
18.1	6	14	94	18pter-p11.21	ERV1	C
18.2	1	28	88	18p11.32	MCL	L

18.3	10	20	92	18p11.32	TYMS, TS, TMS	C
18.4	6	1	94	18p11.31	LAMA1	P
18.5	10	22	95	18p11.31-p11.2	NDUFV2	C
18.6	4	9	96	18p11.3	HPE4	P
18.7	4	25	93	18p11.3	YES1	C
18.8	7	13	93	18p11.3-p11.2	PTPN2, PTPT	C
18.9	3	26	96	18p11.2	EIF4A2	P
18.1	10	28	93	18p11.2	MC2R	C
18.11	5	17	95	18p11.2	MC5R	P
18.12	11	4	93	18p11.2	PTPRM, PTPRL1, RPTPM	C
18.13	7	13	93	18p11	ADCYAP1	P
18.14	1	4	96	18p	BPAD, MFAD1, MD1	P
18.15	6	14	95	18q	TGFBRE, TGFR	P
18.16	7	8	96	18q11	TW	P
18.17	9	16	88	18q11-q12	LCFS2	L
18.18	4	24	96	18q11-q12	NPC, NPC1	C
18.19	1	8	97	18q11-q12	SLC14A1, JK, UTE, UT1	C
18.2	2	20	97	18q11.1-q11.2	GATA6	P
18.21	4	25	93	18q11.1-q11.2	HVBS7	P
18.22	1	14	97	18q11.2	LAMA3	P
18.23	11	6	94	18q11.2	NCAD	C
18.24	11	13	94	18q11.2	SSXT, SYT	C
18.25	12	13	96	18q11.2-q12.1	AQP4, MIWC	P
18.26	6	6	94	18q11.2-q12.1	TTR, PALB	C
18.27	10	1	90	18q12	ZNF24	P
18.28	6	29	94	18q12.1	DSC3	C
18.29	3	27	95	18q12.1	DSC4	C
18.3	1	26	97	18q12.1-q12.2	D18S892E, DRP3	P
18.31	5	26	94	18q12.1-q12.2	DSG1	C
18.32	5	26	94	18q12.1-q12.2	DSG2	C
18.33	5	26	94	18q12.1-q12.2	DSG3	C
18.34	1	8	97	18q12.1-q21.1	UT2, UTR	P
18.35	3	27	95	18q12.2-q12.3	MEP1B	P
18.36	10	23	87	18q21	GRP	C
18.37	1	21	97	18q21	MADH4, DPC4	P
18.38	8	29	96	18q21	JV18, SMAD2	P
18.39	1	21	97	18q21	MADH2	P
18.4	4	25	93	18q21	SSAV1	C
18.41	7	13	95	18q21-q22	BRIC	P
18.42	1	21	97	18q21-q22	PFIC1, ICPF	P
18.43	6	11	92	18q21-qter	GNAL	L
18.44	2	12	96	18q21.1	DPC4, SMAD4	P
18.45	7	13	95	18q21.1-q21.3	CORD1, CRD1	P
18.46	3	27	95	18q21.1-q22	FEO	P

18.47	1	30	91	18q21.2-q22	PLANH2, PAI2	C
18.48	1	30	91	18q21.3	BCL2	C
18.49	1	4	96	18q21.3	DCC	C
18.5	6	29	94	18q21.3	FECH, FCE	C
18.51	3	23	95	18q21.3	FVT1	P
18.52	5	17	95	18q21.3	PI5	P
18.53	5	17	95	18q21.3	SCCA1	C
18.54	5	17	95	18q21.3	SCCA2	P
18.55	12	20	96	18q21.3-q22	LMAN1	P
18.56	10	15	94	18q21.3-q22	MC4R	C
18.57	1	17	97	18q22	AQP4, MIWC	P
18.58	10	23	87	18q22-qter	MBP	C
18.59	5	29	91	18q22.1	GTS	L
18.6	3	22	95	18q23	CBLN2	L
18.61	3	20	94	18q23	CYB5	C
18.62	2	18	96	18q23	GALNR	P
18.63	5	17	95	18q23	NFATC1	P
18.64	10	23	87	18q23	PEPA	C
18.65	3	4	94	Chr.18	DSC1	P
18.66	10	16	89	Chr.18	NARS, ASNRS	P
19.1	10	23	87	19pter-p13.2	OK	P
19.2	10	23	87	19pter-q13	CXB3S	P
19.3	11	10	94	19pter-q12	EEF2, EF2	C
19.4	10	26	92	19p13.3	AZU1, CAP37	P
19.5	6	20	94	19p13.3	BSG	P
19.6	3	8	91	19p13.3	CAPS	P
19.7	6	14	94	19p13.3	CDC34	P
19.8	1	26	97	19p13.3	CLAC	P
19.9	6	14	95	19p13.3	ELA2	P
19.1	5	17	95	19p13.3	EMR1	P
19.11	4	25	93	19p13.3	FCER2, FCE2, CD23	C
19.12	5	17	96	19p13.3	FUT3, LE	C
19.13	5	17	95	19p13.3	FUT5	P
19.14	1	4	95	19p13.3	FUT6	P
19.15	11	22	94	19p13.3	GTF2F1, RAP74	P
19.16	6	9	95	19p13.3	GZMM	H
19.17	9	22	93	19p13.3	HHC2, FHH2	P
19.18	6	13	95	19p13.3	LMNB2, LMN2	P
19.19	1	1	96	19p13.3	LW	C
19.2	1	12	95	19p13.3	MLLT1, ENL	C
19.21	10	15	95	19p13.3	NFIC	P
19.22	6	13	95	19p13.3	NFIX, NF1A	C
19.23	2	20	97	19p13.3	PJS	P
19.24	5	27	94	19p13.3	POLR2E	P

19.25	1	24	93	19p13.3	PRTN3, AGP7	C
19.26	11	16	94	19p13.3	TBXA2R	C
19.27	4	25	93	19p13.3	TCF3, E2A	C
19.28	2	11	96	19p13.3	TLE1	P
19.29	2	11	96	19p13.3	TLE2	P
19.3	12	13	95	19p13.3-p13.2	AMH, MIF	P
19.31	3	15	92	19p13.3-p13.2	ATHS, ALP	P
19.32	10	23	87	19p13.3-p13.2	C3	C
19.33	9	13	92	19p13.3-p13.2	DNMT	C
19.34	3	23	93	19p13.3-p13.2	EPOR	C
19.35	4	25	93	19p13.3-p13.2	ICAM1	C
19.36	6	13	95	19p13.3-p13.2	ICAM3, CDW50	P
19.37	11	12	96	19p13.3-p13.2	MYO1D	P
19.38	10	15	94	19p13.3-p13.2	NAGR1	P
19.39	8	21	92	19p13.3-p13.2	RFX2	P
19.4	10	15	95	19p13.3-p13.2	SAP62	P
19.41	9	28	96	19p13.3-p13.2	ZNF20, KOX13	P
19.42	4	25	93	19p13.3-p13.2	VAV	C
19.43	9	28	96	19p13.3-p13.2	ZNF14, KOX6	P
19.44	3	20	94	19p13.3-p13.1	ACP5	C
19.45	6	8	95	19p13.2	BST2	P
19.46	8	21	91	19p13.2	CALR, SSA	P
19.47	6	6	94	19p13.2	GCDH	P
19.48	6	20	94	19p13.2	INSL3	P
19.49	4	25	93	19p13.2	INSR	C
19.5	4	25	93	19p13.2	JUNB	C
19.51	1	12	95	19p13.2	RAD23A, HHR23A	P
19.52	4	25	93	19p13.2	TYK2	C
19.53	4	10	97	19p13.2	U2AF1RS3	P
19.54	4	25	96	19p13.2-p13.12	CD97	P
19.55	10	23	87	19p13.2-p13.1	LDLR,FHC	C
19.56	4	25	93	19p13.2-p13.1	LYL1	C
19.57	1	12	95	19p13.2-p13.1	NOTCH3	P
19.58	6	21	91	19p13.2-cen	MEL	C
19.59	4	21	97	19p13.2-q12	PDE4A, DPDE2	C
19.6	2	9	92	19p13.2-q13.2	TNNI3, TNNC1	P
19.61	10	27	93	19p13.2-q13.3	LPSA, D19S381E	P
19.62	10	23	87	19p13.2-q13.4	DNL	P
19.63	9	23	96	19p13.11-p13.12	DHPS	C
19.64	4	24	96	19p13.1	CADASIL, CASIL	C
19.65	7	4	95	19p13.1	COMP, EDM1, MED, PSACH	P
19.66	4	23	96	19p13.1	ELL	C
19.67	1	9	95	19p13.1	RFX1	C
19.68	6	13	95	19p13.1	PTGER1	P

19.69	9	29	96	19p13.1	TPM4	P
19.7	4	25	93	19p13.1-p12	JUND	C
19.71	4	25	93	19p13.1-p12	RAB3A	C
19.72	3	20	94	19p13.1-p12	UBA52	P
19.73	10	23	87	19p13.1-q13.11	GEY	P
19.74	3	1	89	19p13.1-q13.11	HCL1, BRHC	P
19.75	5	27	93	19p13-q13.4	CD37	P
19.76	2	20	97	19p13	CACNL1A4	C
19.77	11	9	95	19p13	CDKN2D	P
19.78	6	12	92	19p13	GNA11	P
19.79	9	27	95	19p13	GNA15, GNA16	P
19.8	11	8	95	19p12	MEF2B	P
19.81	11	30	94	19p	EXT3	P
19.82	10	12	90	19p	FNRBL	P
19.83	7	13	93	19p	ZNF77	P
19.84	4	25	93	19p	ZNF121, D19S204	P
19.85	1	17	96	19cen-q12	MANB	C
19.86	11	11	91	19cen-q13.11	LU, AU	C
19.87	3	29	90	19cen-q13.11	PEPD	C
19.88	2	2	90	19cen-q13.2	A1BG	P
19.89	12	16	93	19cen-q13.2	AD2	C
19.9	4	25	93	19cen-q13.2	APLP1, APLP	P
19.91	4	21	97	19q	BFIC	P
19.92	7	13	92	19q	RPS11	P
19.93	5	17	95	19q	SYT3	P
19.94	3	19	93	19q11-q13.2	HPN	P
19.95	5	27	94	19q12	POLR2I	P
19.96	7	4	95	19q12	UQCRFS1	P
19.97	1	25	95	19q12-q13.1	NPHS1, CNF, NFC	P
19.98	1	12	89	19q12-q13.2	ATP1A3	C
19.99	9	8	90	19q13	APS	C
19.1	6	5	90	19q13	BCL3	C
19.101	10	25	90	19q13	CKM, CKMM	C
19.102	8	28	95	19q13	DFNA4	P
19.103	9	12	95	19q13	ECH1	P
19.104	5	30	90	19q13	KLK2	C
19.105	9	1	95	19q13	OFC3	P
19.106	8	11	91	19q13	PLAUR, URKR	P
19.107	10	16	95	19q13	USF2	L
19.108	10	12	90	19q13-qter	AAVS1	P
19.109	12	2	92	19q13.1	ATP4A, ATP6A	P
19.11	1	27	97	19q13.1	CCNE	C
19.111	7	13	93	19q13.1	CD22	P
19.112	9	12	92	19q13.1	CEBPA, CEBP	C

19.113	11	4	93	19q13.1	CLC	C
19.114	9	27	91	19q13.1	COX6B	P
19.115	4	25	93	19q13.1	GPI	C
19.116	4	25	93	19q13.1	MAG, GMA	C
19.117	1	6	97	19q13.1	ZNF146, OZF	P
19.118	9	22	93	19q13.1	RYR1, MHS, CCO	C
19.119	1	12	95	19q13.1	SCN1B	P
19.12	8	19	91	19q13.1	ZFP36, TTP	P
19.121	10	27	92	19q13.1-q13.2	AKT2	P
19.122	9	22	93	19q13.1-q13.2	AXL	C
19.123	4	10	90	19q13.1-q13.2	BCKDHA, MSUD1	C
19.124	11	17	94	19q13.1-q13.2	CORD2, CRD	P
19.125	7	13	95	19q13.1-q13.2	LIPE, LHS	C
19.126	9	13	92	19q13.1-q13.3	PSG1, PSBG1, B1G1, SP1	C
19.127	6	13	95	19q13.1-q13.3	PSG4	P
19.128	6	13	95	19q13.1-q13.3	PSG5	P
19.129	6	13	95	19q13.1-q13.3	PSG6	P
19.13	6	13	95	19q13.1-q13.3	PSG7	P
19.131	6	13	95	19q13.1-q13.3	PSG8	P
19.132	4	10	90	19q13.1-q13.3	TGFB1	P
19.133	10	23	87	19q13.1-qter	E11S	C
19.134	9	16	88	19q13.1-qter	RDRC, M7V1, M7VS1	C
19.135	9	29	96	19q13.11-q13.12	CKAP1	P
19.136	1	1	96	19q13.13-q13.2	BLVRB	P
19.137	10	16	95	19q13.2	APOC4	P
19.138	4	25	93	19q13.2	APOLP2@	C
19.139	4	25	93	19q13.2	APOE	C
19.14	4	25	93	19q13.2	APOC1	C
19.141	4	25	93	19q13.2	APOC2	C
19.142	9	13	92	19q13.2	BGP	C
19.143	10	4	91	19q13.2	CEA	C
19.144	4	25	93	19q13.2	CYP2A, P450C2A	C
19.145	4	25	93	19q13.2	CYP2B	C
19.146	4	25	93	19q13.2	CYP2F1	C
19.147	1	12	95	19q13.2	GRIK5	P
19.148	2	9	95	19q13.2	IGB	P
19.149	9	13	92	19q13.2	NCA	C
19.15	4	25	93	19q13.2	PSG2, PSBG2	C
19.151	6	13	95	19q13.2	PSG3	P
19.152	5	15	95	19q13.2	PSG11	P
19.153	5	15	95	19q13.2	PSG12	P
19.154	5	14	95	19q13.2	PSG13	P
19.155	4	25	93	19q13.2	XRCC1	C
19.156	7	13	93	19q13.2-q13.3	CALM3	C

19.157	9	22	93	19q13.2-q13.3	DM	C
19.158	4	25	93	19q13.2-q13.3	ERCC1, UV20	C
19.159	2	9	92	19q13.2-q13.3	ERCC2, EM9	C
19.16	2	15	96	19q13.2-q13.3	GPR4	P
19.161	5	17	95	19q13.2-q13.3	HB1, PFHB1	P
19.162	7	8	96	19q13.2-q13.3	KLC2	P
19.163	4	25	93	19q13.2-q13.3	LIG1	C
19.164	2	15	96	19q13.2-q13.3	MOK2	P
19.165	4	25	93	19q13.2-q13.3	PVS	C
19.166	3	20	94	19q13.2-q13.3	TRSP	C
19.167	3	31	97	19q13.2-q13.3	VASP	P
19.168	8	21	91	19q13.2-q13.4	KLK1, KLKR	C
19.169	9	15	96	19q13.2-q13.4	NUCB1	P
19.17	4	25	93	19q13.2-q13.4	ZNF42, MZF1	P
19.171	9	28	96	19q13.2-qter	ZNF13, KOX5	P
19.172	9	28	96	19q13.2-qter	ZNF27, KOX22	P
19.173	2	15	96	19q13.3	DBP	C
19.174	1	23	96	19q13.3	DMAHP	P
19.175	3	20	94	19q13.3	ETFB	C
19.176	9	23	96	19q13.3	FCGRT	P
19.177	6	11	92	19q13.3	FOSB	P
19.178	1	1	96	19q13.3	FUT1, H, HH	C
19.179	1	1	96	19q13.3	FUT2, SE	C
19.18	1	16	96	19q13.3	GIPR	C
19.181	4	25	93	19q13.3	GYS1, GYS	C
19.182	1	25	91	19q13.3	HRC	P
19.183	3	6	94	19q13.3	NGFG	P
19.184	7	13	93	19q13.3	NTF4, NT4	P
19.185	4	10	96	19q13.3	PPP5C, PP5	P
19.186	6	13	95	19q13.3	PTGIR	P
19.187	7	9	90	19q13.3	SNRP70, U1RNP, RNPU1Z, RPU1	C
19.188	7	26	95	19q13.3	SLC1A5	P
19.189	6	27	95	19q13.3	STD	C
19.19	5	17	95	19q13.3	UNR	P
19.191	5	17	95	19q13.3-q13.4	BAX	P
19.192	4	25	93	19q13.3-q13.4	CD33	C
19.193	12	17	95	19q13.3-q13.4	FTL	C
19.194	8	11	91	19q13.3-q13.4	IL11	P
19.195	6	20	94	19q13.3-q13.4	KCNC2	P
19.196	3	20	94	19q13.3-q13.4	KCNC3	C
19.197	9	12	92	19q13.3-q13.4	POLD1	C
19.198	10	15	94	19q13.3-q13.4	ZNF83	P
19.199	3	27	95	19q13.3-q13.4	ZNF160	P
19.2	10	23	87	19q13.32	CGB	C

19.201	2	9	92	19q13.32	LHB	C
19.202	1	8	97	19q13.32-q13.33	MIA	P
19.203	7	12	92	19q13.4	FCAR	P
19.204	10	15	94	19q13.4	LIM2, MP19	C
19.205	10	15	94	19q13.4	RP11	C
19.206	4	25	93	19q13.4	PRKCG, PKCC, PKCG	C
19.207	2	11	96	19q13.4	TNNT1	C
19.208	11	13	94	Chr.19	AES	P
19.209	10	16	89	Chr.19	BCT2	P
19.21	8	27	92	Chr.19	C5R1, C5AR	P
19.211	5	18	90	Chr.19	CAPN4	P
19.212	3	14	96	Chr.19	CLPP	P
19.213	9	22	93	Chr.19	COX7A1, COX7AM	P
19.214	3	29	89	Chr.19	ERBAL2, EAR2	P
19.215	6	11	92	Chr.19	FPR1	C
19.216	8	21	91	Chr.19	FPRL1, FPRH1	P
19.217	6	11	92	Chr.19	FPRL2, FPRH2	P
19.218	5	27	94	Chr.19	GPX4	P
19.219	10	23	87	Chr.19	GUSM	P
19.22	5	24	90	Chr.19	HKR1	P
19.221	5	24	90	Chr.19	HKR2	P
19.222	3	15	92	Chr.19	KCNA7	P
19.223	6	27	95	Chr.19	LGALS7	P
19.224	9	12	95	Chr.19	MIF	P
19.225	11	4	93	Chr.19	MYBPC2, MYBPCF	P
19.226	2	24	97	Chr.19	NEUD4	P
19.227	10	21	92	Chr.19	NTF5	P
19.228	5	17	95	Chr.19	PCSK4	P
19.229	10	15	94	Chr.19	PDE4C, DPDE1	P
19.23	10	23	87	Chr.19	PGK2	C
19.231	4	25	95	Chr.19	POU2F2, OTF2, OCT2	P
19.232	6	29	94	Chr.19	PRKCSH, G19P1	P
19.233	12	17	87	Chr.19	RRAS	P
20.1	10	12	90	20pter-p12.21	PDYN	C
20.2	5	13	93	20pter-p12	CHGB, SCG1	C
20.3	3	23	92	20pter-p12	PRNP, PRIP	C
20.4	10	15	94	20p13	ADRA1D	C
20.5	4	25	93	20p13	AVP, AVRP, VP	C
20.6	11	4	93	20p13	CDC25B	C
20.7	1	12	95	20p13	CENPB	C
20.8	10	23	92	20p13	CSNK2A1, CK2A1	C
20.9	4	25	93	20p13	FKBP1, FKBP12	C
20.1	4	25	93	20p13	OXT	C
20.11	8	17	92	20p13	PTPRA, PTPA, PTPRL2, LRP	C

20.12	10	17	95	20p13	SN	P
20.13	2	18	96	20p13	TCF15	P
20.14	11	5	92	20p12	BMP2, BMP2A	C
20.15	8	21	91	20p12	PCNA	C
20.16	12	7	95	20p12	PLCB4	P
20.17	9	23	96	20p12-p11.2	ES130	P
20.18	5	18	92	20p11.2	AGS, AHD	C
20.19	3	31	97	20p11.21	CST5	P
20.2	5	27	93	20p11.2	PAX1	C
20.21	5	14	95	20p11.2	SSTR4	P
20.22	9	29	96	20p11.2	PCSK2, NEC2, PC2	C
20.23	9	29	96	20p11.2	SNAP	P
20.24	4	24	96	20p11.2-p11.1	PYGB	C
20.25	9	29	96	20p11.2	THBD, THRM	C
20.26	2	12	96	20p11.2-q11.2	CHED	P
20.27	2	12	96	20p11.2-q11.2	PPCD, PPD	P
20.28	8	11	91	20p11	CST3	C
20.29	1	12	95	20p	HNF3B	L
20.3	5	15	89	20p	ITPA	C
20.31	4	10	97	20cen-q13	MAP1ALC3, MAP1BLC3	P
20.32	9	8	90	20cen-q13.1	AHCY, SAHH	C
20.33	1	15	96	20q11	ID1	P
20.34	10	23	87	20q11-q12	HCK	P
20.35	1	12	95	20q11.2	AGTIL	P
20.36	3	16	95	20q11.2	GHRF	C
20.37	2	18	96	20q11.2	GSS, GSHS	P
20.38	5	27	94	20q11.2	RBL1, CP107	P
20.39	9	9	96	20q11.2	SNT1	C
20.4	9	29	96	20q11.2-q12	MLRG, MTS	P
20.41	1	12	95	20q11.2-q12	TGM2	C
20.42	5	17	95	20q11.2-q13.1	MMP9, CLG4B	C
20.43	4	25	93	20q11.23-q12	BPI	P
20.44	4	25	93	20q11.23-q12	LBP	P
20.45	5	14	95	20q12	TGM3	P
20.46	5	27	94	20q12-q13	PI3	P
20.47	12	19	96	20q12-q13	SDC4	P
20.48	12	24	89	20q12-q13	SRC, ASV, SRC1	C
20.49	7	12	94	20q12-q13.1	PLCG1, PLC1	C
20.5	2	18	96	20q12-q13.1	PLTP	C
20.51	12	10	91	20q12-q13.1	RPN2	C
20.52	7	13	93	20q12-q13.1	SEMG1, SEMG	C
20.53	7	13	93	20q12-q13.1	SEMG2	P
20.54	2	24	97	20q12-q13.1	TCF14, HNF4A, MODY1	C
20.55	6	11	92	20q12-q13.1	TOP1	C

20.56	10	15	94	20q12-q13.2	CD40	C
20.57	9	2	96	20q13	CAS	P
20.58	3	28	90	20q13	ZNF8	P
20.59	9	12	92	20q13.1	CEBPB, TCF5	C
20.6	2	3	97	20q13.1	EYA2	P
20.61	9	23	96	20q13.1	MYBL2, BMYB	P
20.62	11	18	96	20q13.1	PPGB, GSL, NGBE, GLB2, CTSA	C
20.63	9	28	96	20q13.1	YWHAB	P
20.64	1	6	93	20q13.1-q13.2	PTPN1, PTP1B	P
20.65	4	25	93	20q13.11	ADA	C
20.66	7	13	95	20q13.2	GNAS1, GNAS, GPSA	C
20.67	3	27	95	20q13.2	KCNB1	P
20.68	10	15	94	20q13.2	MC3R	C
20.69	1	26	97	20q13.2	TFAP2C	P
20.7	10	11	95	20q13.2-q13.3	CHRNA4, EBN1	C
20.71	10	15	94	20q13.2-q13.3	CYP24	P
20.72	4	23	96	20q13.2-q13.3	EDN3	C
20.73	3	15	92	20q13.2-q13.3	EEGV1, EEGL	P
20.74	2	14	97	20q13.2-q13.3	NFATC2, NFATP	P
20.75	2	18	96	20q13.3	COL9A3	P
20.76	8	11	91	20q13.3	CST1	C
20.77	8	11	91	20q13.3	CST2	C
20.78	9	14	95	20q13.3	GPR8	P
20.79	4	25	93	20q13.31	PCK1	C
20.8	6	14	94	Chr.20	ADRA1A	C
20.81	2	11	93	Chr.20	BMP7	P
20.82	10	23	87	Chr.20	DCE	P
20.83	11	22	94	Chr.20	EIF4EL2	P
20.84	10	23	87	Chr.20	HTL, LEUT, HLT	P
21.1	4	26	90	21p12	RNR4	C
21.2	3	5	96	21q11.1	STCH	P
21.3	3	26	96	21q11.2	TAM, MST	P
21.4	8	22	95	21q21	PRSS7, ENTK	P
21.5	10	17	95	21q21-q22.1	GABPA, E4TF1A	C
21.6	1	7	93	21q21.3-q22.05	APP, AAA, CVAP, AD1	C
21.7	3	1	94	21q22	GRIK1, GLUR5	C
21.8	3	27	95	21q22	SLC5A3	P
21.9	7	13	93	21q22.1	CRFB4	P
21.1	6	3	94	21q22.1	GART, PRGS, PGFT	C
21.11	11	17	94	21q22.1	HCS	P
21.12	8	11	91	21q22.1	IFNAR	C
21.13	10	22	95	21q22.1	KCNJ7, GIRK2	P
21.14	12	16	93	21q22.1	SOD1, ALS1	C
21.15	2	15	96	21q22.1	TIAM1	P

21.16	12	13	95	21q22.1-q22.2	ATP5O	P
21.17	9	15	96	21q22.1-q22.2	FPDMM	P
21.18	11	14	90	21q22.1-q22.2	IFNGT1, IFGR2	C
21.19	4	25	93	21q22.1-q22.2	KCNE1	C
21.2	10	22	95	21q22.1-q22.2	KCNJ6	P
21.21	2	24	97	21q22.1	MNBH, MNB, DYRK	C
21.22	8	29	96	21q22.1-q22.2	SON	P
21.23	4	25	93	21q22.12	CBR	C
21.24	9	12	96	21q22.2	CAF1A	P
21.25	4	9	96	21q22.2	SIM, SIM2	P
21.26	3	28	90	21q22.2-q22.3	S100B	C
21.27	1	12	95	21q22.3	APECED	P
21.28	10	15	96	21q22.3	TFF1, BCE1	C
21.29	1	20	95	21q22.3	CBFA2, AML1	C
21.3	4	25	93	21q22.3	CBS	C
21.31	10	22	96	21q22.3	COL6A1	C
21.32	10	22	96	21q22.3	COL6A2	C
21.33	3	20	94	21q22.3	COL18A1	P
21.34	3	18	91	21q22.3	CRYA1	C
21.35	2	19	96	21q22.3	DFNB8	P
21.36	9	16	96	21q22.3	DCR, DSCR	C
21.37	10	15	94	21q22.3	ERG	C
21.38	3	18	91	21q22.3	ETS2	C
21.39	2	20	97	21q22.3	GT335	P
21.4	7	9	90	21q22.3	HMG14	C
21.41	4	9	96	21q22.3	HPE1	P
21.42	1	23	96	21q22.3	ITGB2, CD18, LCAMB, LAD	C
21.43	1	26	97	21q22.3	KNO, KS	P
21.44	4	24	96	21q22.3	LSS	P
21.45	3	18	91	21q22.3	MX1, MX, IFI78	C
21.46	9	22	96	21q22.3	PCNT	P
21.47	3	18	91	21q22.3	PFKL	C
21.48	1	26	97	21q22.3	PWP2H	P
21.49	10	17	95	21q22.3	SLC19A1, FOLT	P
21.5	8	21	92	21q22.3	SML1	C
21.51	3	31	97	21q22.3	STFB, CSTB, EPM1	P
21.52	4	9	96	21q22.3	TFF3, ITF	C
21.53	9	28	96	21q22.3	U2AF1	P
21.54	10	23	87	Chr.21	AABT	L
21.55	10	23	87	Chr.21	BAS	L
21.56	11	14	91	Chr.21	HSPA3	P
21.57	10	23	87	Chr.21	HTOR	L
21.58	1	12	89	Chr.21	MX2	L
21.59	6	20	94	Chr.21	VDAC2	P

22.1	6	20	94	22pter-q11.2	ATP6E	P
22.2	3	6	92	22pter-q13	XBP2	P
22.3	4	26	90	22p12	RNR5	C
22.4	8	20	92	22p	ZNF72	P
22.5	8	20	92	22p	ZNF73	P
22.6	12	20	96	22q	CCA2	P
22.7	11	27	94	22q11	ADRBK2, BARK2	P
22.8	10	23	87	22q11	CECR, CES	C
22.9	1	27	97	22q11	CLTD	P
22.1	1	7	93	22q11	CTHM	L
22.11	3	20	94	22q11	DGCR, DGS, VCF	C
22.12	1	17	97	22q11	DGCR2, IDD	P
22.13	8	15	96	22q11	DVL, DVL1	P
22.14	8	11	91	22q11	HCF2, HC2	C
22.15	1	17	95	22q11	NAGA	C
22.16	1	8	97	22q11	RDT	P
22.17	10	17	95	22q11	SCZD3	P
22.18	9	15	96	22q11	SLC20A3, CTP	C
22.19	1	12	95	22q11	TUPLE1, HIRA	P
22.2	2	9	92	22q11-q12	LRE1, L1.2	C
22.21	9	9	90	22q11-q13	G22P1	C
22.22	2	12	97	22q11-q13	SCZD4	P
22.23	5	24	90	22q11.1-q11.2	GGT1, GTG	C
22.24	7	13	95	22q11.1-q11.2	LZTR1	P
22.25	6	29	94	22q11.12	GGT2	P
22.26	10	23	87	22q11.12	IGL@	C
22.27	10	23	87	22q11.12	IGLV	C
22.28	10	23	87	22q11.12	IGLJ	C
22.29	10	23	87	22q11.12	IGLC1, IGLC	C
22.3	9	28	93	22q11.2	COMT	C
22.31	4	21	97	22q11.2	DGSI	P
22.32	9	13	92	22q11.2	GNAZ	C
22.33	7	13	95	22q11.2	GP1BB	C
22.34	3	27	95	22q11.2	GSTT2	P
22.35	7	13	94	22q11.2	MMP11, STMY3	P
22.36	4	25	93	22q11.2	MYH9	C
22.37	3	5	96	22q11.2	OGS2, BBBG2, GBBB2	C
22.38	4	11	97	22q11.2	PRKM1, ERK2, MAPK1	P
22.39	4	21	97	22q11.2	UFD1L	P
22.4	8	20	92	22q11.2	ZNF69	P
22.41	8	20	92	22q11.2	ZNF70	P
22.42	8	20	92	22q11.2	ZNF71	P
22.43	8	20	92	22q11.2	ZNF74	P
22.44	11	9	95	22q11.2-q12.1	CRYBB1	P

22.45	4	10	90	22q11.2-q12.2	CRYB2	C
22.46	4	10	90	22q11.2-q12.2	CRYB3	C
22.47	2	9	92	22q11.2-q13	IL2RB	C
22.48	10	23	87	22q11.2-q13	MB	C
22.49	1	24	93	22q11.2-q13.1	CRYBA4	P
22.5	10	23	87	22q11.2-qter	P1	P
22.51	10	23	87	22q11.2-qter	TCN2, TC2	C
22.52	3	22	93	22q11.21	BCR, CML, PHL	C
22.53	3	15	92	22q11.21	BCRL2	P
22.54	3	15	92	22q11.21	BCRL3	P
22.55	3	15	92	22q11.21	BCRL4	P
22.56	3	18	91	22q11.21	VPREB1, IGI	C
22.57	4	30	91	22q11.21	VPREB2	P
22.58	10	23	87	22q11.21-q13.31	ACO2	C
22.59	11	13	94	22q12	ADTB1, BAM22	P
22.6	1	24	93	22q12	EWSCR, EWS	C
22.61	5	31	94	22q12	HMOX1	C
22.62	9	28	96	22q12	YWHAH, YWHA1	C
22.63	10	22	95	22q12-q13	CSNK1E	P
22.64	4	25	93	22q12-q13.1	LGALS1	C
22.65	3	18	91	22q12-q13.1	PVALB	C
22.66	9	28	93	22q12.1-q12.2	LIF, HILDA	C
22.67	9	28	93	22q12.1-q12.2	OSM	C
22.68	1	12	95	22q12.1-q13.2	TIMP3, SFD	C
22.69	9	28	93	22q12.2	NEFH	C
22.7	4	11	94	22q12.2	NF2	C
22.71	1	24	93	22q12.2-q13.1	CSF2RB	P
22.72	2	20	97	22q12.3-q13.1	PDGFB, SIS	C
22.73	8	11	91	22q13	ECGF1	P
22.74	3	20	94	22q13	GAD3	L
22.75	1	10	96	22q13	SREBF2	P
22.76	11	17	94	22q13	TEF	P
22.77	6	5	90	22q13-qter	ACR	P
22.78	1	17	95	22q13.1	ADSL	C
22.79	4	25	93	22q13.1	CYP2D@, CYP2D, P450C2D	C
22.8	11	22	93	22q13.1	H1FV, H1F0	P
22.81	5	18	95	22q13.1	KCNJ4, HIR	P
22.82	11	8	96	22q13.1	NCF4, P40PHOX	P
22.83	12	9	95	22q13.1	SLC5A1, SGLT1	C
22.84	4	25	93	22q13.1	SSTR3	C
22.85	6	29	94	22q13.1-qter	SFD	P
22.86	5	18	95	22q13.3	FBLN1	C
22.87	9	28	93	22q13.31	BZRP	C
22.88	10	23	87	22q13.31-qter	ARSA	C

22.89	7	13	95	22q13.31-qter	DIA1	C
22.9	10	16	94	Chr.22	ADORA2A	P
22.91	6	16	89	Chr.22	MSK41	P
23.1	7	9	90	Xpter-p22.32	ARSC2	L
23.2	4	25	93	Xpter-p22.32	ASMT, HIOMT	P
23.3	1	13	93	Xpter-p22.32	GCFX, SS	P
23.4	10	23	87	Xpter-p22.32	MIC2, MIC2X, CD99	C
23.5	10	23	87	Xpter-p22.32	XG	C
23.6	3	5	96	Xpter-p22.2	CFND	P
23.7	4	25	93	Xp22.32	ANT3	C
23.8	10	21	92	Xp22.32	CSF2RA	C
23.9	8	27	92	Xp22.32	DXF68S1E, GS1	P
23.1	4	25	93	Xp22.32	DXYS155E, XE7	P
23.11	7	5	92	Xp22.32	STS, ARSC1, SSDD	C
23.12	10	12	90	Xp22.32	XGR	P
23.13	10	19	88	Xp22.31	DHOF, FODH	P
23.14	9	1	95	Xp22.31	MLS, MIDAS	P
23.15	6	13	95	Xp22.3	APXL	P
23.16	5	18	95	Xp22.3	ARSE, CDPX1, CDPXR	C
23.17	2	14	97	Xp22.3	ARSD	P
23.18	2	14	97	Xp22.3	ARSF	P
23.19	1	12	95	Xp22.3	CLCN4	P
23.2	10	23	87	Xp22.3	HYR	P
23.21	10	4	93	Xp22.3	IL3RA	C
23.22	1	25	95	Xp22.3	KAL1, KMS, ADMLX	C
23.23	12	24	89	Xp22.3	OA1	C
23.24	12	16	93	Xp22.3	OASD	P
23.25	12	4	90	Xp22.3-p22.2	PRPS2	C
23.26	3	8	92	Xp22.3-p22.1	AMELX, AMG, AIH1, AMGX	C
23.27	9	28	93	Xp22.3-p21.2	GRPR	C
23.28	1	3	91	Xp22.3-p21.1	NHS	C
23.29	1	25	91	Xp22.3-p21.1	POLA	C
23.3	12	4	90	Xp22.3-p22.1	RS	C
23.31	7	27	95	Xp22.2	BMX	P
23.32	1	10	92	Xp22.2	CMTX2	P
23.33	1	12	95	Xp22.2	FCPX, FCP	P
23.34	9	28	96	Xp22.2	GPM6B, M6B	P
23.35	3	27	95	Xp22.2	HOMG, HSH, HMGX	P
23.36	5	27	93	Xp22.2-p21.3	ZFX	C
23.37	12	4	95	Xp22.2-p22.13	KFSD	C
23.38	2	4	89	Xp22.2-p22.1	CLS	C
23.39	10	23	87	Xp22.2-p22.1	CND	L
23.4	12	10	95	Xp22.2-p22.1	HYP, HPDR1	C
23.41	3	18	91	Xp22.2-p22.1	PDHA1, PHE1A	C

23.42	3	31	97	Xp22.2-p22.1	PHKA2, PHK	C
23.43	1	10	93	Xp22.2-p22.1	PRTS, MRXS1	P
23.44	11	4	93	Xp22.2-p22.1	SEDL, SEDT	C
23.45	2	26	96	Xp22.13-p22.11	RP15	P
23.46	10	16	94	Xp22.11-p21.2	GDXY, TDFX, SRVX	P
23.47	1	8	96	Xp22.1	PIGA	P
23.48	9	28	93	Xp22.1	SAT	P
23.49	4	10	97	Xp22.1	U2AF1RS2	P
23.5	10	12	90	Xp22.1-p21.2	GLRA2	P
23.51	3	17	94	Xp22.1-p11	ZNF81	P
23.52	1	25	91	Xp22.1-cen	ZNF41	P
23.53	12	18	89	Xp22	AGMX2, XLA2, IMD6	P
23.54	10	8	88	Xp22	AIC	C
23.55	12	3	96	Xp22	DFN6	P
23.56	12	17	87	Xp22	GY, HYP2	L
23.57	9	16	96	Xp22	HCCS	P
23.58	1	25	91	Xp22	MRX1	C
23.59	3	5	96	Xp22	OGS1, BBBG1, GBBB1	P
23.6	11	13	94	Xp22-p21	PDR	P
23.61	11	5	95	Xp21.3	DAM6	P
23.62	11	5	95	Xp21.3	DAM10	P
23.63	2	5	96	Xp21.3	DSS	P
23.64	7	13	95	Xp21.3	MAGEL1	P
23.65	10	17	96	Xp21.3-p21.2	AHC, DAX1, AHX	C
23.66	10	23	87	Xp21.3-p21.2	GK	C
23.67	1	25	93	Xp21.3-p21.2	RP6	L
23.68	2	26	96	Xp21.2	DFN4	P
23.69	5	27	93	Xp21.2	DMD, BMD	C
23.7	6	29	94	Xp21.2-p21.1	XK	C
23.71	1	27	97	Xp21.2-p11.2	UHX1	P
23.72	10	23	87	Xp21.2-q21.1	LUS, XS	L
23.73	11	25	96	Xp21.1	CSNB2	P
23.74	3	30	89	Xp21.1	CYBB, CGD	C
23.75	9	15	89	Xp21.1	OTC	C
23.76	1	10	93	Xp21.1	RP3	C
23.77	1	10	93	Xp21.1-q22	WTS, MRXS6	P
23.78	11	28	88	Xp21	GTD	L
23.79	1	7	93	Xp21	SRS, MRSR	P
23.8	10	3	95	Xp21-q13	MRX9	P
23.81	1	9	94	Xp11.4	NDP, ND	C
23.82	3	20	94	Xp11.4-p11.23	AIED, OA2	C
23.83	12	10	91	Xp11.4-p11.23	PFC, PFD	C
23.84	3	21	94	Xp11.4-p11.2	ARAF1, RAFA1, PKS2	C
23.85	9	13	92	Xp11.4-p11.2	SYN1	C

23.86	1	12	95	Xp11.3	COD1, PCDX	C
23.87	9	12	92	Xp11.3	CSNB1	I
23.88	4	25	90	Xp11.3	RP2	C
23.89	6	7	91	Xp11.3-p11.23	OATL1	C
23.9	1	1	96	Xp11.3-p11.23	PCTK1	C
23.91	8	21	91	Xp11.3-p11.23	TIMP, EPA	C
23.92	9	22	96	Xp11.3-q13.3	MRX14	P
23.93	1	12	95	Xp11.23	GATA1, GF1, ERYF1, NFE1	C
23.94	12	16	93	Xp11.23	MAOA	C
23.95	4	10	90	Xp11.23	MAOB	C
23.96	2	19	96	Xp11.23	RBM3	P
23.97	8	21	91	Xp11.23	UBE1, GXP1, A1ST	C
23.98	10	12	90	Xp11.23-p11.22	SYP	P
23.99	10	16	94	Xp11.23-p11.22	UGTL	P
23.1	5	18	95	Xp11.23-p11.22	WAS, IMD2, THC	C
23.101	2	1	96	Xp11.22	CLCN5, CLCK2, NPHL2, DENTS	P
23.102	7	13	93	Xp11.22	NPHL1, XRN	P
23.103	10	4	91	Xp11.22	TFE3	P
23.104	5	18	95	Xp11.22-p11.21	DXS1272E, XE169, SMCX	C
23.105	4	10	96	Xp11.22-p11.21	DXS423E, SMC1	P
23.106	6	7	91	Xp11.22-p11.21	OATL2	C
23.107	2	9	92	Xp11.21	ALAS2, ASB, ANH1	C
23.108	1	12	95	Xp11.21	FGDY, AAS	C
23.109	1	25	91	Xp11.21	IP1, IP	C
23.11	9	12	92	Xp11.2	ELK1	C
23.111	1	9	94	Xp11.2	RCCP2	C
23.112	2	28	96	Xp11.2	SSX1, SSRC	C
23.113	2	15	96	Xp11.2	ZNF157	C
23.114	10	21	92	Xp11	MRXA	L
23.115	3	19	91	Xp11-q11	ACTL1	P
23.116	4	16	96	Xp11-q21	MRX20	P
23.117	1	10	93	Xp11-q21	PRS, MRXS2	P
23.118	1	10	93	Xp11-q21.3	SHS, MRXS3	P
23.119	12	1	94	Xp	CALB3, CABP9K	P
23.12	4	28	90	Xp	CCT	L
23.121	4	25	90	Xp	RTT, RTS	L
23.122	3	14	96	Xp	SMAX2	P
23.123	4	30	91	Xcen-q13	PFKFB1, PFRX	P
23.124	6	22	94	Xcen-q21	ARR3	P
23.125	3	28	90	Xq	DXS435E, A11	P
23.126	10	2	95	Xq11	MXS1, A15	P
23.127	3	27	95	Xq11-q12	AR, DHTR, TFM, SBMA, KD	C
23.128	5	27	93	Xq11-q12	MRX2	L
23.129	3	20	94	Xq11.2-q12	MSN	P

23.13	9	15	96	Xq12	AUF1B	P
23.131	2	26	96	Xq12	EPLG2	P
23.132	3	8	96	Xq12-q13	ATP7A, MNK, MK, OHS	C
23.133	4	28	90	Xq12.2-q13.1	EDA, HED	C
23.134	1	7	93	Xq13	ASAT	L
23.135	5	18	95	Xq13	IL2RG, SCIDX1, SCIDX, IMD4	C
23.136	2	26	96	Xq13	MLLT7, AFX1	P
23.137	3	5	96	Xq13	NRU, P2Y4	P
23.138	9	12	92	Xq13	PGK1, PGKA	C
23.139	9	28	93	Xq13	PHKA1	C
23.14	4	23	96	Xq13	RAD54, XH2, ATRX, ATR2	C
23.141	10	23	87	Xq13-q21	CHR39C	P
23.142	6	22	94	Xq13-q21	VDAC1	P
23.143	3	4	88	Xq13-q21	WWS	P
23.144	10	2	91	Xq13-q22	MCS, MRXS4	P
23.145	1	25	91	Xq13-q27	CCG1, BA2R	C
23.146	10	17	95	Xq13.1	DYT3	C
23.147	10	27	93	Xq13.1	GJB1, CX32, CMTX1	C
23.148	9	28	93	Xq13.1	RPS4X, CCG2, SCAR	C
23.149	9	14	95	Xq13.2	CDX4	P
23.15	1	18	95	Xq13.2	SLC16A2, DXS128, XPCT	P
23.151	10	16	94	Xq13.2	XIC, XCE, XIST	C
23.152	7	10	91	Xq21	AHDS	P
23.153	3	31	97	Xq21	POF1, POF	P
23.154	12	29	89	Xq21-q22	FPSL5	P
23.155	2	23	92	Xq21-q22	TDGF2	P
23.156	3	14	96	Xq21.1	POU3F4, DFN3	P
23.157	12	3	91	Xq21.1-q21.3	ZNF6, CMPX1	P
23.158	4	9	96	Xq21.3	CPX	C
23.159	11	7	89	Xq21.2	CHM, TCD	C
23.16	6	13	95	Xq21.3	PRKCI	P
23.161	10	16	94	Xq21.3-q22	BTK, AGMX1, IMD1, XLA, AT	C
23.162	12	29	89	Xq21.3-q22	MGC1, MGCN	P
23.163	7	18	91	Xq21.3-q22	PHP, GHDX	L
23.164	3	18	91	Xq22	COL4A5, ATS, ASLN	C
23.165	9	28	93	Xq22	COL4A6	C
23.166	10	8	96	Xq22	DFN1, DDP, MTS	C
23.167	7	8	96	Xq22	DRP2	P
23.168	9	6	90	Xq22	GLA	C
23.169	9	15	96	Xq22	GUC2F, GUCY2F	P
23.17	10	16	94	Xq22	PLP, PMD	C
23.171	2	26	96	Xq22-q23	AGTR2	C
23.172	12	4	90	Xq22-q24	PRPS1	C
23.173	11	6	92	Xq22-q28	AIH3	L

23.174	7	8	89	Xq22-q28	MYCL2	P
23.175	10	15	95	Xq22.2	TBG	C
23.176	4	23	96	Xq23-q24	MRX23	P
23.177	5	18	95	Xq24	HTR2C	C
23.178	3	18	91	Xq24	LAMP2	C
23.179	2	23	92	Xq24-q25	RAD6A	P
23.18	6	9	95	Xq24-q26	ANT2	C
23.181	11	5	95	Xq24-q26.1	CMT2D, NADMR	P
23.182	10	17	95	Xq24-q27	BZX	P
23.183	7	13	95	Xq24-q27.1	HCG, CGH	P
23.184	4	9	96	Xq25	HDGF	P
23.185	12	4	90	Xq25	LYP, IMD5, XLP, XLPD	C
23.186	3	1	94	Xq25-q26	GRIA3, GLUR3	P
23.187	5	14	95	Xq25-q26	HTX1	P
23.188	10	4	93	Xq25-q26.1	TAS	P
23.189	8	25	92	Xq25-q27	PGS, MRXS5	P
23.19	1	9	94	Xq26	CD40LG, HIGM1, IGM	C
23.191	2	28	97	Xq26	GPC3	P
23.192	7	14	93	Xq26	GUST	P
23.193	12	16	93	Xq26	SDYS, SGB	C
23.194	10	16	94	Xq26	SHFM2, SHFD2	P
23.195	8	21	92	Xq26	ZNF75	P
23.196	4	25	90	Xq26-q27	BFLS	P
23.197	6	8	89	Xq26-q27	HPT, HPTX, HYPX	P
23.198	3	17	94	Xq26-q27	SOX3	P
23.199	10	23	87	Xq26-q27.2	HPRT	C
23.2	9	12	95	Xp11.3-q11.2	AMCX1	P
23.201	12	24	89	Xq26-q28	GLUDP1	C
23.202	5	18	95	Xq26-qter	INDX	P
23.203	1	7	93	Xq26.1	OCRL, LOCR, OCRL1	C
23.204	2	5	96	Xq26.1	SNF2L1	P
23.205	7	9	90	Xq26.3-q27.1	ADFN, ALDS	P
23.206	1	25	91	Xq27	MCF2, DBL	C
23.207	6	12	92	Xq27-q28	ANOP1	L
23.208	8	21	91	Xq27.1-q27.2	CDR, CDR62A	C
23.209	4	25	90	Xq27.1-q27.2	F9, HEMB	C
23.21	1	11	94	Xq27.3	FMR1, FRAXA	C
23.211	8	3	95	Xq27.3-qter	EBM	P
23.212	4	24	96	Xq28	ALD	C
23.213	4	9	97	Xq28	DXS707, ARD1	P
23.214	2	5	96	Xq28	ATP2B3, PMCA3	P
23.215	3	18	91	Xq28	AVPR2, DIR, DI1, ADHR	C
23.216	4	25	93	Xq28	BGN	C
23.217	5	18	95	Xq28	CALT	P

23.218	10	23	87	Xq28	CBBM, BCM	C
23.219	11	14	96	Xq28	CMD3A, CDFI	P
23.22	12	18	89	Xq28	CDPX2, CPXD, CPX	L
23.221	9	28	93	Xq28	DKC	C
23.222	10	2	95	Xq28	DNL1L	P
23.223	3	22	93	Xq28	DXS522E, F8B	P
23.224	1	24	93	Xq28	DXS648, QM	C
23.225	9	28	93	Xq28	EFE2, BTHS	C
23.226	4	30	91	Xq28	EMD, EDMD	C
23.227	9	13	92	Xq28	F8A	C
23.228	5	27	93	Xq28	F8C, HEMA	C
23.229	8	10	93	Xq28	FLN1, ABPX	C
23.23	10	27	93	Xq28	FRAXE, FMR2	P
23.231	2	26	96	Xq28	FRAXF	P
23.232	4	28	90	Xq28	G6PD, G6PD1	C
23.233	12	29	89	Xq28	GABRA3	C
23.234	5	14	95	Xq28	HMS1, GAY1	L
23.235	8	21	91	Xq28	GCP, CBD	C
23.236	12	4	90	Xq28	GDX	P
23.237	2	5	96	Xq28	HFC1, HCFC1	C
23.238	6	12	92	Xq28	IDS, MPS2, SIDS	C
23.239	11	6	95	Xq28	IL9R	P
23.24	4	11	94	Xq28	IP2	C
23.241	4	10	97	Xq28	IPOX, CIIPX	P
23.242	7	8	96	Xq28	ITBA1	P
23.243	7	8	96	Xq28	ITBA2	P
23.244	10	16	94	Xq28	L1CAM, CAML1, HSAS1	C
23.245	10	23	87	Xq28	MAFD2, MDX	L
23.246	2	5	96	Xq28	MAGE1	C
23.247	9	12	96	Xq28	MECP2	P
23.248	10	21	92	Xq28	MPP1, PEMP, EMP55	P
23.249	10	23	87	Xq28	MRSD, CHRS	P
23.25	1	25	93	Xq28	MRX3	P
23.251	5	14	95	Xq28	MTCP1	P
23.252	7	8	96	Xq28	MTM1, MTMX	C
23.253	10	4	91	Xq28	MYP1, BED	P
23.254	1	27	97	Xq28	NHBP	P
23.255	2	9	92	Xq28	OPD1	P
23.256	12	4	90	Xq28	P3	P
23.257	1	27	97	Xq28	PPMX	P
23.258	7	9	90	Xq28	RCP, CBP	C
23.259	6	14	94	Xq28	RENBP	P
23.26	2	15	96	Xq28	RGC1	P
23.261	2	15	96	Xq28	SEX	P

23.262	2	26	96	Xq28	SLC6A8	C
23.263	7	2	96	Xq28	SYBL1	P
23.264	10	23	87	Xq28	TKC, TKCR	C
23.265	4	1	96	Xq28	TKT2, TKR	P
23.266	10	4	91	Xq28	WSN, BGMR	P
23.267	10	23	87	Xq28	XM	P
23.268	10	21	96	Xq22	FSHPRH1, LRPR1	P
23.269	2	24	97	Xq26	FGF13, FGF2	P
24.1	10	4	93	Ypter-p11.2	ASMTY	P
24.2	10	4	93	Ypter-p11.2	MIC2Y	C
24.3	10	13	93	Ypter-p11.2	TSPY	P
24.4	10	4	93	Ypter-p11.2	XE7Y	P
24.5	10	4	93	Yp13.3	IL3RAY	P
24.6	1	13	95	Yp11.3	RPS4Y	P
24.7	11	6	92	Yp11.3	TDF, SRY	C
24.8	1	13	95	Yp11.3	ZFY	C
24.9	10	4	93	Yp11	AMELY, AMGL	C
24.1	10	4	93	Yp11	CSF2RY	P
24.11	10	4	93	Yp	ANT3Y	P
24.12	1	16	97	Yq	AZF2	P
24.13	10	16	94	Yq	SMCY	P
24.14	10	17	95	Yq11	AZF1, SP3	C
24.15	5	14	96	Yq11	DAZ	P
24.16	5	27	93	Yq11	HY, HYA	C
24.17	2	19	97	Yq11	RBM1	C
24.18	2	19	97	Yq11	RBM2	P
24.19	1	30	96	Yq11.21	XGPY	P
24.2	3	26	96	Yq12	STA, GCY, TSY	L

Adenovirus-12 chromosome modification site-1p		102920
Cataract, congenital, Volkmann type		115665
Enolase-1, alpha		172430
Glucose dehydrogenase		138090
Endogenous retroviral pol gene-like sequence 1 (oncogene HLM2)		131190
3-hydroxy-3-methylglutaryl-Coenzyme A lyase		246450
Agrin		103320
Guanine nucleotide-binding protein, beta polypeptide-1		139380
Malignant transformation suppression-1		154280
Sterol carrier protein-2		184755
Gap junction protein, alpha-5, 40kD (connexin 40)		121013
Carbonic anhydrase VI		114780
GLI-Kruppel family member HKR3		165270
Methylenetetrahydrofolate reductase		236250
RNA, U1 small nuclear		180680
5-hydroxytryptamine (serotonin) receptor-1D		182133
Neuroblastoma (neuroblastoma suppressor)		256700
Procollagen-lysine, 2-oxoglutarate 5-dioxygenase (lysine hydroxylase)		153454
Sodium channel, voltage-gated, type I, delta polypeptide		601328
Tumor necrosis factor receptor-2 (75kD)		191191
Complement component-1, q subcomponent, alpha polypeptide		120550
Complement component-1, q subcomponent, beta polypeptide		120570
Complement component-1, q subcomponent, gamma polypeptide		120575
Pronatriodilatin (atrial natriuretic peptide)		108780
Natriuretic peptide precursor B		600295
6-phosphogluconate dehydrogenase		172200
Paired box homeotic gene-7		167410
Oncogene FGR		164940
Glaucoma 3, primary infantile, B		600975
Cytidine deaminase		123920
Erythrokeratodermia variabilis		133200
Erythrocyte surface protein band 4.1		130500
Radin blood group		111620
RHESUS BLOOD GROUP CLUSTER		111700
Rhesus system C and E polypeptides		111700
Rhesus system D polypeptide		111680
Scianna blood group		111750
Inhibitor of DNA binding 3, dominant negative, helix-loop-helix	protein	600277
Differential-screening-selected gene aberrant in neuroblastoma		600613
Regulator of chromosome condensation		179710
Endothelin converting enzyme 1		600423
elk-related tyrosine kinase		176946
Multiple exostoses-like		601738
Nonhistone chromosomal protein HMG-17		163910

Heparan sulfate proteoglycan of basement membrane (perlecan)		142461
Protein kinase, cAMP-dependent, catalytic, beta		176892
Transcription elongation factor B (SIII), polypeptide 3 (110kD,	elongin A)	600786
tRNA asparagine		189880
eph tyrosine kinase 3		600997
Leukemia-associated phosphoprotein p18 (stathmin)		151442
Methylation modifier for class I HLA		601201
Microfibrillar-associated protein 2		156790
RAP1, GTPase activating protein 1		600278
Solute carrier family 9 (sodium/hydrogen exhanger), isoform 1	(antiporter	107310
Schwartz-Jampel syndrome		255800
G protein-coupled receptor 3		600241
Opioid receptor, delta-1		165195
Alkaline phosphatase, liver/bone/kidney		171760
Breast cancer, ductal		211420
Core-binding factor, runt domain, alpha subunit 3		600210
CD30 antigen (Ki-1 antigen)		153243
Cell division cycle 2-like 1		176873
Cutaneous malignant melanoma/dysplastic nevus		155600
Dishevelled 1 (homologous to Drosophila dsh)		601365
E2F transcription factor 2		600426
Eyes absent, drosophila, human homolog of, 3		601655
FK506 binding protein 12-rapamycin associated protein		601231
Leucine zipper protein		601422
Retinoblastoma protein-binding zinc-finger protein		601196
tRNA glutamic acid		180640
Tax-transcriptionally activated glycoprotein 1 receptor (homolog of	rat OX40/A	600315
Charcot-Marie-Tooth neuropathy-2A (hereditary motor sensory neuropathy	II)	118210
UDP galactose-4-epimerase		230350
5-hydroxytryptamine (serotonin) receptor 6		601109
Mom-1, human homolog of		157975
Schnyder crystalline corneal dystrophy		121800
Spermidine synthase-1		182891
Gap junction protein, alpha-4, 37kD (connexin 37)		121012
Epstein-Barr virus integration site		132850
Cartilage matrix protein		115437
Interferon, alpha-inducible protein (clone IFI-6-16)		147572
Phospholipase A2, group IIA (platelets, synovial fluid)		172411
Protein tyrosine phosphatase IVA1		601584
Replication protein A2 (32kD)		179836
Colony-stimulating factor-3 receptor (granulocyte)		138971
Lymphocyte-specific protein tyrosine kinase		153390
Platelet-activating factor receptor		173393
Guanylate cyclase activator 2 (guanylin 2, intestinal, heat-stable)		139392

Solute carrier family 2 (facilitated glucose transporter), member 1		138140
Collagen VIII, alpha-2 polypeptide		120252
Oncogene MYC, lung carcinoma-derived		164850
Cytidine 5'-triphosphate synthetase		123860
Histone deacetylase-1		601241
Proliferation-associated gene A		176763
Ribosomal protein S8		600357
Adenylate kinase-2, mitochondrial		103020
Collagen, type XVI, alpha-1 polypeptide		120326
Endothelin-2		131241
Fucosidase, alpha-L- 1, tissue		230000
HU-antigen D (a paraneoplastic encephalomyelitis antigen)		168360
Inositol polyphosphate-5-phosphatase, 75kD		147264
Lysosomal-associated multispanning membrane protein-5		601476
Myeloproliferative leukemia virus, human homolog of		159530
Uroporphyrinogen decarboxylase		176100
Major histocompatibility complex, class II, Y box-binding protein I		154030
Glutamate receptor, ionotropic, kainate 3		138243
Tyrosine kinase with immunoglobulin and epidermal growth factor	homology	600222
Cytochrome P450, subfamily IVB, member 1		124075
DNA damage-inducible transcript-1		126335
Metal-regulatory transcription factor 1		600172
Solute carrier family 6 (neurotransmitter transporter, glycine),	member 9	601019
Collagen, type IX, alpha 2		120260
Transforming growth factor, beta receptor III (betaglycan,	300kD)	600742
Fatty acid-binding protein 3, muscle		134651
Avian lymphoma virus-derived transforming sequence		164830
Complement component-8, alpha polypeptide		120950
Complement component-8, beta polypeptide		120960
Carnitine palmitoyltransferase II		600650
Deafness, autosomal dominant 2		600101
Epidermal growth factor receptor pathway substrate-15		600051
Forkhead (Drosophila)-like 12		601094
Palmitoyl-protein thioesterase		600722
Protein tyrosine phosphatase, receptor-type, f polypeptide		179590
Rearranged L-myc fusion sequence		180610
SCL interrupting locus		181590
T-cell acute lymphocytic leukemia-1		187040
Uridine monophosphate kinase		191710
Avian sarcoma virus 17 (v-jun) oncogene homolog		165160
Brain antigen RAB3B		179510
Vascular cell adhesion molecule-1		192225
Intracisternal A particle-promoted polypeptide		147485
Membrane component, chromosome 1, surface marker 1 (40kD glycoprotein,	identified	137290

Janus kinase 1 (a protein-tyrosine kinase)		147795
Nuclear factor I/A		600727
Prostaglandin E receptor 3 (subtype EP3)		176806
Prostaglandin F receptor (FP)		600563
Acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain		201450
AMP-activated protein kinase		600497
Dihydrolipoamide branched chain transacylase (E2 component of	branched c	248610
Immediate early response 1, B-cell specific (1R20)		600323
Leptin receptor		601007
Phosphodiesterase, 4B, cAMP-specific (dunce (Drosophila)-homolog	phosphodi	600127
Phosphoglucomutase-1		171900
Retinal pigment epithelium-specific protein (65kD)		180069
Solute carrier family 2 (facilitated glucose transporter), member 5		138230
Crystallin, zeta (quinone reductase)		123691
Rab geranylgeranyltransferase, beta subunit		179080
Down-regulator of transcription 1, TBP-binding (negative cofactor 2)		601482
Succinate dehydrogenase 1, iron sulphur (Ip) subunit		185470
Chitobiase, di-N-acetyl-		600873
Growth factor independent 1		600871
Guanine nucleotide binding protein (G protein), gamma 5		600874
NRAS-related gene		191510
Dihydropyrimidine dehydrogenase		274270
Urate oxidase		191540
Coagulation factor III		134390
Peroxisomal membrane protein-1 (70kD)		170995
Amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen	debranchin	232400
Amylase, salivary, alpha-1A		104700
Amylase, salivary, alpha-1B		104701
Amylase, salivary, alpha-1C		104702
Amylase, pancreatic, alpha-2A		104650
Amylase, pancreatic, alpha-2B		104660
Cholinergic receptor, nicotinic, beta polypeptide-2		118507
Collagen XI, alpha-1 polypeptide		120280
Glutamate-cysteine ligase (gamma-glutamylcysteine synthetase),	regulatory	601176
CD53 antigen		151525
Potassium voltage-gated channel, shaker-related subfamily, member 3		176263
ATP-binding transporter, retina-specific		601691
Adenosine A3 receptor		600445
Aplysia RAS-related homolog 9 (oncogene RHO H9)		165380
Adenosine monophosphate deaminase-1 (muscle)		102770
Adenosine monophosphate deaminase-2 (liver)		102771
Colony-stimulating factor-1 (macrophage)		120420
Retinitis pigmentosa-19		601718
Waardenburg syndrome, type 2B		600193

Glutathione S-transferase M1		138350
Glutathione S-transferase M2 (muscle)		138380
Glutathione S-transferase M3 (brain)		138390
Glutathione S-transferase M4		138333
Glutathione S-transferase M5		138385
RAS-related protein RAP1A		179520
Calsequestrin, fast-twitch, skeletal muscle-2		114251
Neuroblastoma RAS viral (v-ras) oncogene homolog		164790
Solute carrier family 16 (monocarboxylic acid transporters),	member 1	600682
CD2 antigen (p50), sheep red blood cell receptor		186990
Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid	delta-isome	109715
Hydroxy-delta-5-steroid dehydrogenase, 3 beta- and steroid	delta-isome	201810
Nerve growth factor, beta		162030
CD58 antigen (lymphocyte function-associated antigen 3)		153420
Guanine nucleotide-binding protein (G-protein), alpha-inhibiting	activity po	139370
Guanine nucleotide-binding protein (G-protein), alpha-transducing	(transducin	139340
Lectin, galactose-binding, soluble 3		137033
Thyroid-stimulating hormone, beta polypeptide		188540
3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2		600234
ATPase, Na+K+ transporting, alpha-1 polypeptide		182310
Notch (Drosophila) homolog 2		600275
Retinitis pigmentosa-18		601414
Fc fragment of IgG, high affinity Ib, receptor for (CD64)		601502
Nescient helix loop helix 2		162361
Cardiomyopathy, dilated1A (autosomal dominant)		115200
Epoxide hydroxylase 1, microsomal (xenobiotic)		132810
Gamma-aminobutyric acid (GABA) A receptor, delta		137163
Pheochromocytoma		171300
Adenylosuccinate synthetase (Ade(-)H-complementing)		103060
Choreoathetosis/spasticity, episodic (paroxysmal	choreoathe	601042
Flavin-containing monooxygenase 2 (adult liver)		136131
Heat shock 70kD protein-6 (HSP70B')		140555
Heat shock 70kD protein-7 (HSP70B)		140556
Paired mesodermal homeobox		167420
Synaptotagmin-2		600104
Gap junction membrane channel protein alpha-8 (connexin 50)		600897
S100 calcium-binding protein A8 (calgranulin A)		123885
S100 calcium-binding protein A9 (calgranulin B)		123886
tRNA asparagine-like		189890
Dermatopontin		125597
MADS box transcription enhancer factor 2, polypeptide D (myocyte	enhancer f	600663
Interferon, gamma-inducible protein 16		147568
Tyrosine kinase receptor related to neurotrophic TRK		191311
Troponin-I, skeletal, slow		191042

Cataract, zonular pulverulent-1 (FY-linked)		116200
Adenovirus-12 chromosome modification site-1q2		102940
Aryl hydrocarbon receptor nuclear translocator		126110
Calsequestrin, fast-twitch, skeletal muscle-1		114250
Cathepsin K		601105
Cathepsin S		116845
Fc fragment of IgG, high affinity Ic, receptor for (CD64)		601503
Filaggrin		135940
Glucosidase, beta; acid		230800
H1 histone, family 2		142710
H3 histone, family 2		142780
H4 histone, family 2		142750
Interleukin-6 receptor		147880
Involucrin		147360
Loricrin		152445
Myeloid cell leukemia sequence 1 (BCL2-related)		159552
Mitochondrial capsule selenoprotein		601148
Metaxin		600605
Mucin 1, transmembrane		158340
Pyruvate kinase, liver and RBC type		266200
Retinoic acid-binding protein-6		180231
Papillary renal cell carcinoma (translocation-associated)		179755
S100 protein, alpha polypeptide		176940
S100 calcium-binding protein A2		176993
S100 calcium-binding protein A3		176992
S100 calcium-binding protein A4 (calcium protein, calvasculin,	metastasin	114210
S100 calcium-binding protein A5		176991
S100 calcium-binding protein A6 (calcyclin)		114110
S100 calcium-binding protein A7		600353
S100 calcium-binding protein A10 (annexin II ligand, calpactin I,	light polyp	114085
SHC (Src homology 2 domain-containing) transforming protein-1		600560
Spectrin, alpha, erythrocytic-1		182860
Thrombospondin 3		188062
Transformation suppressor YL1		600607
eph-related receptor tyrosine kinase ligand 1 (tumor necrosis factor,	alpha-indu	191164
eph-related receptor tyrosine kinase ligand 3		601381
eph-related receptor tyrosine kinase ligand 4		601380
Duffy blood group		110700
Natriuretic peptide receptor A/guanylate cyclase A		108960
Neurotrophic tyrosine kinase, receptor type 1		191315
Small proline-rich protein 1A		182265
Small proline-rich protein 1B		182266
Small proline-rich protein 2A		182267
Small proline-rich protein 2B		182268

Small proline-rich protein 2C		182269
Small proline-rich protein 3		182271
Uridyl diphosphate glucose pyrophosphorylase-1		191750
Amyloid P component, serum		104770
Apolipoprotein A-II		107670
ATPase, Na+K+ transporting, alpha-2 polypeptide		182340
Thymocyte antigen CD1A		188370
Thymocyte antigen CD1B		188360
Thymocyte antigen CD1C		188340
Thymocyte antigen CD1D		188410
Thymocyte antigen CD1E		188411
C-reactive protein		123260
Deafness, autosomal dominant 7		601412
Fc fragment of IgG, low affinity II, receptor for (CD32)		146790
G-protein-coupled inward rectifier potassium channel		600932
Ets variant gene 3		164873
Signal sequence receptor, beta		600867
Lymphotactin		600250
Hyperparathyroidism 2 (with jaw tumor)		145001
Trabecular meshwork-induced glucocorticoid response protein		601652
Tuftelin 1		600087
Adenosine deaminase, RNA-specific		601059
Fc fragment of IgG, high affinity Ia, receptor for (CD64)		146760
Lamin A/C		150330
Heat shock 90kD protein, alpha-like 1		140571
Trichohyalin		190370
CD48 antigen (B-cell membrane protein)		109530
T-lymphocyte surface antigen Ly-9		600684
Interferon, gamma-inducible protein 16		147586
Myeloid cell nuclear differentiation antigen		159553
Myelin protein zero		159440
Nescient helix loop helix 1		162360
Protoporphyrinogen oxidase		600923
CD3Z antigen, zeta polypeptide (TiT3 complex)		186780
LIM homeobox transcription factor 1		600298
Octamer-binding transcription factor-1		164175
Retinoid X receptor, gamma		180247
Tropomyosin 3 (nonmuscle)		191030
Upstream stimulatory factor-1		191523
Avian sarcoma viral (v-ski) oncogene homolog		164780
ATPase, Na+K+ transporting, beta-1 polypeptide		182330
Minisatellite 33.6		157560
Coagulation factor V (proaccelerin, labile factor)		227400
Fc IgE receptor, alpha polypeptide		147140

Fc fragment of IgE, high affinity I, receptor for, gamma polypeptide		147139
Fc fragment of IgG, low affinity III, receptor for (CD16)		146740
Glutamate-ammonia ligase (glutamine synthase)		138290
Pre-B cell leukemia transcription factor-1		176310
TCP1 (t-complex-1) ring complex, polypeptide 5		600114
Oncogene TRK		164970
Antithrombin III		107300
Flavin-containing monooxygenase 1 (fetal liver)		136130
Selectin E (endothelial leukocyte adhesion molecule-1)		131210
Prostate cancer, hereditary, 1		601518
Selectin L (lymphocyte adhesion molecule 1)		153240
Selectin P (granulocyte membrane protein, 140kD; antigen CD62)		173610
Abelson murine leukemia viral (v-abl) oncogene homolog 2 (arg,	Abelson-re	164690
Farnesyl diphosphate synthase-like 1 (farnesyl pyrophosphate	synthetase	134631
Cystein-rich protein		123876
Astrotactin		600904
Neutrophil cytosolic factor-2 (65kD)		233710
Phospholipase A2, group IV		600522
Ribonuclease 4 (2',5'-oligoisoadenylate synthetase-dependent)		180435
Sterol O-acyltransferase (acyl-Coenzyme A: cholesterol	acyltransfe	102642
Tumor potentiating region (translocated promoter region)		189940
Bone gamma-carboxyglutamic acid protein		112260
Calcium channel, L type, alpha 1 polypeptide, isoform 6		601013
Laminin, gamma 2 (nicein (100kD), (kalinin (105kD), BM600 (100kD))		150292
Nephrotic syndrome, idiopathic, steroid-resistant		600995
Phosducin, pineal gland		171490
ATPase, Ca++ transporting, plasma membrane, 4		108732
Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and	cyclooxyge	600262
MHC-related protein-1		600764
Cathepsin E		116890
Epidermolysis bullosa 2A, junctional Herlitz		226450
G0 to G1 switch regulatory 8, 24kD		600861
Laminin, gamma 1 (formerly LAMB2)		150290
Fructose-2,6-bisphosphatase, cardiac isozyme		171835
Sjogren syndrome antigen A2 (60kD, ribonucleoprotein autoantigen	SS-A/Ro)	600063
PCTAIRE protein kinase 3		169190
Protein tyrosine phosphatase, receptor-type, c polypeptide		151460
Coagulation factor XIII, B polypeptide		134580
Factor H-related gene 2		600889
Retinitis pigmentosa-12 (autosomal recessive)		600105
Myogenic factor-4; myogenin		159980
Alzheimer disease-4		600759
Polymeric immunoglobulin receptor		173880
Arginine vasopressin receptor 3		600264

REGULATOR OF COMPLEMENT ACTIVATION CLUSTER		
Complement component 4-binding protein, alpha polypeptide		120830
Complement component 4-binding protein, beta polypeptide		120831
Calcium channel, L type, alpha-1 polypeptide, isoform-3 (skeletal	muscle)	114208
CD34 antigen		142230
Cardiomyopathy, dilated-2		601494
Complement component (3b/4b) receptor-1		120620
Complement component (3d/Epstein-Barr virus) receptor-2		120650
Decay-accelerating factor of complement		125240
ELK4, ETS-domain protein (SRF accessory protein 1)		600246
H factor-1 (complement)		134370
Laminin, beta 3 (nicein (125kD), kalinin (140kD), BM600 (125kD))		150310
Membrane cofactor protein (CD46, trophoblast-lymphocyte cross-reactive	antigen)	120920
Retinoblastoma-binding protein-5		600697
Renin		179820
Small nuclear ribonucleoprotein polypeptide E		128260
Troponin T2, cardiac		191045
van der Woude syndrome (lip pit syndrome)		119300
Centromere autoantigen F (400kD)		600236
Glutamyl-prolyl-tRNA synthetase		138295
Adenosine A1 receptor		102775
Fibromodulin		600245
Myosin-binding protein H		160795
Protein tyrosine phosphatase, non-receptor type 7		176889
Transiently-expressed axonal glycoprotein		190197
Guanylate kinase-1		139270
Guanylate kinase-2		139280
Homeo box-PROX1		601546
Rippling muscle disease 1		600332
Transforming growth factor, beta-2		190220
Usher syndrome 2A (autosomal recessive, mild)		276901
Homeo box-HB9		142994
H2.0 (Drosophilia)-like homeo box-1		142995
Inositol 1,4,5-trisphosphate 3-kinase B		147522
Cholinergic receptor, muscarinic 3		118494
ADP-ribosyltransferase NAD(+)		173870
ADP-ribosylation factor-1		103180
HTLV-1 related endogenous sequence		143025
Peptidase C		170000
Adenovirus-12 chromosome modification site-1q1		102930
Actinin, alpha-2		102573
Angiotensinogen		106150
Arrhythmogenic right ventricular dysplasia-2 (arrhythmogenic right	ventricular	600996
Oncogene RAB4		179511

Choroideremia-like		118825
Actin, alpha-1, skeletal muscle		102610
Fumarate hydratase		136850
Lamin B receptor		600024
Ryanodine receptor-2 (cardiac)		180902
RNA, 5S cluster 1		180420
Lysosomal trafficking regulator		214500
Nidogen		131390
Primase polypeptide 1 (49kD)		176635
Zinc finger protein-124 (HZF-16)		194631
Calpain, large polypeptide L2		114230
Chymosin pseudogene		118943
Housekeeping gene, 33kD		600279
eph-, elk-related tyrosine kinase		176945
Interferon, alpha-inducible protein (clone IFI-4)		146920
Interferon, alpha-inducible protein (clone IFI-15K)		147571
Guanylate binding protein 1, interferon-inducible, 67kD		600411
Hippocalcin, 23kD, Ca2+-binding protein		142622
Hydroxysteroid (11-beta) dehydrogenase 1		600713
Interleukin-10		124092
Insulin receptor-related receptor		147671
Potassium voltage-gated channel, Shaw-related subfamily, member 4		176265
Antigen identified by monoclonal antibody TRA-2-10		116954
5-methyltetrahydrofolate:L-homocysteine S-methyltransferase;	tetrahydrop	156570
OCT transmembrane protein		601054
RNA, small nucleolar E1		180645
Aplysia RAS-related homolog 6 (oncogene RHO H6)		165370
Melanoma associated gene		600134
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation	protein, ze	601288
Acid phosphatase 1, soluble		171500
Inhibitor of DNA binding 2, dominant negative		600386
Ornithine decarboxylase-1		165640
Proopiomelanocortin (adrenocorticotropin/beta-lipotropin)		176830
SRY (sex-determining region Y)-box 11		600898
Thyroid peroxidase		274500
Ribonucleotide reductase, M2 polypeptide		180390
Oncogene NMYC		164840
Syndecan 1		186355
Apolipoprotein B (including Ag(x) antigen)		107730
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 1		601257
Adenylate cyclase 3		600291
Spastic paraplegia-4 (autosomal dominant)		182601
Glucokinase (hexokinase 4) regulatory protein		600842
Ketohexokinase (fructokinase)		229800

Peptidylprolyl isomerase (cyclophilin)-like 1		601301
Anaplastic lymphoma kinase (Ki-1)		105590
Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/	enoyl-Coer	600890
Hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase	/enoyl-Coe	143450
Protein phosphatase 1, catalytic subunit, beta isoform		600590
Steroid-5-alpha-reductase, alpha polypeptide-2 (3-oxo-5 alpha-steroid	delta 4-de	264600
Deafness, autosomal recessive 9		601071
Sodium-calcium exchanger-1, sarcolemmal		182305
Xanthine dehydrogenase (xanthine oxidase)		278300
Mpv17, human homolog of glomerulosclerosis and nephrotic syndrome	in mouse	137960
Interferon, beta-3, fibroblast		147860
mutS (E. coli) homolog 2		120435
Splicing factor, arginine/serine-rich 7 (35kD)		600572
Son of sevenless (Drosophila) homolog 1		182530
Human T-cell leukemia virus enhancer factor		143089
Galactose enzyme activator		137030
Calmodulin 2		114182
CAD trifunctional protein of pyrimidine biosynthesis		114010
Glaucoma 3, primary infantile		231300
Holoprosencephaly-2, alobar or semilobar		157170
Luteinizing hormone/choriogonadotropin receptor		152790
Leptin, serum levels of		601694
Protein kinase, interferon-inducible double stranded RNA dependent		176871
Spectrin, beta, nonerythrocytic-1 (beta-fodrin)		182790
Drusen, radial, autosomal dominant (malattia Leventinese; Doyne	honeycomb	126600
Follicle stimulating hormone receptor		136435
Phosphatidylinositol glycan, class F		600153
Solute carrier family 3 (cystine, dibasic and neutral amino acid	transporte	104614
Carney complex		160980
Doyne honeycomb retinal dystrophy		126600
G/T mismatch-binding protein		600678
Malate dehydrogenase, soluble		154200
Solute carrier family 1 (glutamate/neutral amino acid transporter),	member 4	600229
RAB1, member RAS oncogene family		179508
Adducin-2 (beta)		102681
Alstrom syndrome		203800
Empty spiracles (Drosophila) homolog 1		600034
Meis1 (mouse) homolog		601739
Limb-girdle muscular dystrophy 2B (autosomal recessive)		253601
Actin, gamma 2, smooth muscle, enteric		102545
Annexin IV (placental anticoagulant protein II)		106491
Early growth response-4		128992
Glutamine-fructose-6-phosphate transaminase		138292
MAD protein (MAX-binding protein)		600021

Orthodenticle (Drosophila) homolog 1		600036
Transforming growth factor, alpha		190170
Glucosidase I		601336
Oncogene REL, avian reticuloendotheliosis		164910
CD8 antigen, alpha polypeptide (p32)		186910
CD8 antigen, beta polypeptide 1 (p37)		186730
Gamma-glutamyl carboxylase		137167
Hexokinase-2 (muscle)		601125
IMMUNOGLOBULIN KAPPA LIGHT CHAIN GENE CLUSTER		
Immunoglobulin kappa variable region		146980
Immunoglobulin kappa joining region		146970
Immunoglobulin kappa constant region		147200
Immunoglobulin kappa polypeptide deleting element		146780
Pancreatitis-associated protein		167805
Regenerating islet-derived 1 alpha (pancreatic stone protein,	pancreatic	167770
Rat regenerating islet-derived-like, human homolog (pancreatic stone	protein-like	167771
Cadherin-associated protein, related (alpha-catenin related protein)		114025
T-lymphocyte activation gene 519		188855
Pulmonary surfactant-associated protein-3, 18kD		178640
Latent transforming growth factor beta binding protein 1		150390
Lissencephaly gene 2		600217
Methionine adenosyltransferase II		601468
Transcriptional factor-9 (binds GC-rich sequences)		189901
Fatty acid-binding protein, liver		134650
Plasminogen-like		173340
Visinin-like 1		600817
Cytochrome c oxidase, subunit Vb		123866
Glaucoma 1, open angle, B (adult-onset)		137760
Inhibin, beta-2		147390
T-lymphocyte maturation-associated protein		188860
RAS-like protein B		179551
Vacuolar proton pump-3 (58kD subunit)		192132
Capping protein (actin filament), gelsolin-like		153615
BRCA1-associated RING domain 1		601593
Mycobacterial infections, susceptibility to		209950
Non-insulin-dependent diabetes mellitus (common, type 2)		601283
Tubulin, alpha, testis-specific		191110
Gibbon ape leukemia virus receptor-1		137570
Solute carrier family 9 (sodium/hydrogen exchanger), isoform 2		600530
Lymphoid nuclear protein related to AF4		601464
Interleukin-1 receptor, alpha; type I receptor		147810
Protein tyrosine kinase ZAP-70 (zeta-associated protein 70kD)		176947
Immunoglobulin orphon (transposed element) 1		147185
Paired box homeotic gene-8		167415

Diazepam-binding inhibitor		125950
Interleukin-1 receptor, beta; type II receptor		147811
Nucleolin		164035
Nephronophthisis-1 (juvenile)		256100
Protein C (inactivator of coagulation factors Va and VIIIa)		176860
Engrailed-1		131290
Interleukin-1, alpha		147760
Interleukin-1, beta		147720
Box-dependent MYC-interacting protein-1		601248
GLI-Kruppel family member GLI2 (oncogene GLI2)		165230
Glycophorin C (Gerbich blood group)		110750
Liver cancer oncogene		165320
Oncogene RAB6		179513
Viral integration site 1		164755
Secretin receptor		182098
Interleukin-1 receptor antagonist		147679
DNA segment, single copy, expressed probes (seven transmembrane	segment re	182203
Excision-repair cross-complementing rodent repair deficiency,	complemer	133510
Lactase		223000
Sodium channel, voltage-gated, type VI, alpha polypeptide		182392
Dipeptidylpeptidase IV (CD26; adenosine deaminase complexing	protein-2)	102720
Fibroblast activation protein, alpha subunit		600403
Sodium channel, voltage-gated, type II, alpha polypeptide		182390
Sodium channel, voltage-gated, type I, alpha polypeptide		182389
Sodium channel, voltage-gated, type III, alpha polypeptide		182391
Low density lipoprotein-related protein 2		600073
Cholinergic receptor, nicotinic, alpha polypeptide-1 (muscle)		100690
Natriuretic peptide precursor C		600296
Glycerol-3-phosphate dehydrogenase 2 (mitochondrial)		138430
Potassium inwardly-rectifying channel, subfamily J, member 3		601534
Collagen, type III, alpha-1 polypeptide		120180
Collagen V, alpha-2 polypeptide		120190
Glutamate decarboxylase-1, brain (67kD)		266100
Insulin-dependent diabetes mellitus 7		600321
Nuclear factor (erythroid-derived 2)-like 2		600492
Even-skipped homeo box-2		142991
HOMEO BOX D CLUSTER		
Homeo box-D3		142980
Homeo box-D4		142981
Homeo box-D9		142982
Homeo box-D10		142984
Homeo box-D8		142985
Homeo box-D11		142986
Homeo box-D1		142987

Homeo box-D12		142988
Homeo box-D13		142989
Integrin, alpha-4 (antigen CD49D, alpha-4 subunit of VLA-4 receptor)		192975
Integrin, alpha V (vitronectin receptor, alpha polypeptide)		193210
Nebulin		161650
Primary pulmonary hypertension 1		178600
Titin		188840
Chimerin, n-		118423
Tissue factor pathway inhibitor (lipoprotein-associated coagulation	inhibitor)	152310
Postmeiotic segregation increased (S. cerevisiae)-like 1		600258
cAMP response element-binding protein-2		123811
Distal-less homeo box 1		600029
Distal-less homeobox-2		126255
Inositol polyphosphate 1-phosphatase		147263
Neurogenic differentiation		601724
Wrinkly skin syndrome		278250
Glutaminase		138280
Ribulose 5-phosphate 3-epimerase		180480
Crystallin, beta A2		600836
Myosin, light polypeptide-1, alkali; skeletal, fast		160780
cAMP response element-binding protein-1		123810
Cytotoxic T-lymphocyte-associated serine esterase-4		123890
Origin of replication 2 (Saccharomyes) homolog-like		601182
Phospholipase C deleted in lung carcinoma		600597
Parathyroid hormone receptor 2		601469
CD28 antigen (Tp44)		186760
Cholinergic receptor, nicotinic, delta polypeptide		100720
Cholinergic receptor, nicotinic, gamma polypeptide		100730
Insulin-like growth factor-binding protein-2 (36kD)		146731
NADH dehydrogenase (ubiquinone), Fe-S protein-1 (75kD)		157655
Amyotrophic lateral sclerosis-2 (juvenile)		205100
Cholinesterase, serum, 2		177500
CRYSTALLIN, GAMMA POLYPEPTIDE CLUSTER		
Crystallin, gamma A		123660
Crystallin, gamma B		123670
Crystallin, gamma C		123680
Crystallin, gamma D		123690
Crystallin, gamma E pseudogene 1		123710
Crystallin, gamma F pseudogene 1		123720
Ichthyosis congenita II		601277
Paroxysmal dystonic choreoathetosis		118800
Protease inhibitor 7 (protease nexin I)		177010
Inhibin, alpha		147380
Cytochrome P450, subfamily XXVII (sterol 27-hydroxylase)		213700

Isocitrate dehydrogenase, soluble		147700
Avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4		600543
Fibronectin-1		135600
Insulin-dependent diabetes mellitus 13		601318
T-cell leukemia/lymphoma-4		186860
Acyl-Coenzyme A dehydrogenase, long chain		201460
Microtubule-associated protein-2		157130
Carbamoyl-phosphate synthetase 1, mitochondrial		237300
Desmin		125660
Interleukin-8 receptor, alpha		146929
Interleukin-8 receptor, beta		146928
Paired box homeotic gene-3		193500
X-ray repair, complementing defective, repair in Chinese hamster	cells-5	194364
Natural resistance-associated macrophage protein (might include	Leishmania	600266
Chromogranin C (secretogranin II)		118930
Transition protein-1		190231
Tensin		600076
Villin-1		193040
Glypican 1		600395
Insulin receptor substrate-1		147545
Anion exchanger 3, neuronal		106195
Alanine-glyoxylate aminotransferase, liver-specific peroxisomal		259900
Collagen IV, alpha-3 polypeptide (Goodpasture antigen)		120070
Collagen IV, alpha-4 polypeptide		120131
Glucagon		138030
Vigilin		600371
Alkaline phosphatase, intestinal		171740
5-hydroxytryptamine (serotonin) receptor 2B		601122
Alkaline phosphatase, placental (Regan isozyme)		171800
Alkaline phosphatase, placental-like 2		171810
Brachydactyly type E		113300
Brachydactyly-mental retardation syndrome		600430
Collagen VI, alpha-3 polypeptide		120250
Differentiation 6 (deoxyguanosine triphosphate triphosphohydrolase)		601506
High-density lipoprotein-binding protein		142695
S-antigen; retina and pineal gland (arrestin)		181031
Programmed cell death 1		600244
Adrenergic, alpha-2B-, receptor		104260
Eukaryotic translation elongation factor 1, beta 2		600655
Hippocalcin-like 1		600207
Integrin, alpha-6		147556
Integrin, beta-6		147558
Antigen identified by monoclonal antibody AUA1		185535
Neuropeptide Y Y3 receptor		162643

Prothymosin, alpha (gene sequence 28)		188390
Solute carrier family 9 (sodium/hydrogen exchanger), isoform 4		600531
Tachykinin 1 receptor (substance P receptor, neurokinin-1 receptor)		162323
Tumor necrosis factor, alpha-induced protein 6		600410
Uridyl diphosphate glucose pyrophosphorylase-2		191760
UDP-glucuronosyltransferase-1 family, member 1		191740
Urocortin		600945
Ultraviolet damage, repair of, in UV24		192070
Zinc finger protein-2		194500
Cholecystokinin		118440
G protein-coupled receptor V28		601470
SEP transmembrane protein		601053
Oxytocin receptor		167055
Plasmocytoma-associated neuronal glycoprotein		601325
ATPase, Ca++ transporting, plasma membrane, 2		108733
Inositol 1,4,5-triphosphate receptor, type 1		147265
von Hippel-Lindau syndrome		193300
Interleukin-5 receptor, alpha		147851
Fanconi anemia, complementation group D		227646
RAD23 (Saccharomyces cerevisiae) homolog B		600062
Biotinidase		253260
Oncogene RAF1		164760
Nuclear hormone receptor TR4		601426
Xeroderma pigmentosum, complementation group C		278720
Marfan syndrome, type II		154705
SEC13, yeast, related		600152
Fibulin-2		135821
Solute carrier family 6 (neurotransmitter transporter, GABA), member 1		137165
Cardiomyopathy, dilated, with conduction defect-2		601154
Solute carrier family 6 (neurotransmitter transporter, taurine),	member 6	186854
Thyroid hormone receptor, beta (avian erythroblastic leukemia viral	(v-erb-a)	190160
IMP (inosine 5'-phosphate) dehydrogenase-2		146691
Deleted in azoospermia homolog		601486
Retinoic acid receptor, beta polypeptide		180220
RAS-related protein-5		179512
Sodium channel, voltage-gated, type V, alpha polypeptide		600163
Acetyl-Coenzyme A acyltransferase (peroxisomal 3-oxoacyl-Coenzyme A	thiolase)	261510
Natural tumor-killer recognition sequence		161565
Small-cell cancer of lung		182280
Teratocarcinoma-derived growth factor-1		187395
Transforming growth factor, beta receptor II (70-80kD)		190182
Vasoactive intestinal peptide receptor 1		192321
Transglutaminase 4 (prostate)		600585
Catenin (cadherin-associated protein), beta 1 (88kD)		116806

Transcription elongation factor A (SII)		601425
Parathyroid hormone receptor		168468
Zinc finger protein-35 (HF.10)		194533
Galactosidase, beta-1		230500
Collagen VII, alpha-1 polypeptide		120120
mutL (E. coli) homolog 1		120436
Macrophage stimulating 1 receptor (c-met-related tyrosine kinase)		600168
Semaphorin III/F		601124
Semaphorin A(V)		601281
Ubiquinol-cytochrome c reductase core protein I		191328
G protein-coupled receptor-5		600552
Troponin C1, slow		191040
Aminomethyltransferase (glycine cleavage system protein T)		238310
ADP-ribosylation factor 2		600507
Inter-alpha (globulin) inhibitor, H1 polypeptide		147270
Pre-alpha (globulin) inhibitor, H3 polypeptide		146650
Progressive external ophthalmoplegia, type 2		601226
Aminoacylase-1		104620
Aminolevulinate, delta-, synthase-1		125290
Spinocerebellar ataxia 7 (olivopontocerebellar atrophy with retinal	degenerati	164500
Larsen syndrome 1 (autosomal dominant)		150250
N-acylaminoacyl-peptide hydrolase		102645
Aplysia RAS-related homolog 12 (oncogene RHO H12)		165390
Cell division cycle 25A		116947
Chemokine (C-C) receptor 1		601159
Chemokine (C-C) receptor 5		601373
Dystrophin-associated glycoprotein-1		128239
Guanine nucleotide-binding protein (G protein), alpha-inhibiting	activity po	139360
Guanine nucleotide-binding protein (G protein), alpha-transducing	(transducin	139330
Laminin, beta 2 (laminin S)		150325
Macrophage-stimulating-1 (hepatocyte growth factor-like)		142408
T-cell leukemia translocation altered gene		600690
Ubiquitin-activating enzyme-2		191325
Deafness, autosomal recessive 6		600971
Histamine receptor, subclass H1		600167
Wingless-type MMTV integration site 5A, human homolog of		164975
TATA element modulatory factor 1		601126
Peroxisomal branched chain acyl-CoA oxidase		601641
Calcium channel, L type, alpha-1 polypeptide, isoform-2	(neuroendo	114206
Transketolase-1		277730
Fragile histidine triad gene		601153
Protein tyrosine phosphatase, receptor-type, gamma polypeptide		176886
Renal carcinoma, familial, associated 1		144700
Microphthalmia-associated transcription factor		156845

Bardet-Biedl syndrome 3		600151
Pyruvate dehydrogenase, E1 beta polypeptide		179060
Glycogen branching enzyme		232500
Interleukin-12A (natural killer cell stimulatory factor-1, cytotoxic	lymphocyte	161560
Zinc finger protein-80 (pT17)		194553
eph-like tyrosine kinase 1 (human embryo kinase 1)		179611
Dementia, familial, nonspecific		600795
Protein S, alpha		176880
Protein S pseudogene (beta)		177030
POU domain, class 1, transcription factor 1 (Pit1, growth hormone	factor 1)	173110
Myosin, light polypeptide-3, alkali; ventricular, skeletal, slow		160790
Protein kinase C, delta		176977
Synapsin II		600755
Topoisomerase (DNA) II, beta (180kD)		126431
Thyrotropin-releasing hormone		275120
Myosin-light-polypeptide kinase		600922
CTP: phosphocholine cytidylyltransferase		123695
Ribophorin I		180470
Glutathione peroxidase-1		138320
G protein-coupled receptor 15		601166
Coproporphyrinogen oxidase		121300
MRC OX-2 antigen		155970
Collagen VIII, alpha-1 polypeptide		120251
Fatty-acid-Coenzyme A ligase, long chain 1		152425
Hypoparathyroidism		146200
Hematopoietic cell-specific Lyn substrate 1		601306
Uridine monophosphate synthetase (orotate phosphoribosyl transferase	and orotidi	258900
Charcot-Marie-Tooth neuropathy 2B		600882
Malignant hyperthermia susceptibility 4		600467
Activated leucocyte cell adhesion molecule		601662
Antigen identified by monoclonal antibody 1D8	(integrin-a	601028
Adenylate cyclase 5		600293
Dopamine receptor D3		126451
Zinc finger protein-9 (a cellular retroviral nucleic acid-binding	protein)	116955
CD80 antigen (CD28 antigen ligand 1, B7-1 antigen)		112203
Cell division cycle-like 1 (mitotin)		116945
NCK tyrosine kinase		600508
Stefin A (cystatin A)		184600
Transferrin		190000
Moebius syndrome 2		601471
Propionyl Coenzyme A carboxylase, beta polypeptide		232050
Retinol-binding protein-1, cellular		180260
Acid phosphatase, prostate		171790
eph tyrosine kinase 2		600905

Homogentisate 1,2-dioxygenase (homogentisate oxidase)		203500
Lactotransferrin		150210
Benign chronic pemphigus (Hailey-Hailey disease)		169600
Calcium-sensing receptor		601199
Ceruloplasmin		117700
Rhodopsin		180380
Angiotensin receptor 1		106165
Membrane component, chromosome 3, surface marker 1		191155
Usher syndrome-3		276902
Membrane metallo-endopeptidase (common acute lymphocytic leukemia	antigen)	120520
Sialyltransferase 1 (beta-galactoside alpha-2,6-sialytransferase)		109675
NOV transmembrane protein		601055
Retinol-binding protein-2, cellular		180280
Blepharophimosis, epicanthus inversus and ptosis		110100
RAS p21 protein activator 2		601589
FRAP-related protein-1		601215
Immunoglobulin kappa J region recombination signal-binding protein-1		147183
Myeloid leukemia factor-1		601402
Profilin-2		176590
Sucrase-isomaltase		222900
Ectropic viral integration site-1; oncogene EVI1		165215
Myelodysplasia syndrome-1		600049
Ribosomal protein L22		180474
Chloride channel 2		600570
Butyrylcholinesterase		177400
Epithelial cell transforming sequence 2 oncogene		600586
Solute carrier family 2 (facilitated glucose transporter), member 2		138160
Transferrin receptor		190010
Oligodendrocyte-specific protein		601326
Apolipoprotein D		107740
Cornelia de Lange syndrome		122470
Phosphatidylinositol 3-kinase, catalytic, alpha polypeptide		171834
SRY (sex determining region Y)-box 2		184429
Megakaryocyte growth and development factor		600044
Alpha-2HS-glycoprotein		138680
B-cell CLL/lymphoma-6		109565
Dishevelled 3 (homologous to Drosophila dsh)		601368
Enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase		261515
Friend murine leukemia virus integration site 3, homolog of		136770
Histidine-rich glycoprotein		142640
Kininogen		228960
Replication factor C (activator 1) 4 (37kD)		102577
C4/C2 activating component of Ra-reactive factor		600521
Eukaryotic translation initiation factor 4 gamma		600495

Clathrin-associated/assembly/adaptor protein, medium 1		601024
Ets variant gene 5 (ets-related molecule)		601600
Fibroblast growth factor 12		601513
Lipoma-preferred-partner gene		600700
Somatostatin		182450
Hairy (Drosophila)-homolog		139605
Optic atrophy 1 (autosomal dominant)		165500
Discs, large (Drosophila) homolog 1		601014
Melanoma-associated antigen p97		155750
Mucin 4, tracheobronchial		158372
Ribosomal protein L35A		180468
Temperature sensitive, tsAF8, complement		116950
Carboxypeptidase A3, mast cell		114851
Crystallin, gamma S		123730
Excision-repair complementing defective repair in mouse cells		133535
Endogenous retroviral sequence, truncated 4 (band T4, 14.9kb)		190970
Neuron growth-associated protein 43		162060
GATA-binding protein 2		137295
Glycoprotein IX, platelet		173515
Glutathione S-transferase M1-like		138270
Herpes virus sensitivity		142450
Purinergic receptor P2Y, G-protein coupled, 1		601167
Casein, beta		115460
Superoxide dismutase-3, extracellular		185490
Adducin-1 (alpha)		102680
Diacylglycerol kinase (110kD)		601207
Deafness, autosomal dominant 6		600965
Dopamine receptor D1B		126448
Fibroblast growth factor receptor-3		134934
G protein-coupled receptor kinase-2 (Drosophila)-like		137026
Huntingtin		143100
Iduronidase, alpha-L-		252800
Low density lipoprotein-related protein-associated protein 1	(alpha-2-m	104225
Myosin, light polypeptide-5, regulatory		160782
Phosphodiesterase 6B, cGMP-specific, rod, beta		180072
Wolf-Hirschhorn syndrome chromosome region		194190
Zinc finger protein-141 (clone pHZ-44)		194648
Homeo box (H6 family) 1		142992
msh (Drosophila) homeo box homolog 1 (formerly homeo box 7)		142983
Wolfram syndrome		222300
Dopamine receptor D5		126453
Craniosynostosis, Adelaide type		600593
Ellis-van Creveld syndrome		225500
S100 calcium-binding protein P		600614

Chondrodysplasia punctata, rhizomelic		215100
CD38 antigen (p45); ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase		107270
Quinoid dihydropteridine reductase		261630
Eukaryotic translation initiation factor 4E-like-1		133440
Ubiquitin C-terminal esterase L1		191342
Replication factor C (activator 1) 1 (145kD)		102579
Gamma-aminobutyric acid (GABA) A receptor, alpha-4		137141
Phosphoglucomutase-2		172000
Cyclic nucleotide gated channel (photoreceptor), cGMP gated 1	(alpha)	123825
Bone morphogenetic protein-3		112263
Gamma-aminobutyric acid (GABA) A receptor, gamma-1		137166
Gamma-aminobutyric acid (GABA) A receptor, alpha-2		137140
Gamma-aminobutyric acid (GABA) A receptor, beta-1		137190
Total anomalous pulmonary venous return		106700
tec protein tyrosine kinase		600583
TXK tyrosine kinase		600058
Pro-platelet basic protein (beta-thromboglobulin, connective tissue	tissue-activ	121010
Peptidase S		170250
Metallothionein 2 pseudogene 1 (processed)		156340
Membrane component, chromosomal 4, surface marker (35kD glycoprotein)		600718
Psoriasis susceptibility 3		601454
Afamin		104145
Alpha-fetoprotein		104150
Albumin		103600
Periodontitis, juvenile		170650
Statherin		184470
Amelogenesis imperfecta 2, hypocalcification (autosomal dominant)		104500
Group-specific component (vitamin D-binding protein)		139200
Limb-girdle muscular dystrophy, type 2E (sarcoglycan, beta-)		600900
Kinase insert domain receptor		191306
Hardy-Zuckerman 4 feline sarcoma (v-kit) oncogene		164920
Phosphoribosylaminoimidazole carboxylase		172439
Platelet-derived growth factor receptor, alpha polypeptide		173490
Polymerase (RNA) II (DNA directed) polypeptide B (140kD)		180661
Phosphoribosylpyrophosphate amidotransferase		172450
Platelet factor 4		173460
Platelet factor 4, variant 1 (PF4-like)		173461
Thromboglobulin, beta-2		188035
Centromere autoantigen C (140kD)		117141
Histatin-1		142701
Histatin-2		142702
UDP-glucuronyltransferase (steroid metabolizing), 4		600067
UDP-glucuronyltransferase-2B (steroid metabolizing), 9		600218
UDP-glucuronyltransferase-2B (steroid metabolizing), 15		600219

Amphiregulin		104640
Betacellulin		600345
Dentinogenesis imperfecta-1		125490
Neutrophil-activating peptide ENA-78		600324
Interleukin-8		146930
Sulfotransferase, estrogen-preferring		600043
Deoxycytidine kinase		125450
Adrenergic, alpha-2C-, receptor		104250
Clathrin, light polypeptide (Lcb)		118970
Ameloblastin		601259
Annexin III (lipocortin III)		106490
Dentin matrix acidic phosphoprotein		600980
Fibroblast growth factor-5		165190
GRO1 oncogene (melanoma growth-stimulating activity)		155730
GRO2 oncogene		139110
GRO3 oncogene		139111
Immunoglobulin J polypeptide, linker protein for		147790
Interferon-inducible cytokine IP-10		147310
Myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila)	homolog),	159557
UDP-N-acetylglucosamine-lysosomal-enzyme N-acetylglucosamine	phosphotra	252500
Parkinson disease, familial-1		601508
Polycystic kidney disease-2 (autosomal dominant)		173910
Formaldehyde dehydrogenase		136490
Alcohol dehydrogenase (class III), chi polypeptide		103710
Fecundity gene, Boorla, of sheep, homolog of		134720
Integrin-binding sialoprotein (bone sialoprotein II)		147563
RAP1, GTP-GDP dissociation stimulator 1		179502
Secreted phosphoprotein-1 (osteopontin, bone sialoprotein)		166490
AU-rich element RNA-binding protein 1, 37kD		601324
Gonadotropin-releasing hormone receptor		138850
Protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95	(Fas)-asso	600267
Synuclein, alpha (non A4 component of amyloid precursor)		163890
ALCOHOL DEHYDROGENASE, CLASS I, CLUSTER		
Alcohol dehydrogenase (class I), alpha polypeptide		103700
Alcohol dehydrogenase (class I), beta polypeptide		103720
Alcohol dehydrogenase (class I), gamma polypeptide		103730
Alcohol dehydrogenase (class II), pi polypeptide		103740
Atonal (drosophila) homolog 1		601461
Pyruvate dehydrogenase, E1-alpha polypeptide, testis specific	form	179061
Microsomal triglyceride transfer protein (large polypeptide, 88kD)		157147
L-3-hydroxyacyl-CoA dehydrogenase, short chain		601609
Alcohol dehydrogenase-7		600086
Nuclear factor of kappa light chain gene enhancer in B-cells 1 (p105)		164011
Lymphoid enhancer-binding factor-1		153245

H2AZ histone		142763
Centromere autoantigen E (312kD)		117143
Epidermal growth factor		131530
I factor (complement)		217030
Iris hypoplasia with early onset glaucoma, autosomal dominant		137600
Solurshin (RIEG bicoid-related homeobox transcription factor)		601542
Ankyrin-2, nonerythrocytic		106410
Fibroblast growth factor-2 (basic)		134920
Long QT syndrome, type 4		600919
UDP-galactose ceramide galactosyltransferase (cerebroside	synthase)	601291
Interleukin-2		147680
Annexin V (endonexin II)		131230
Cyclin A		123835
FIBRINOGEN GENE CLUSTER		
Fibrinogen, alpha polypeptide		134820
Fibrinogen, beta polypeptide		134830
Fibrinogen, gamma polypeptide		134850
Anterior segment mesenchymal dysgenesis		107250
Fatty acid-binding protein, intestinal		134640
Glycophorin B (includes Ss blood group)		111740
Glycophorin E		138590
Red hair color		266300
Stoltzfus blood group		111800
Sclerotylosis		181600
Glycophorin A (includes MN blood group)		111300
High-mobility group (nonhistone chromosomal) protein 2		163906
Interleukin 15		600554
Neuropeptide Y receptor Y2		162642
Ribonuclease 4 (2', 5'-oligoisoadenylate synthetase		601213
Uncoupling protein		113730
Tryptophan oxygenase		191070
Mineralocorticoid receptor (aldosterone receptor)		600983
Brn3b POU domain transcription factor		113725
Neuropeptide Y receptor		162641
Guanylate cyclase 1, soluble, alpha 3		139396
Glycerol kinase pseudogene 3		600149
Guanylate cyclase 1, soluble, beta 3		139397
Aspartylglucosaminidase		208400
Glutamate receptor, ionotropic, AMPA 2		138247
Electron transfer flavoprotein:ubiquinone oxidoreductase		231675
Hepatitis B virus integration site-6		142380
Glycoprotein M6A		601275
Fatty-acid-Coenzyme A ligase, long-chain 2		152426
FAT tumor suppressor (Drosophila) homolog		600976

Hydroxyprostaglandin dehydrogenase 15-(NAD)		601688
Adenine nucleotide translocator-1 (skeletal muscle)		103220
Coagulation factor XI (plasma thromboplastin antecedent)		264900
FSHD region gene 1		601278
Facioscapulohumeral muscular dystrophy 1A		158900
Heat shock 90kD protein, alpha-like 2		140574
Kallikrein, plasma (Fletcher factor)		229000
Interferon regulatory factor-2		147576
Melatonin receptor 1A		600665
ATPase, Na+K+ transporting, beta-1 polypeptide-like		182370
Cholecystokinin A receptor		118444
Chloride channel-3		600580
Cytochrome c oxidase subunit VIIa polypeptide-2 (liver)		123996
Carboxypeptidase E		114855
Endothelin receptor type A		131243
Galactosyltransferase activator		137061
Leukocyte antigen group 5		151450
Antigen identified by monoclonal antibody A-3A4		107253
Mannosidase, beta A, lysosomal		248510
Phosphodiesterase-1A		171890
Peptidylprolyl isomerase D (cyclophilin D)		601753
Protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform	(calcineuri	114105
Senescence (cellular)-related		116960
Temperature sensitivity complementation, ts13		187320
UDP-glucuronosyltransferase-2B (steroid metabolizing), 8		600069
Arginyl-tRNA synthetase		107820
Adenylyl cyclase-2, brain		103071
Solute carrier family 6 (neurotransmitter transporter, dopamine),	member 3	126455
Solute carrier family 9 (sodium/hydrogen exchanger), isoform 3		182307
Death-associated protein		600954
Myosin X		601481
Succinate dehydrogenase 2, flavoprotein (Fp) subunit		600857
Steroid 5-alpha-reductase		184753
Moloney leukemia virus integration site-2		157960
Pro-melanin-concentrating hormone-like 1		176793
Cadherin 12 (N-cadherin 2)		600562
3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1		142940
Zinc finger protein-4		194520
Natriuretic peptide receptor C		108962
Prostaglandin E receptor 2, EP2 subtype		176804
Glial cell line derived neurotrophic factor		600837
Complement component-6		217050
Complement component-7		217070
Complement component-9		120940

Differentially expressed in ovarian cancer-2		601236
Interleukin-7 receptor		146661
Succinyl CoA:3-oxoacid CoA transferase		601424
S-phase kinase-associated protein 2 (p45)		601436
Solute carrier family 1 (glial high affinity glutamate transporter),	member 3	600111
Growth hormone receptor		600946
Leukemia inhibitory factor receptor		151443
Prolactin receptor		176761
Threonyl-tRNA synthetase		187790
Chondrocalcinosis 1 (calcium pyrophosphate-deposition disease, early	onset oste	118600
Leucyl-tRNA synthetase		151350
ISL1 transcription factor, LIM/homeodomain (islet-1)		600366
Synaptotagmin 4		600103
Interleukin 6 signal transducer (gp130, oncostatin M receptor)		600694
Cytotoxic T-lymphocyte-associated serine esterase-3 (Hanukah factor	serine prot	140050
MutS (E. coli) homolog 3		600887
Arylsulfatase B		253200
Klippel-Feil syndrome		214300
5-hydroxytryptamine-1A receptor		109760
Dihydrofolate reductase		126060
Corticotropin releasing hormone-binding protein		122559
Schizophrenia disorder-1		181510
Cyclin B1		123836
Phosphodiesterase 4D, cAMP-specific (dunce (Drosophila)-homolog	phosphodi	600129
Forkhead (Drosophila)-like 8		601091
Pro-melanin-concentrating hormone-like 2		176794
Zinc finger protein-5		194530
Chondroitin sulfate proteoglycan-2 (versican)		118661
Eukaryotic translation elongation factor-1, beta-3		600656
General transcription factor IIH, polypeptide 2 (44kD subunit)		601748
Spinal muscular atrophy		253300
Neuronal apoptosis inhibitory protein		600355
Survival motor neuron 1, telomeric		600354
Survival of motor neuron 2, centromeric		601627
Coagulation factor II (thrombin) receptor		187930
G-protein-coupled receptor 11		600933
Phosphatidylinositol-3 kinase associated p85-alpha		171833
Hexosaminidase B (beta polypeptide)		268800
Microtubule-associated protein-1B		157129
Wagner syndrome (erosine vitreoretinopathy)		143200
X-ray repair, complementing defective, repair in Chinese hamster	cells-4	194363
Cartilage link protein		115435
Ribosomal protein S20A		180463
Creatine kinase, mitochondrial-2 (sarcomeric)		123295

RAS p21 protein activator 1 (GTPase activating protein)		139150
3-hydroxy-3-methylglutaryl coenzyme A reductase;	HMG CoA	142910
Glutaredoxin (thioltransferase)		600443
MADS box transcription enhancer factor 2, polypeptide C (myocyte	enhancer f	600662
Transcription factor COUP 1 (chicken ovalbumin upstream promoter 1,	v-erba hom	600809
Peptidylglycine alpha-amidating monooxygenase		170270
Calpastatin		114090
Neuroendocrine convertase-1 (pro-protein-convertase PC1)		162150
Mutated in colorectal cancers		159350
Adenomatous polyposis coli		175100
fer (fps/fes related) tyrosine kinase		176942
Mannosidase, alpha type II		154582
Signal recognition particle 19kD		182175
Ca(2+)-calmodulin-dependent protein kinase type IV of brain		114080
U2 small nuclear ribonucleoprotein auxiliary factor, small subunit 1		601079
DNA segment, single copy probe LNS-CAI/LNS-CAII (deleted in polyposis	1)	125265
Limb-girdle muscular dystrophy, autosomal dominant		159000
Diphtheria toxin sensitivity (heparin-binding EGF-like growth factor)		126150
Fibrillin-2		121050
Integrin, alpha-2 (CD49B; alpha-2 subunit of VLA-2 receptor; platelet	antigen Br)	192974
Neurogenic differentiation 3		601726
Protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform		176915
Ubiquitin-conjugating enzyme E2B (RAD6 homolog)		179095
Ileal lipid-binding protein		600422
Solute carrier family 12 (sodium/potassium/chloride transporters),	member 2	600840
Lamin B1		150340
Lysyl oxidase		153455
Cell division cycle 25C		157680
Catenin (cadherin-associated protein), alpha 1 (102kD)		116805
Fibroblast growth factor-1 (acidic)		131220
Glucocorticoid receptor, lymphocyte		138040
Interleukin-13		147683
Selenoprotein P, plasma, 1		601484
Transcription elongation factor B (SIII), polypeptide 1-like		600847
Transforming growth factor, beta-induced, 68kD		601692
Platelet-derived growth factor receptor, beta polypeptide		173410
Caudal type homeo box transcription factor 1		600746
Bronchial hyperresponsiveness-1 (bronchial asthma)		600807
Deafness, autosomal dominant 1		124900
Ribosomal protein S14		130620
Schistosoma mansoni, susceptibility/resistance to		181460
CD14 antigen		158120
Colony-stimulating factor-2 (granulocyte-macrophage)		138960
Early growth response-1		128990

Immunoglobulin E concentration, serum		147061
Interleukin-3		147740
Interleukin-4		147780
Interleukin-5		147850
Interleukin-9		146931
Interferon regulatory factor-1		147575
Mortalin-2 (perinuclear)		600548
Transcription factor-7, T-cell specific		189908
Heat shock 70kD protein 4		601113
Gamma-aminobutyric acid (GABA) A receptor, gamma-2		137164
Interleukin-12B (natural killer cell stimulatory factor-2, cytotoxic	lymphocyte	161561
Gamma-aminobutyric acid (GABA) A receptor, alpha-6		137143
Protein kinase C inhibitor 1		601640
Mannosyl (alpha-1,3-)-glycoprotein beta-1,2,	N-acetylgl	160995
Phosphodiesterase 6A, cGMP-specific, rod, alpha		180071
Osteonectin (secreted protein, acidic, cysteine-rich)		182120
GM2 ganglioside activator protein		272750
CD74 antigen (invariant polpypeptide of major histocompatibility	class II an	142790
Glycine receptor, alpha 1		138491
T-cell-specific tyrosine kinase; homolog of mouse T-cell itk/tsk	tyrosine ki	186973
Diastrophic dysplasia sulfate transporter		222600
Glutathione peroxidase 3 (plasma)		138321
Treacher Collins-Franceschetti syndrome-1		154500
Heparan sulfate-N-deacetylase/N-sulfotransferase		600853
Microfibrillar-associated protein-3		600491
Adrenergic, beta-2-, receptor, surface		109690
Annexin VI (calcium-binding protein p68)		114070
Adrenergic, alpha-1B-, receptor		104220
Glutamate receptor, ionotropic, AMPA 1		138248
Sarcoglyan, delta-		601411
Limb girdle muscular dystrophy 2F (autosomal recessive)		601287
Coagulation factor XII (Hageman factor)		234000
Ribosomal protein S17A-like-1		180461
Ribosomal protein S20B		180464
Lymphocyte cytosolic protein 2 (SH2 domain-containing leukocyte	protein of	601603
Hyaluronan-mediated motility receptor (RHAMM)		600936
Colony-stimulating factor-1 receptor; oncogene FMS (McDonough	feline sarc	164770
Cardiac-specific homeo box		600584
Dual specificity phosphatase 1		600714
Forkhead (Drosophila)-like 10		601093
Solute carrier family 2 (facilitated glucose transporter), member 3	pseudogen	138240
fms-related tyrosine kinase 4		136352
Gamma-aminobutyric acid (GABA) A receptor, beta 2		600232
Gamma-aminobutyric acid (GABA) A receptor, alpha-1		137160

msh (Drosophila) homeo box homolog 2		123101
Calnexin		114217
Chromate resistance (sulfate transport)		118840
G protein-coupled receptor kinase 6		600869
Hexokinase 3 (white cell)		142570
Leukotriene C4 synthase		246530
Nucleophosmin 1 (nucleolar phosphoprotein B23, numatrin)		164040
Sodium phosphate transport 2		182309
Dopamine receptor D1		126449
Fibroblast growth factor receptor-4		134935
Heterogeneous nuclear ribonucleoprotein H		601035
Cockayne syndrome 1 (classical)		216400
Drebrin-1		126660
ERBA-related gene-3		132890
Histidyl-tRNA synthetase		142810
Integrin, alpha-1		192968
Serine protease inhibitor, Kazal type I (pancreatic secretory trypsin	inhibitor)	167790
tRNA proline (UGG) 3		189912
tRNA threonine (UGU) 1		189913
Zinc finger protein-3		194510
Protease inhibitor 2 (anti-elastase), monocyte/neutrophil derived		130135
Colipase, pancreatic		120105
Desmoplakin		125647
Inositol 1,4,5-triphosphate receptor, type 3		147267
NAD(P)H menadione oxidoreductase-1, dioxin-inducible-2		160998
Orofacial cleft-1 (cleft lip with or without cleft palate; isolated	cleft palate	119530
Forkhead (Drosophila)-like 7		601090
Protease inhibitor 6 (placental thrombin inhibitor)		173321
Coagulation factor XIII, A polypeptide		134570
Malic enzyme, mitochondrial		154270
Transcription factor AP-2 alpha (activating enhancer-binding protein	2 alpha)	107580
Endothelin-1		131240
Human immunodeficiency virus type I enhancer-binding protein-1		194540
Ataxin-1		601556
DEK gene		125264
Guanine monophosphate reductase		139265
Schizophrenia disorder 3		600511
SRY (sex determining region Y)-box 4		184430
Friend murine leukemia virus integration site 1, homolog of		136750
Sodium phosphate transport 1 (kidney)		182308
H-Y antigen, structural gene for		143170
Insulin-like DNA sequence		147490
tRNA methionine initiator-1		180620
tRNA methionine initiator-2		180621

tRNA alanine		601431
tRNA methionine 1		601433
tRNA arginine 3		601432
Prolactin		176760
H1 histone, family 1 (testis-specific)		142709
H1 histone, family 3		142210
E2F transcription factor 3		600427
Inhibitor of DNA binding 4, dominant negative helix-loop-helix	protein	600581
Myelin-oligodendrocyte glycoprotein		159465
Branched chain keto acid dehydrogenase E1, beta polypeptide		248611
Peroxisomal AAA-type ATPase 1		601498
Protein phosphatase 1, regulatory (inhibitor) subunit 2 pseudogene		600100
Advanced glycosylation end product-specific receptor		600214
Ankylosing spondylitis		106300
Atrial septal defect, secundum type		108800
Properdin factor B		138470
Complement component-2		217000
Complement component-4A		120810
Complement component-4B		120820
Collagen XI, alpha-2 polypeptide		120290
cAMP responsive element binding protein-like 1		600984
Casein kinase-2, beta polypeptide		115441
Cytochrome P450, subfamily XXI; steroid 21-hydroxylase		201910
Cytochrome P450, subfamily XXI (steroid 21-hydroxylase)		184754
HLA-B associated transcript-2		142580
HLA-B associated transcript-3		142590
HLA-B associated transcript-4		142610
HLA-B associated transcript-1		142560
HLA-B associated transcript-5		142620
Minor histocompatibility antigen HA-2		600642
Ke4 gene, mouse, human homolog of		601416
Ke6 gene, mouse, human homolog of		601417
Dyslexia, specific, 2		600202
Renal glucosuria-1		233100
Guanine nucleotide binding protein-like 1		143024
General transcription factor IIH, polypeptide 4		601760
Hemochromatosis		235200
Hexabrachion-like (tenascin-X)		600261
MAJOR HISTOCOMPATIBILITY COMPLEX		
HLA-A tissue type		142800
HLA-B tissue type		142830
HLA-C tissue type		142840
Major histocompatibility complex, class I (cosmid cda12; HLA-F tissue	type)	143110
Major histocompatibility complex, class II, DM alpha		142855

Major histocompatibility complex, class II, DM beta		142856
Major histocompatibility complex, class II, DO beta		600629
HLA-DP tissue type		142880
Major histocompatibility complex, class II, DP beta-1		142858
Major histocompatibility complex, class II, DQ alpha-1		146880
Major histocompatibility complex, class II, DQ beta-1		142857
HLA-DR tissue type		142860
HLA-DZ tissue type		142930
HLA-E tissue type		143010
HLA-G histocompatibility antigen, class I		142871
HLA-H histocompatibility antigen, class I		142925
Human monocyte antigen A		143070
Human monocyte antigen B		143080
Heat shock 70kD protein-1		140550
Heat shock 70kD protein-like-1		140559
Insulin-dependent diabetes mellitus-1		222100
Immune response to synthetic polypeptides-1		147080
Immune response to synthetic polypeptides-2		147090
Immune response to synthetic polypeptide--IRGAT		146820
Immune suppression to streptococcal antigen		146850
Large multifunctional protease-2 (proteasome-related sequence-2)		177045
Large multifunctional protease-7 (proteasome-related sequence-7)		177046
Leukocyte-specific transcript 1		601000
Lymphotoxin alpha (formerly tumor necrosis factor beta)		153440
Lymphotoxin B		600978
MHC class I polypeptide-related sequence A		600169
Mixed lymphocyte reaction, weak		157860
Motilin		158270
Neuroepithelial tyrosine kinase		600408
Neuraminidase		256550
Nuclear factor of kappa light polypeptide gene enhancer in	B-cells inhi	601022
Transcription factor NF-Y, A subunit		189903
Olfactory receptor 2		600578
Octomer-binding transcription factor-3		164177
Pre-B-cell leukemia transcription factor-2		176311
Paget disease of bone		167250
Primed lymphocyte test-1		176680
RD RNA-binding protein		154040
RING3 gene		601540
Retinitis pigmentosa-14 (autosomal recessive)		600132
Ribosomal protein S18		180473
Ragweed sensitivity		179450
Retinoid X receptor, beta		180246
Transporter-1, ABC (ATP-binding cassette)		170260

Transporter-2, ABC (ATP-binding cassette)		170261
Transcription factor 19 (SC1)		600912
Tumor necrosis factor (cachectin)		191160
Tubulin, beta polypeptide		191130
Zinc finger protein 173		600830
Lymphocyte cytosolic protein, molecular weight 20kD		153380
Cytokine suppressive anti-inflammatory drug binding protein 1		600289
Glyoxalase I		138750
Laryngeal adductor paralysis		150270
T-complex homolog tcp-11		186982
Zinc finger protein-76 (expressed in testis)		194549
B144 protein		109170
Preprogastricsin		169740
T-complex-associated-testis-expressed-1		186975
Oncogene PIM1		164960
Cyclin-dependent kinase inhibitor 1A (p21, Cip1)		116899
Meprin A, alpha		600388
Peroxisome proliferative activated receptor, delta		600409
Epilepsy, juvenile myoclonic-1		254770
Guanylate cyclase activator 1 (guanylin 1, retina)		600364
Polycystic kidney and hepatic disease-1 (autosomal recessive)		263200
Platelet-activating factor acetylhydrolase		601690
Rhesus blood group-associated glycoprotein		180297
Retinal degeneration, slow (peripherin)		179605
Core-binding factor, runt domain, alpha subunit 1		600211
Cleidocranial dysplasia		119600
Cyclin D3		123834
Glucagon-like peptide 1 receptor		138032
High-mobility group (nonhistone chromosomal) protein isoforms I and Y		600701
Methylmalonyl Coenzyme A mutase		251000
Neurotrophic tyrosine kinase, receptor, type 4		601312
Superkiller viralicidic activity 2 (S. cerevisiae homolog)-like		600478
T-cell transcription factor EB		600744
Zinc finger protein 165		600834
Testis-specific protein TPX-1		187430
Glutathione S-transferase A1		138359
Glutathione S-transferase A2		138360
Dystonia musculorum of mouse, human homolog of		600088
Glutamate-cysteine ligase (gamma-glutamylcysteine synthetase),	catalytic (	230450
Heterogeneous nuclear ribonucleoprotein polypeptide G		164022
Transcription factor AP-2 beta (activating enhancer-binding protein	2 beta)	601601
Vascular endothelial growth factor		192240
Heat shock 90kD protein 1, beta		140572
Primase polypeptide 2A (58kD)		176636

Primase polypeptide 2B (58kD)		600741
Bullous pemphigoid antigen 1		113810
Kirsten rat sarcoma-1 viral (v-Ki-ras1) oncogene homolog, processed	pseudogen	190110
Corticosterone side-chain isomerase		122550
Immotile cilia syndrome-1		242650
Nystagmus-2, autosomal dominant		164100
Pelviureteric junction obstruction		143400
Stargardt disease 3 (autosomal dominant)		600110
Mixed polyposis syndrome, hereditary		601228
Progressive bifocal choricoretinal atrophy		600790
Malic enzyme, cytoplasmic		154250
Phosphoglucomutase-3		172100
DNA segment, single copy, expressed, probe COLYA1		120165
Diazepam-binding inhibitor		125950
Collagen IX, alpha-1 polypeptide		120210
5-hydroxytryptamine (serotonin) receptor-1B		182131
Ocular albinism, autosomal recessive		203310
Cannabinoid receptor		114610
5-hydroxytryptamine (serotonin) receptor 1E		182132
Membrane component, chromosome 6, polypeptide 2 (identified by	monoclona	155960
Sialic acid storage disease		269920
Trophoblast glycoprotein		190920
Macular dystrophy, retinal, 1 (North Carolina type)		136550
Gamma-aminobutyric acid (GABA) A receptor, rho-1		137161
Gamma-aminobutyric acid (GABA) A receptor, rho-2		137162
5' nucleotidase (CD73)		129190
POU domain, class 3, transcription factor 2		600494
Banded krait minor satellite DNA-1		109780
Cyclin C		123838
CD24 antigen		600074
Epithelial discoidin domain receptor 1		600452
FYN oncogene related to SRC, FGR, YES		137025
Insulin-dependent diabetes mellitus 15		601666
Laminin, alpha 4		600133
S-adenosylmethionine decarboxylase-1		180980
G protein-coupled receptor 6		600553
Collagen, type X, alpha-1 polypeptide		120110
Gap junction protein, alpha-1, 43kD (connexin 43)		121014
Neuromedin B receptor		162341
Chorionic gonadotropin, alpha polypeptide		118850
Susceptibility to lysis by alloreactive natural killer cells		272370
Male germ cell-associated kinase		154235
Avian myeloblastosis viral (v-myb) oncogene homolog		189990
Prolyl endopeptidase		600400

Avian UR2 sarcoma virus oncogene (v-ros) homolog 1		165020
Laminin, alpha 2 (merosin)		156225
Phosphodiesterase I/nucleotide pyrophosphatase 1 (homologous to mouse	Ly-41 antig	173335
Diabetes mellitus, transient neonatal		601410
Phospholamban		172405
Myristoylated alanine-rich protein kinase C substrate (MARCKS,	80K-L)	177061
Hereditary persistence of fetal hemoglobin, heterocellular		142470
Deafness, autosomal nonsyndromic sensorineural, 10		601316
Protein-L-isoaspartate (D-aspartate) O-methyltransferase		176851
Arginase, liver		207800
Human immunodeficiency virus type I enhancer-binding protein-2		143054
Immune interferon, receptor for		107470
Myoclonus epilepsy, Lafora type		254780
Connective tissue growth factor		121009
Utrophin (homologous to dystrophin)		128240
Opioid receptor, mu 1		600018
Insulin-dependent diabetes mellitus-5		600320
Oncogene MAS1		165180
Retinal cone dystrophy-1		180020
Villin-2 (cytovillin)		123900
Insulin-dependent diabetes mellitus 8		600883
Fucosidase, alpha-L- 2, plasma		136820
Estrogen receptor		133430
Superoxide dismutase-2, mitochondrial		147460
Acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A	thiolase)	100678
Heterogeneous nuclear ribonucleoprotein H'		601036
T-complex locus TCP-1		186980
Insulin-like growth factor-2 receptor (mannose-6-phosphate receptor,	cation-ind	147280
Plasminogen		173350
Ovarian cancer, serous		167000
Vasoactive intestinal peptide		192320
Apolipoprotein Lp(a)		152200
Myeloid/lymphoid or mixed-lineage leukemia, translocated to, 4		159559
Programmed cell death 2		600866
Brachyury (mouse) homolog		601397
TATA box binding protein		600075
T-complex-associated-testis-expressed-3		186977
Thrombospondin 2		188061
T-complex 10 (a murine tcp homolog)		187020
Adenosine deaminase complexing protein-1		102710
Baboon M7 virus replication		109180
Bone morphogenetic protein-5		112265
Bone morphogenetic protein-6		112266
Collagen, type XII, alpha 1-like		120321

UDP-GlcNAc:dolichyl-phosphate N-acetylglucosaminephosphotransferase		191350
F9 embryonic antigen		137010
Glutamate receptor, ionotropic, kainate 2		138244
Lymphokine-activated killer cell ligand		153435
Monkey RBC receptor		158050
P blood group globoside		111400
Pancreatic beta cell, agenesis of		600089
Temperature sensitivity complementation, cell cycle specific,	ts546 cells	187330
Vg-related sequence		193010
Protein kinase, cAMP-dependent, regulatory, type I, beta		176911
Gamma-glutamylcyclotransferase		137170
Calmodulin-like 1		114181
Zinc finger protein-12 (KOX3)		194536
RAS-like protein A; Simian leukemia viral (v-ral) oncogene homolog	A (ras-rela	179550
ETS variant gene 1		600541
Islet cell autoantigen 1 (69kD)		147625
JTV1 gene		600859
MutT (E. coli) human homolog (8-oxo-7,8-dihydroguanosine	triphospha	600312
Platelet-derived growth factor, alpha polypeptide		173430
Postmeiotic segregation increased (S. cerevisiae)-like 2		600259
Replication protein A3 (14kD)		179837
Mesenchyme homeo box 2		600535
Craniosynostosis, type I		123100
Aryl hydrocarbon receptor		600253
Interleukin-6 (interferon, beta-2)		147620
Transcription factor TWIST		601622
Macular dystrophy, dominant cystoid		153880
Blepharophimosis, epicanthus inversus, and ptosis 2		601649
Phosphoserine phosphatase		172480
Neuropeptide Y		162640
Retinitis pigmentosa-9		180104
Heterogeneous nuclear ribonucleoprotein A2/B1		600124
Deafness, autosomal dominant 5		600994
Glycyl-tRNA synthetase		600287
Avian myelocytomatosis viral (v-myc) oncogene homolog like 1		164865
Sp4 transcription factor		600540
Growth hormone releasing hormone receptor		139191
HOMEO BOX A CLUSTER		
Homeo box-A1		142955
Homeo box-A3		142954
Homeo box-A4		142953
Homeo box-A5		142952
Homeo box-A6		142951
Homeo box-A7		142950

Homeo box-A9		142956
Homeo box-A10		142957
Homeo box-A11		142958
Homeo box-A13		142959
Even-skipped homeo box-1 (homolog of Drosophila)		142996
T-cell antigen receptor, gamma polypeptide		186970
Glucokinase (hexokinase-4)		138079
Inhibin, beta-1		147290
Actin, beta		102630
Wilms tumor suppressor locus		601583
Endogenous retroviral sequence-3 (includes zinc finger protein H-plk)		131170
Adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1		102981
Aquaporin 1 (channel-forming integral protein, 28kD)		107776
Charcot-Marie-Tooth disease, neuronal type, D		601472
Amphiphysin		600418
Oxoglutarate dehydrogenase (lipoamide)		203740
Acyloxyacyl hydrolase (neutrophil)		102593
Insulin-like growth factor-binding protein-1		146730
Insulin-like growth factor-binding protein-3		146732
Biliverdin reductase A		109750
GLI-Kruppel family member GLI3 (oncogene GLI3)		165240
Adenylate cyclase-1 (brain)		103072
Phosphoglycerate mutase, muscle form		261670
Peptidylprolyl isomerase A (cyclophilin A)		123840
Oncomodulin		164795
Malate dehydrogenase, mitochondrial		154100
Epidermal growth factor receptor		131550
T-cell tumor invasion and metastasis-1 (invasion-metastasis of	neoplasms	147830
Phosphorylase kinase, gamma 1 (muscle)		172470
Oncogene ARAF2		164710
Oncogene PKS1		165010
DOPA decarboxylase (aromatic L-amino acid decarboxylase)		107930
Goldenhar syndrome		141400
Spinal muscular atrophy, distal, with upper limb predominance		600794
Transcription factor 6-like 1 (mitochondrial transcription factor	1-like)	157670
Argininosuccinate lyase		207900
Hyperreflexia		145290
Nuclear factor erythroid-2, ubiquitous (p18)		600197
Phenylthiocarbamide taste		171200
CD36 antigen (collagen type I)		173510
Elastin		130160
Cytochrome P-450 reductase		124015
S-phase kinase-associated protein 1A (p19A)		601434
Zinc finger protein-117		194624

Cerebral cavernous malformations 1		116860
Ectrodactyly, ectodermal dysplasia, cleft lip/palate		129900
GA-binding protein transcription factor, beta subunit 1 (53kD)		600610
LIM domain kinase 1		601329
Neutrophil cytosolic factor-1 (47kD)		233700
Protein tyrosine phosphatase, non-receptor type 12		600079
Replication factor C (activator 1) 2 (40kD)		600404
Zellweger syndrome-1		214100
Erythropoietin		133170
Guanine nucleotide-binding protein (G protein), alpha-inhibiting	activity po	139310
Calcium channel, L type, alpha 2 polypeptide		114204
Tachykinin 2 (substance K; neurokinin A, neurokinin 2, neuromedin L,	neuropept	162320
Zinc finger protein 36 (KOX 18)		601260
Zinc finger protein 38 (KOX 25)		601261
Guanine nucleotide-binding protein, beta polypeptide-2		139390
Asparagine synthetase		108370
Hepatic growth factor		142409
P-glycoprotein-1/multiple drug resistance-1		171050
P-glycoprotein-3/multiple drug resistance-3		171060
Sorcin (class 4 gene)		182520
Glucuronidase, beta-		253220
Split hand/foot malformation (ectrodactyly) type 1		183600
Calcitonin receptor		114131
Procollagen C-endopeptidase enhancer		600270
Plasminogen activator inhibitor, type I		173360
Deleted in split-hand/split-foot 1 region		601285
Minichromosome maintenance deficient (S. cerevisiae) 2		600592
Pentraxin II		600750
Acetylcholinesterase (YT blood group)		100740
Cut (Drosophila)-like 1		116896
Distal-less homeo box-5		600028
Distal-less homeo box 6		600030
Histone IIa		142720
Histone IIb		142760
Mucin 3, intestinal		158371
Paraoxonase		168820
Protein kinase, cAMP-dependent, regulatory, type II, beta		176912
Reelin		600514
Tissue factor pathway inhibitor-2		600033
Down-regulated in adenoma		126650
Kinase-like protein		148750
Neutrophil migration (granulocyte glycoprotein)		162820
Paired box homeotic gene-4		167413
Alpha-2-glycoprotein, zinc		194460

Collagen, type I, alpha-2 polypeptide		120160
Cytochrome P450, subfamily IIIA (nifedipine oxidase) polypeptide 4		124010
Cardiomyopathy, hypertrophic 6		600858
Deafness, autosomal recessive 4		600791
Oncogene MET		164860
Pendred syndrome		274600
Sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida	binding)	600930
Wingless-type MMTV integration site 2, human homolog		147870
Amiloride-binding protein-1		104610
Dihydrolipoamide dehydrogenase (E3 component of pyruvate dehydrogenase	complex, 2	246900
2,3-bisphosphoglycerate mutase		222800
Retinitis pigmentosa-10 (autosomal dominant)		180105
Ornithine decarboxylase pseudogene		165650
Neuronal cell adhesion molecule		601581
Laminin, beta 1		150240
Cystic fibrosis transmembrane conductance regulator		219700
Capping protein (actin filament) muscle Z-line, alpha 2		601571
Leptin (murine obesity homolog)		164160
Protein tyrosine phosphatase, receptor-type, zeta polypeptide		176891
Blue cone pigment		190900
IMP (inosine monophosphate) dehydrogenase 1		146690
Mesoderm specific transcript (mouse) homolog		601029
Nuclear respiratory factor 1		600879
Filamin-2 (actin-binding protein-280)		102565
EPH tyrosine kinase/erythropoietin producing hepatoma amplified	sequence	179610
Prolactin-inducible protein		176720
Carboxypeptidase A		114850
Protease, serine, 1 (trypsin 1)		276000
Smith-Lemli-Opitz syndrome		270400
Caldesmon-1		114213
Kell blood group		110900
Pleiotrophin (heparin binding growth factor 8, neurite	growth-pro	162095
Oncogene TIM		600888
Murine sarcoma viral (v-raf) oncogene homolog B1		164757
Single-stranded DNA-binding protein		600439
Thromboxane A synthase 1 (platelet)		274180
Aldehyde reductase-1 (low Km aldose reductase)		103880
Chloride channel-1, skeletal muscle		118425
Pancreatitis, hereditary		167800
T-cell antigen receptor, beta polypeptide		186930
Cholinergic receptor, muscarinic, 2		118493
Minisatellite 33.15		157570
Long (electrocardiographic) QT syndrome-2		152427
Solute carrier family 4, anion exchanger, member 2 (erythrocyte	membrane	109280

Cyclin-dependent kinase 5		123831
Engrailed-2		131310
Holoprosencephaly-3		142945
Hereditary persistence of fetal hemoglobin, heterocellular, Indian	type	142335
Nitric oxide synthase 3 (endothelial cell)		163729
Ras homolog enriched in brain 2		601293
Sacral agenesis, autosomal dominant (Currarino triad)		176450
Sonic hedgehog (Drosophila) homolog		600725
Triphalangeal thumb-polysyndactyly syndrome		190605
5-hydroxytryptamine (serotonin) receptor-5A		601305
X-ray repair, complementing defective, repair in Chinese hamster	cells 2	600375
Diaphorase-2		125870
Dipeptidylpeptidase VI		126141
Epimorphin		132350
Farnesylpyrophosphate synthetase-2		134632
Growth rate controlling factor-1		139220
Hepatoma transmembrane kinase		600011
Nonhistone chromosomal protein-2		118880
Polymerase (DNA directed), delta 2, regulatory subunit (50kD)		600815
Ubiquitin-conjugating enzyme E2H (homologous to yeast UBC8)		601082
Uridine phosphorylase		191730
Zona pellucida glycoprotein-3A (sperm receptor)		182889
Zona pellucida glycoprotein-3B (sperm receptor)		195002
Epilepsy, progressive, with mental retardation		600143
Defensin 5, Paneth cell-specific		600472
Defensin 6, Paneth cell-specific		600471
Coagulation factor VII regulator		134450
Arylamine N-acetyltransferase-1		108345
Arylamine N-acetyltransferase-2		243400
Farnesyl-diphosphate farnesyltransferase 1		184420
GATA-binding protein 4		600576
Cryptidin-related sequence-1C		123555
Defensin-1 (myeloid-related sequence)		125220
BLK nonreceptor tyrosine kinase		191305
Cathepsin B		116810
Lipoprotein lipase		238600
Macrophage scavenger receptor		153622
Putative prostate cancer tumor suppressor		601385
Pericentriolar material 1		600299
Focal adhesion kinase 2		601212
Heregulin, alpha (45kD, ERBB2 p185-activator)		142445
Farnesyltransferase, CAAX box, alpha		134635
solute carrier family 18 (vesicular monoamine), member 1		193002
Erythrocyte membrane protein band 49 (dematin)		125305

Glutathione reductase		138300
Gulonolactone (L-) oxidase pseudogene		240400
Adrenergic, alpha-1C-, receptor		104221
Bone morphogenetic protein-1		112264
Neurofilament, light polypeptide		162280
Prepronociceptin		601459
Pulmonary surfactant apoprotein-2 (SP-C)		178620
Clusterin (complement lysis inhibitor, SP-40,40; sulfated glycoprotein	2; testoste	185430
Epoxide hydrolase 2, cytoplasmic		132811
General transcription factor IIE, polypeptide 2 (beta subunit, 34kD)		189964
Luteinizing hormone releasing hormone	(gonadotro	152760
Plasminogen activator, tissue type		173370
Adrenergic, beta-3-, receptor		109691
G protein-coupled receptor 9		600894
Protein phosphatase-2 (formerly 2A), catalytic subunit, beta isoform		176916
Werner syndrome		277700
Indoleamine 2,3-dioxygenase		147435
Calbindin 1 (28kD)		114050
Murine leukemia virus, amphotropic, receptor for		158378
Spastic paraplegia 5A (autosomal recessive)		270800
Ankyrin-1, erythrocytic		182900
Cholinergic receptor, nicotinic, beta polypeptide-3		118508
Polymerase (DNA directed), beta		174760
Steroidogenic acute regulatory protein		600617
CCAAT/enhancer-binding protein (C/EBP), delta		116898
Fibroblast growth factor receptor-1 (fms-related tyrosine kinase-2)		136350
Monocytic leukemia zinc finger protein		601408
Retinitis pigmentosa-1		180100
Chondrocalcinosis 2		600668
Epilepsy, benign neonatal-2 (benign familial neonatal convulsions)		121201
Glycerol phosphatase, beta-		109640
Hyperradiosensitivity of murine SCID mutation, complementing-1		202500
Oncogene MOS, Moloney murine sarcoma virus		190060
Carbonic anhydrase VIII		114815
Cytochrome P450, subfamily VII (cholesterol 7-alpha-monooxygenase)		118455
Opiate receptor, kappa 1		165196
Salivary gland pleomorphic adenoma		181030
Interleukin-7		146660
Corticotropin releasing hormone		122560
GTP-binding protein overexpressed in skeletal muscle		600164
Charcot-Marie-Tooth neuropathy-4A (autosomal recessive)		214400
Phosphodiesterase 7A		171885
Yamaguchi sarcoma viral (v-yes-1) related oncogene homolog		165120
Tocopherol (alpha) transfer protein		600415

Eyes absent, drosophila, human homolog of, 1		601653
NADH-ubiquinone oxidoreductase, B22 subunit		601445
Temperature sensitive complementation, cell cycle specific, tsBN51		187280
Cytochrome P450, subfamily XIB, polypeptide-1; 11-beta-hydroxylase;	corticoster	202010
Cytochrome P450, subfamily XIB, polypeptide-2		124080
Peroxisomal membrane protein-3 (35kD)		170993
Glycine auxotroph B, complementation of hamster		138480
Peripheral myelin protein-2		170715
CARBONIC ANHYDRASE CLUSTER		
Carbonic anhydrase I		114800
Carbonic anhydrase II		259730
Carbonic anhydrase III		114750
Core-binding factor, alpha subunit 2; translocated to, 1; cyclin	D-related	133435
Avian myeloblastosis viral (v-myb) oncogene homolog like-1		159405
Outer dense fiber of sperm tails 1		182878
Cohen syndrome 1		216550
Heparan sulfate proteoglycan, fibroblast cell surface-associated		142460
segmentation syndrome 1 (Klippel-Feil syndrome with laryngeal	malformati	148900
Src-like-adapter		601099
Thyrotropin-releasing hormone receptor		188545
Undulin (fibronectin-tenascin-related)		600479
Proenkephalin		131330
Syntrophin, beta 1 (dystrophin-associated protein A1, 59kD, basic	basic comp	600026
Epidermolysis bullosa simplex-1 (Ogna)		131950
Epilespy, generalized, idiopathic		600669
Glutamic-pyruvate transaminase (alanine aminotransferase)		138200
Herediatry motor and sensory neuropathy, Lom type		601455
Human papillomavirus type 18 integration site-1		167959
Plectin		601282
Oncogene PVT-1 (MYC activator)		165140
Retinoic acid induced gene E		601384
Macular dystrophy, atypical vitelliform		153840
Zinc finger protein-7 (KOX4)		194531
Zinc finger protein 16 (KOX 9)		601262
Phospholipase A2-like		601658
PTK2 protein tyrosine kinase		600500
Nephroblastoma overexpressed gene		164958
Phosphodiesterase I/nucleotide pyrophosphatase 2		601060
Exostoses (multiple) 1		133700
Langer-Giedion syndrome chromosome region		150230
Trichorhinophalangeal syndrome, type I		190350
Avian myelocytomatosis viral (v-myc) oncogene homolog		190080
Zinc finger protein-34 (KOX32)		194526
Adenylyl cyclase-8 (brain)		103070

Thyroglobulin		188450
Cytochrome c1		123980
GLI-Kruppel family member GLI4 (oncogene HKR4)		165280
Glutamate receptor, ionotropic, N-methyl		138251
Cholinergic receptor, nicotinic, alpha polypeptide-2		118502
Defensin 4, corticostatin		601157
Glycine receptor, alpha 3		600421
Full-length endogenous retroviral sequence-2		136870
protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform	(calcineur	114107
Ribosomal protein L30		180467
Rothmund-Thomson syndrome		268400
Ubiquinone-binding protein		191330
Zinc finger protein-1		194490
ZFY-related autosomal sequence		154230
Relaxin, H1		179730
Relaxin, H2		179740
Valosin-containing protein		601023
Nuclear factor I/B		600728
High-affinity glutamate transporter EAAC1		133550
Insulin-like 4 (placenta)		600910
Janus kinase 2 (a protein-tyrosine kinase)		147796
Oncogene OVC (ovarian adenocarcinoma oncogene)		164759
Very low density lipoprotein receptor		192977
Adenylate kinase-3, mitochondrial		103030
SNF2 (sucrose nonfermenting, yeast, homolog)-like 2		600014
Tyrosinase-related protein 1		115501
Glycine dehydrogenase (decarboxylating; glycine decarboxylase, glycine	cleavage s	238300
Interferon, alpha 1		147660
Interferon, alpha 2		147562
Interferon, alpha 4		147564
Interferon, alpha 5		147565
Interferon, alpha 6		147566
Interferon, alpha 7		147567
Interferon, alpha 8		147568
Interferon, alpha 10		147577
Interferon, alpha 13		147578
Interferon, alpha 14		147579
Interferon, alpha 16		147580
Interferon, alpha 17		147583
Interferon, alpha 21		147584
Myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila)	homolog),	159558
Lymphomatous acute lymphoblastic leukemia		247640
Aconitase, soluble		100880
Cyclin-dependent kinase inhibitor 2A (p16, inhibits CDK4)		600160

Cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)		600431
ELAV (embryonic lethal, abnormal vision, Drosophila)-like 2		601673
Interferon, beta-1, fibroblast		147640
Trichoepithelioma, multiple familial		601606
Methylthioadenosine phosphorylase		156540
Ribosomal protein S6		180460
TEK tyrosine kinase, endothelial		600221
Natriuretic peptide receptor B/guanylate cyclase B		108961
Mitochondrial RNA-processing endoribonuclease		157660
Arthrogryposis multiplex congenita, distal, type 1		108120
Aldehyde dehydrogenase-5		100670
Aquaporin-3		600170
Cartilage-hair hypoplasia		250250
Ciliary neurotrophic factor receptor		118946
Galactose-1-phosphate uridyltransferase		230400
Glycoprotein-4-beta-galactosyltransferase-2 (EC 2.4.1.22)		137060
Interleukin 11 receptor, alpha		600939
Paired box homeotic gene-5 (B-cell lineage specific activator	protein)	167414
Tropomyosin 2 (beta)		190990
BCL2-associated athanogene		601497
SHB adaptor protein (a Src homology 2 protein)		600314
Phosphoglucomutase 5		600981
Melkersson-Rosenthal syndrome		155900
Forkhead (Drosophila)-like 9		601092
Inclusion body myopathy, autosomal recessive		601073
CD72 antigen		107272
Talin		186745
Venous malformations, multiple cutaneous and mucosal		600195
Folylpolyglutamate synthetase		136510
Protein tyrosine phosphatase, receptor type, delta polypeptide		601598
Annexin I (lipocortin I)		151690
Cytoplasmic membrane DNA		126330
Cardiomyopathy, familial dilated 1B		600884
Protein kinase, cAMP-dependent, catalytic, gamma		176893
Deafness, autosomal recessive 7		600974
Friedreich ataxia		229300
Aldehyde dehydrogenase-1, soluble		100640
Glucosaminyl (N-acetyl) transferase 1, core 2	(beta-1,6-N	600391
Glucosaminyl (N-acetyl) transferase 2, I-branching enzyme		600429
Guanine nucleotide binding protein (G protein), q		600998
Isoleucine-tRNA synthetase		600709
Collagen, type XV, alpha-1 polypeptide		120325
Cathepsin L		116880
Growth arrest-specific gene-1		139185

Heterogeneous nuclear ribonucleoprotein K		600712
Aldolase B, fructose-bisphosphatase		229600
Chondrosarcoma, extraskeletal myxoid, fused to EWS in		600542
Hydroxysteroid (17-beta) dehydrogenase 3		264300
Spleen tyrosine kinase		600085
ATP-binding cassette 1		600046
Neurotrophic tyrosine kinase, receptor, type 2		600456
Hereditary sensory neuropathy, type 1		162400
Fructose-bisphosphatase 1		229700
Tropomodulin		190930
Fanconi anemia, complementation group C		227645
Patched (drosophila) homolog		601309
Epithelioma, self-healing, squamous 1, Ferguson-Smith type		132800
Nevoid basal cell carcinoma syndrome		109400
T-cell acute lymphocytic leukemia-2		186855
Thioredoxin		187700
Dysautonomia (Riley-Day syndrome, hereditary sensory autonomic	neuropathy	223900
Fukuyama type congenital muscular dystrophy		253800
Amyloid beta (A4) precursor protein-like-1		104740
Receptor tyrosine kinase MuSK		601296
Acrofacial dysostosis, Nager type		154400
Alpha-1-microglobulin/bikunin precursor; inter-alpha-trypsin	inhibitor, I	176870
Prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and	cyclooxyge	176805
Dystonia-1, torsion (autosomal dominant)		128100
\'Whirler' deafness, human homolog of		193675
Fushi tarazu factor (Drosophila) homolog 1		184757
Hexabrachion (tenascin)		187380
Glycoprotein, alpha-galactosyltransferase-1		104175
Pre-B-cell leukemia transcription factor-3		176312
Sarcosine dehydrogenase		268900
Spectrin, alpha, nonerythrocytic-1 (alpha-fodrin)		182810
Transforming growth factor, beta receptor I (activin A receptor type	II-like kina	190181
Hypomelanosis of Ito		146150
Pregnancy-associated plasma protein A		176385
ATP-binding cassette 2		600047
ABO blood group		110300
Aminolevulinate, delta-, dehydratase		125270
Argininosuccinate synthetase		215700
Complement component-8, gamma polypeptide		120930
Calcium channel, L type, alpha 1 polypeptide, isoform 5		601012
Dopamine-beta-hydroxylase		223360
Glucose-regulated protein		138120
Gelsolin		137350
Lipocalin 1 (protein migrating faster than albumin, tear prealbumin)		151675

Lipocalin 2 (oncogene 24p3)		600181
Progestagen-associated endometrial protein (placental protein 14)		173310
Protein phosphatase 2A, regulatory subunit B' (PR 53)		600756
RING3-like gene (open reading frame X)		601541
Ribosomal protein L7a (surfeit-3)		185640
SET gene		600960
Surfeit-1		185620
Surfeit-2		185630
Surfeit-4		185660
Surfeit-5		185641
Tuberous sclerosis-1		191100
Surfeit-6		185642
Vav 2 oncogene		600428
Zinc finger protein-79 (pT7)		194552
Abelson murine leukemia viral (v-abl) oncogene homolog 1		189980
Adenylate kinase-1		103000
Complement component-5		120900
Carnitine acetyltransferase		600184
CAIN gene		114350
Death-associated protein kinase-1		600831
Endonuclease G		600440
Endoglin		131195
Erythrocyte membrane protein band 7.2 (stomatin)		185000
Nuclear cap binding protein, 80kD		600469
Nail-patella syndrome		161200
Xeroderma pigmentosum, complementation group A		278700
Axonal transport of synaptic vesicles		601255
Orosomucoid-1 (alpha-1-acid glycoprotein-1)		138600
Orosomucoid-2		138610
Collagen V, alpha-1 polypeptide		120215
Ehlers-Danlos syndrome, type II		130010
Prostaglandin D2 synthase (21kD, brain)		176803
Carboxyl-ester lipase (bile-salt stimulated lipase)		114840
Carboxyl ester lipase-like (bile-salt stimulated lipase-like)		114841
Guanine nucleotide-releasing factor 2 (specific for crk	proto-onco	600303
Glutamate receptor, ionotropic, N-methyl D-aspartate 1		138249
LIM/homeodomain protein LHX3		600577
Notch (Drosophila) homolog 1 (translocation-associated)		190198
Retinoid X receptor, alpha		180245
Cysteine conjugate-beta lyase; cytoplasmic (glutamine transaminase K,	kyneurenin	600547
Ficolin (collagen/fibrinogen domain-containing) 1		601252
Temperature sensitivity complementation, H142		187290
Immunoglobulin epsilon heavy chain pseudogene		147210
Iron-responsive element-binding protein-1		147581

Proprotein convertase subtilisin/kexin type 5		600488
Valyl-tRNA synthetase		192150
Calmodulin-like-3		114184
Refsum disease, adult, with increased pipecolicacidemia		600964
Prostate adenocarcinoma-1		601188
Phosphofructokinase, platelet type		171840
Inter-alpha (globulin) inhibitor, H2 polypeptide		146640
Protein kinase C, theta		600448
Chlordecone reductase		600451
Dihydrodiol dehydrogenase 1 (trans-1,2-dihydrobenzene-1,2-diol	dehydroge	600449
Dihydrodiol dehydrogenase 2 (trans-1,2-dihydrobenzene-1,2-diol	dehydroge	600450
Interleukin-2 receptor		147730
Interleukin 15 receptor, alpha		601070
DiGeorge syndrome chromosome region-2		601362
Oncogene BMI-1		164831
Mannose receptor, C type 1		153618
Vimentin		193060
Megaloblastic anemia 1		261100
cAMP-responsive element modulator		123812
Glioblastoma multiforme		137800
Glutamate decarboxylase-2 (pancreas)		138275
Integrin, beta-1 (fibronectin receptor, beta polypeptide; antigen	CD29 incl	135630
Transcription factor-8 (represses interleukin-2 expression)		189909
Zinc finger protein-25 (KOX 19)		194528
Epilepsy, partial		600512
Excision repair cross complementing rodent repair deficiency,	complemer	133540
DNA segment, single copy, probe pH4 (transforming sequence, thyroid-1,	from papill	188550
Tachykinin 2 receptor (substance K receptor; neurokinin 2 receptor)		162321
Adenosine kinase		102750
Stromal cell-derived factor 1		600835
Inorganic pyrophosphatase		179030
Choline acetyltransferase		118490
Microseminoprotein, beta		157145
Protein kinase, cGMP-dependent, regulatory, type I, beta		176894
Retinol-binding protein-3, interstitial		180290
RET transforming sequence; oncogene RET		164761
Solute carrier family 18 (vesicular acetylcholine), member 3		600336
Zinc finger protein-11a (KOX 2)		194521
Zinc finger protein-11b (KOX 2)		194522
Zinc finger protein-22 (KOX15)		194529
Mannose-binding lectin, soluble (opsonic defect)		154545
G protein-coupled receptor 7		600730
Heterogeneous nuclear ribonucleoprotein F		601037
Ankyrin 3, node of Ranvier		600465

Transcription factor 6-like 2 (mitochondrial transcription factor	like-1)	600438
Protein phosphatase 3 (formerly 2B), catalytic subunit, beta isoform	(calcineuri	114106
Protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD),	alpha isofo	601302
Cardiomyopathy, dilated 1C (autosomal dominant)		601493
5-hydroxytryptamine (serotonin) receptor 7 (adenylate cyclase-coupled)		182137
Cell division cycle 2, G1 to S and G2 to M		116940
Annexin VII (synexin)		186360
KROX-20, Drosophila, homolog (early growth response-2)		129010
DNA Segment, single copy, expressed probes hGT.1,hML7	(Graves di	139080
Procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline	4-hydroxyl	176710
Collagen XIII, alpha-1 polypeptide		120350
Dimerization cofactor of hepatic nuclear factor 1-alpha (TCF1)		126090
Hexokinase-1		142600
Methionine adenosyltransferase I/III		250850
Perforin		170280
Multiple hamartoma (Cowden syndrome)		158350
Pulmonary surfactant protein A-II		178642
Actin, alpha-2, smooth muscle, aorta		102620
Proteoglycan, secretory granule (platelet proteoglycan protein core)		177040
Prosaposin (sphingolipid activator protein-1)		176801
Vinculin		193065
Pulmonary surfactant-associated protein, 35kD		178630
Retinal G protein coupled receptor		600342
Terminal deoxynucleotidyltransferase		187410
Interferon, alpha-inducible protein (MW 56kD)		147690
Interferon, alpha-inducible protein (MW 54kD)		147040
Zinc finger protein-32 (KOX30)		194539
Insulin-degrading enzyme		146680
Hermansky-Pudlak syndrome		203300
Glutamate dehydrogenase-1		138130
Phosphatase and tensin homolog (mutated in multiple advanced cancers	1)	601728
Surfactant associated protein-4		178635
Spinocerebellar ataxia 8		271245
Progressive external ophthalmoplegia, type 1		157640
Homeo box-11 (T-cell leukemia-3 associated breakpoint, homologous to	Drosophila	186770
Nuclear factor of kappa light chain gene enhancer in B-cells 2	(p49/p100)	164012
Phosphodiesterase 6C, cGMP-specific, cone, alpha prime		600827
Plasminogen activator, urokinase		191840
Retinol-binding protein-4, interstitial		180250
Wingless-type MMTV integration site 8B, human homolog		601396
Lipase A, lysosomal acid, cholesterol esterase		278000
Split hand/foot malformation (ectrodactyly) type 3		600095
Adrenergic, alpha-2A-, receptor		104210
Adrenergic, beta-1-, receptor		109630

G protein-coupled receptor kinase 5		600870
Apoptosis (APO-1) antigen 1		134637
Kinesin-like-1		148760
Cytochrome P450, subfamily IIC; mephenytoin 4'-hydroxylase		124020
Glutamic-oxaloacetic transaminase-1, soluble (EC 2.6.1.1)		138180
Collagen, type XVII, alpha 1 polypeptide		113811
Cytochrome P450, subfamily XVII; steroid 17-alpha-hydroxylase		202110
Pyrroline-5-carboxlate synthetase		138250
Cytochrome P450, subfamily IIE (ethanol-inducible)		124040
MAX-interacting protein 1		600020
Paired box homeotic gene-2		167409
Solute carrier family 18 (vesicular monoamine), member 2		193001
Acyl-Coenzyme A dehydrogenase, short/branched chain		600301
Fibroblast growth factor-8		600483
Proliferation-related Ki-67 antigen		176741
Homeo box (H6 family) 2		600647
Uroporphyrinogen III synthase		263700
Phosphoglycerate mutase A, nonmuscle form		172250
G protein-coupled receptor 10		600895
Adenosine A2 receptor-like		102777
Fibroblast growth factor receptor-2 (bacteria-expressed kinase)		176943
Methylguanine-DNA methyltransferase		156569
Ornithine aminotransferase		258870
Ornithine aminotransferase-like 3		165635
Protein tyrosine phosphatase, receptor-type, epsilon		600926
Empty spiracles (Drosophila) homolog 2		600035
Pancreatic lipase		246600
Downstream of CRK, 180kDa		601403
Inositol trisphosphate-5-phosphatase, 40kD		600106
Arachidonate 5-lipoxygenase		152390
ATP synthase, H+ transporting (ATPase, mitochondrial)		164360
Polykaryocytosis inducer		174750
Hepatic protein 10		142390
External membrane protein-130		133710
Proline(-) auxotroph, complementation of		176770
Ras suppressor protein 1		179555
slowpoke (Drosophila) homolog (potassium channel, calcium-activated)		600150
Tumor progression locus-2		191195
Beckwith-Wiedemann syndrome		130650
Adenosine monophosphate deaminase 3 (isoform E)		102772
CD44 antigen (homing function)		107269
Ribosomal protein S17		180472
T-cell activation antigen p250		186710
Cysteinyl-tRNA synthetase		123859

Cyclin-dependent kinase inhibitor 1C (p57, Kip2)		600856
Cathepsin D (lysosomal aspartyl protease)		116840
DNA segment, single copy, expressed, probe H19 (adult skeletal	muscle ger	103280
Dopamine receptor D4		126452
HRAS1-related cluster-1		143023
Insulin-dependent diabetes mellitus-2		125852
L23 mitochondrial-related protein		600789
Red blood cell antigen MER2		179620
Mucin 2, intestinal/tracheal		158370
Mucin 5, subtypes A and C, tracheobronchial/gastric		158373
NON-ALPHA GLOBIN CLUSTER		
Hemoglobin beta		141900
Hemoglobin delta		142000
Hemoglobin, gamma, regulator of		142270
Hemoglobin, gamma A		142200
Hemoglobin, gamma G		142250
Hemoglobin epsilon		142100
Harvey rat sarcoma viral (v-Ha-ras) oncogene homolog		190020
Insulin-like growth factor-2, or somatomedin A		147470
Insulin		176730
Keratin, hair cuticle, ultrahigh-sulfur, 1-like		148022
Long (electrocardiographic) QT syndrome-1; Ward-Romano syndrome		192500
Lymphocyte-specific protein pp52		153432
Multiple tumor associated chromosome region-1		194071
Nucleosome assembly protein 2-like		601651
Rhabdomyosarcoma, embryonal		268210
Placental ribonuclease inhibitor		173320
Ribonucleotide reductase, M1 polypeptide		180410
Sjogren syndrome antigen A1 (52kD, ribonucleoprotein autoantigen	SS-A/Ro)	109092
Tyrosine hydroxylase		191290
ras homolog gene family, member G (rho G)		179505
Cholecystokinin B receptor		118445
Hemopexin		142290
Mucin 6, gastric		158374
Lactate dehydrogenase C		150150
TATA box binding protein (TBP)-associated factor, RNA polymerase II,	H, 30kD	600475
Lactate dehydrogenase A		150000
Myogenic factor-3		159970
Sphingomyelin phosphodiesterase-1, acid lysosomal		257200
Parathyroid hormone		168450
wee1+ (S. pombe) human homolog		193525
Tryptophan hydroxylase (tryptophan-5-monooxygenase)		191060
Calcitonin/calcitonin-related polypeptide, alpha		114130
Calcitonin-related polypeptide, beta		114160

Protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)		176879
Tumor susceptibility gene 101		601387
Potassium channel, inward rectifying, BIR subunit (beta-cell	inward rect	600937
LIM domain only 4 (cardiac LIM protein)		600824
Serum amyloid A1		104750
Serum amyloid A2		104751
Serum amyloid A4, constitutive		104752
Sulfonylurea receptor		600509
Usher syndrome-1C (autosomal recessive, severe)		276904
General transcription factor IIH, polypeptide 1 (62kD subunit)		189972
Persistent hyperinsulinemic hypoglycemia of infancy (nesidioblastosis)		256450
Atrophia areata		108985
ADP-ribosyltransferase 1		601625
Potassium voltage-gated channel, Shaw-related subfamily, member 1		176258
LIM domain only 1 (rhombotin 1)		186921
Mucin 5, subtype B, tracheobronchial		600770
Nucleoporin, 98kD		601021
Suppression of tumorigenicity-5		140750
Suppression of tumorigenicity-2		185440
Heat shock 90kD protein, alpha-like 3		140575
Potassium voltage-gated channel, shaker-related subfamily, member 8	(rapidly ina	176269
Hepatitis B virus integration site-1		114550
Brain-derived neurotrophic factor		113505
Catalase		115500
CD59 antigen (p18-20)		107271
Follicle-stimulating hormone, beta polypeptide		136530
LIM domain only 2 (rhombotin-like 1)		180385
Membrane component, chromosome 11, surface marker 1		601178
Antigen identified by monoclonal antibody 16.3A5		143065
Paired box homeotic gene-6		106210
Recombination activating gene-1		179615
Recombination activating gene-2		179616
T-cell leukemia/lymphoma-2		151390
Wilms tumor-1		194070
Proteasome (prosome, macropain) 26S subunit, ATPase, 3		186852
Solute carrier family 1 (glial high affinity glutamate transporter),	member 2	600300
Prostatic cancer, metastasis of		176807
CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal	and antibo	151540
Oncogene SPI1		165170
Cholinergic receptor, muscarinic, 4		118495
Foramina parietalia permagna (Catlin marks)		168500
Acid phosphatase 2, lysosomal		171650
Damage-specific DNA binding protein 2 (48kD)		600811
Exostoses (multiple) 2		133701

Acrosomal vesicle protein-1		102525
Midkine (neurite growth-promoting factor 2)		162096
Myosin-binding protein C, cardiac		600958
Kangai 1 (suppression of tumorigenicity 6, prostate)		600623
Tyrosinase-like		191270
Receptor-associated protein of the synapse, 43kD		601592
Spinocerebellar ataxia 5		600224
Coagulation factor II (thrombin)		176930
Lutheran inhibitor, dominant (monoclonal antibody A3D8)		111150
Synaptotagmin 5		600782
Target of antiproliferative antibody-1		186845
Adrenergic, beta, receptor kinase-1		109635
Carnitine palmitoyltransferase I		600528
Jacobsen syndrome		147791
Antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and	T43	158070
Catenin (cadherin-associated protein), delta		601045
Transcobalamin I		189905
Complement component-1 inhibitor		106100
Uteroglobin		192020
AHNAK nucleoprotein (desmoyokin)		103390
Flap structure-specific endonuclease 1		600393
Angiotensin receptor-like 1		600052
Damage-specific DNA binding protein 1 (127kD)		600045
ELKL motif kinase		600526
IgE responsiveness (atopic)		147050
Cholinergic receptor, muscarinic, 1		118510
Ferritin, heavy polypeptide 1		134770
Osteoporosis pseudoglioma syndrome		259770
v-rel avian reticuloendotheliosis viral oncogene homolog A (nuclear	factor of k	164014
Osteoporosis-pseudoglioma syndrome		259770
Oxysterol-binding protein		167040
Fibronectin-like-2		135610
Ciliary neurotrophic factor		118945
Deafness, autosomal dominant 11		601317
Arrestin, beta 1		107940
Bardet-Biedl syndrome 1		209901
Cyclin D1		168461
CD5 antigen (p56-62)		153340
CD20 antigen		112210
Cofilin 1 (non-muscle)		601442
Cytochrome c oxidase, subunit VIII		123870
ems1 sequence (mammary tumor and squamous cell carcinoma-associated	(p80/85 src	164765
Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV)		134690
Fc fragment of IgE, high affinity I, receptor for, beta polypeptide		147138

Fibroblast growth factor-4 (heparin secretory transforming protein-1;	Kaposi sar	164980
Fibroblast growth factor-3 (oncogene INT2)		164950
FOS-like antigen-1		136515
Glutathione S-transferase pi		138370
Insulin-dependent diabetes mellitus 4		600319
Multiple endocrine neoplasia, type I (menin)		131100
NADH dehydrogenase (ubiquinone) flavoprotein 1 (51kD)		161015
Nuclear mitotic apparatus protein-1		164009
Pepsinogen A3		169710
Pepsinogen A4		169720
Pepsinogen A5		169730
Phospholipase C, beta 3 (phosphatidylinositol-specific)		600230
Protein phosphatase-1, alpha polypeptide		176875
Phosphorylase, glycogen, muscle		232600
Hartnup disorder		234500
Rod outer segment membrane protein-1		180721
RT6 antigen (rat) homolog		180840
Oncogene SEA (S13 avian erythroblastosis)		165110
Somatotrophinoma		102200
Suppression of tumorigenicity-3 (tumor-suppressor gene, HELA cell	type)	191181
ubi-d4/requiem (mouse) homolog		601671
Uncoupling protein-2		601693
Vitelliform macular dystrophy (Best disease)		153700
Vascular endothelial growth factor B		601398
Vitreoretinopathy, neovascular inflammatory		193235
Zinc-finger protein 162		601516
Actinin, alpha-3		102574
Esterase-A4		133220
Exudative vitreoretinopathy-1 (autosomal dominant; Criswick-Schepens	syndrome)	133780
Neutral alpha-glucosidase AB		104160
Antigen defined by monoclonal antibody 5.1H11		107240
Paraganglioma or familial glomus tumors 2		168000
FK506-binding protein-2 (13kD)		186946
Mixed lineage kinase 3		600050
Immunoglobulin mu binding protein 2		600502
B-cell CLL/lymphoma-1		151400
Zinc finger protein-126 (HZF-2)		194633
Folate receptor-1 (adult)		136430
Folate receptor-2 (fetal)		136425
Galanin		137035
RNA, U15a small nucleolar		600455
Ribosomal protein S3		600454
Pyruvate carboxylase		266150
Potassium voltage-gated channel, shaker-related subfamily, member 4		176266

Olfactory marker protein		164340
Collagen-binding protein 2 (colligen 2)		600943
Deafness, autosomal recessive 2		600060
Keratin, hair cuticle, ultrahigh-sulfur, 1		148021
Myosin VIIA		276903
DNA segment, single copy, expressed, probe pDB98		137207
Purinergic receptor P2Y, G-protein coupled, 2		600041
Folate hydrolase (prostate-specific membrane antigen)		600934
Cerebellar ataxia-1		213200
Tyrosinase		203100
Fucosyltransferase 4 (alpha (1,3) fucosyltransferase,	myeloid-sp	104230
Meiotic recombination (S. cerevisiae) 11 homolog		600814
Guanylate cyclase 1, soluble, alpha 2		601244
Matrix metalloproteinase 7 (matrilysin, uterine)		178990
Matrix metalloproteinase 8 (neutrophil collagenase)		120355
Melatonin receptor 1B		600804
Ferredoxin-1 (adrenodoxin)		103260
Progesterone receptor		264080
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase)		601235
Glutamate receptor, ionotropic, AMPA 4		138246
Matrix metalloproteinase 1 (interstitial collagenase)		120353
Vasopressin-activated calcium-mobilizing receptor-1		601741
Anal canal carcinoma		105580
Sodium channel, voltage-gated, type II, beta polypeptide		601327
Interleukin-1, beta convertase (caspase-1)		147678
Ataxia-telangiectasia mutated (includes complementation groups A, C	and D)	208900
Glutamate receptor, ionotropic, kainate 4		600282
Matrix metalloproteinase 13 (collagenase 3)		600108
NPAT gene		601448
Matrix metalloproteinase 10 (stromelysin 2)		185260
Acetyl-Coenzyme A acetyltransferase (acetoacetyl Coenzyme A thiolase)		203750
Crystallin, alpha B		123590
6-pyruvoyltetrahydropterin synthase		261640
APOLIPOPROTEIN CLUSTER I		
Apolipoprotein A-I		107680
Apolipoprotein C-III		107720
Apolipoprotein A-IV		107690
Breast cancer, 11;22 translocation associated		600048
CD3D antigen, delta polypeptide (TiT3 complex)		186790
CD3E antigen, epsilon polypeptide (TiT3 complex)		186830
CD3G antigen, gamma polypeptide (TiT3 complex)		186740
Charcot-Marie-Tooth neuropathy 4B		601382
Dopamine receptor, D2		126450
Inositol polyphosphate phosphatase-like 1		600829

Myeloid/lymphoid, or mixed-lineage leukemia; trithorax (Drosophila)	homolog	159555
Matrix metalloproteinase 3 (stromelysin 1, progelatinase)		185250
Radixin		179410
Thrombocytopenia, Paris-Trousseau type (deletion 11q23 syndrome)		188025
Integral transmembrane protein 1		601134
Poliovirus receptor related 1		600644
Signal recognition particle receptor		182180
Amyloid beta (A4) precursor-like protein 2		104776
Epstein-Barr virus modification site-1		132860
Neural cell adhesion molecule		116930
Nicotinamide N-methyltransferase		600008
Promyelocytic leukemia zinc finger		176797
Porphyria, acute, Chester type		176010
POU domain, class 2, associating factor 1		601206
5-hydroxytryptamine (serotonin) receptor 3		182139
Zinc finger protein-123 (HZF-1)		194630
Zinc finger protein-125 (HZF-3)		194632
Archain 1		600820
Cas-Br-M ectropic retroviral transforming sequence (Oncogene CBL2)		165360
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 6 (RNA helicase, 54kD)		600326
Avian erythroblastosis virus E26 (v-ets) oncogene homolog-1		164720
Hydroxymethylbilane synthase		176000
Interleukin 10 receptor		146933
Ribosomal protein S25		180564
Thy-1 T-cell antigen		188230
Heat shock 70kD protein 8 (HSP73)		600816
Friend leukemia virus integration 1		193067
potassium inwardly-rectifying channel, subfamily J, member 1		600359
Potassium inwardly-rectifying channel, subfamily J, member 5		600734
Nuclear factor related to kappa B-binding protein		164013
Adrenomedullin		103275
Calpain, large polypeptide L1		114220
CD6 antigen		186720
CD57 antigen (LEU7)		151290
Endogenous retroviral sequence, truncated 2 (band T2, 21.0kb)		190950
Full-length endogenous retroviral sequence-1		136840
Gastric intrinsic factor		261000
Opioid-binding protein/cell adhesion molecule-like		600632
Protein tyrosine phosphatase IVA2		601585
Sialyltransferase-4 (CMP-N-acetylneuraminate: [beta-galactosidase	alpha-2,3])	104240
Zinc-finger protein 75C		601474
CD4 antigen (p55)		186940
Branched chain aminotransferase-1		113520
Lymphocyte activation gene-3		153337

Dentatorubro-pallidoluysian atrophy		125370
Glyceraldehyde-3-phosphate dehydrogenase		138400
Calcium channel, isoform 1, alpha-1 polypeptide (cardiac muscle)		114205
Solute carrier family 2 (facilitated glucose transporter), member 3		138170
Coagulation factor VIII VWF (von Willebrand factor)		193400
Alpha-2-macroglobulin		103950
Acrocallosal syndrome		200990
SALIVARY PROLINE-RICH PROTEIN COMPLEX		
Proline-rich protein BstNI, subfamily-1		180989
Proline-rich protein BstNI, subfamily-2 (parotid size variant)		168810
Proline-rich protein BstNI, subfamily-3 (parotid salivary	glycoprotei	168840
Proline-rich protein BstNI, subfamily-4		180990
Proline-rich protein HaeIII, subfamily-1		168730
Proline-rich protein HaeIII, subfamily-2		168790
Parotid proline-rich salivary protein Pc		168710
Tumor necrosis factor receptor-1 (55kD)		191190
Clathrin-associated/assembly/adaptor protein, small 3 (22kD)		601507
Inflammatory bowel disease-2		601458
Apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1		600130
Microfibril-associated glycoprotein-2		601103
Complement component-1, r subcomponent		216950
Complement component-1, s subcomponent		120580
Cyclin D2		123833
CD9 antigen (p24)		143030
CD27 antigen		186711
Cyclin-dependent kinase inhibitor 1B (p27, Kip1)		600778
Chl1-related helicase gene-2		601151
Enolase-2, gamma, neuronal		131360
ets variant gene 6 (TEL oncogene)		600618
Fibroblast growth factor-6		134921
Guanine nucleotide-binding protein, beta polypeptide-3		139130
Ubiquitin isopeptidase T		601447
Potassium voltage-gated channel, shaker-related subfamily, member 1		176260
Potassium voltage-gated channel, shaker-related subfamily, member 5		176267
Potassium voltage-gated channel, shaker-related subfamily, member 6		176257
Mannose-6-phosphate receptor, cation-dependent		154540
Myeloid leukemia factor-2		601401
Malignant proliferation, eosinophil		131440
Nucleolar protein 1 (120kD)		164031
Neurotrophin-3		162660
Protein tyrosine phosphatase, non-receptor type, 6		176883
Peroxisome receptor 1		600414
Rhombotin-like 2		180386
Sodium channel, nonvoltage-gated 1, alpha		600228

Tumor necrosis factor C receptor (lymphotoxin-beta receptor)		600979
Triosephosphate isomerase-1		190450
Pregnancy zone protein		176420
RAD52, yeast, human homolog of		600392
CD69 antigen (p60, early T-cell activation antigen)		107273
Protein tyrosine phosphatase, receptor-type, O		600579
ATP synthase, H+ transporting, mitochondrial F1 complex, beta	polypeptid	102910
Islet amyloid polypeptide (diabetes-associated peptide; amylin)		147940
Glycogen synthase-2 (liver)		138571
Lactate dehydrogenase B		150100
Hypertension with brachydactyly		112410
Kirsten rat sarcoma-2 viral (v-Ki-ras2) oncogene homolog		190070
Parathyroid hormone-like hormone		168470
Sialyltransferase 8 (alpha-N-acetylneuraminate:	alpha-2,8-s	601123
Glutamate receptor, ionotropic, N-methyl D-aspartate 2B		138252
Guanylate cyclase 2C (heat stable enterotoxin receptor)		601330
S-phase kinase-associated protein 1B (p19B)		601435
RecQ protein-like (DNA helicase Q1-like)		600537
Potassium inwardly-rectifying channel, subfamily J, member 8		600935
Kirsten-ras associated gene		601599
Keratin-4		123940
Chl1-related helicase gene-1		601150
Retinoblastoma-binding protein 2		180202
Inositol 1,4,5-triphosphate receptor, type 2		600144
Citrate synthase, mitochondrial		118950
Aromatic alpha-keto acid reductase		107920
Matrix Gla protein		154870
Antigen identified by monoclonal antibody BB1		185595
Synaptobrevin-1		185880
Synaptotagmin-1		185605
Contactin 1		600016
Integrin, alpha-5 (fibronectin receptor, alpha subunit; very late	activation	135620
Keratin-1		139350
Keratin-2A		600194
Keratin-5		148040
Palmoplantar keratoderma, Bothnia type		600231
Activin A receptor, type II-like kinase 1		601284
H1 histone, family 4		142220
Adenylate cyclase 6		600294
CD63 antigen (melanoma 1 antigen)		155740
Keratin-3		148043
Peripherin		170710
Testis enhanced gene transcript		600748
Wingless-type MMTV integration site 1 (oncogene INT1)		164820

Keratin-6A		148041
Keritin 7		148059
Vitamin D (1,25-dihydroxyvitamin D3) receptor		277440
Achalasia-addisonianism-alacrimia syndrome		231550
Anti-Mullerian hormone receptor		600956
Aquaporin 2 (collecting duct)		107777
Aquaporin 2-like, kidney specific		601383
Aquaporin 5		600442
Activating transcription factor 1		123803
Cyclin-dependent kinase 2		116953
Elastase-1		130120
Transformation gene ERBB-3		190151
Fragile X mental retardation, autosomal homolog		600819
Nuclear protein N10, growth factor inducible		139139
HOMEO BOX C CLUSTER		
Homeo box-C4		142974
Homeo box-C5		142973
Homeo box-C6		142972
Homeo box-C8		142970
Homeo box-C9		142971
Homeo box-C12		142975
Homeo box-C13		142976
Human papillomavirus type 18 integration site-2		167960
Integrin, alpha 7		600536
Keratin-18		148070
Lactalbumin, alpha		149750
Major intrinsic protein of lens fiber		154050
Monilethrix		158000
Nuclear factor, erythroid-derived 2, 45kD		601490
Natural resistance-associated macrophage protein 2		600523
Retinoic acid receptor, gamma polypeptide		180190
Sodium channel, voltage gated, type VIII, alpha polypeptide		600702
Serine hydroxymethyltransferase		138450
Transcription factor CP2, alpha globin		189889
Zipper (leucine) protein kinase		600447
Melanocyte protein mel 17		155550
GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 1		601444
Glutathione S-transferase pi-like		138335
Polyadenylate-binding protein-1		173865
Sarcoma amplified sequence		181035
Myosin IA		601478
Enuresis, nocturnal, 2		600808
Tachykinin 3 (neuromedin K, neurokinin B)		162330
Zinc finger protein-10 (KOX 1)		194538

Hematopoietic protein-1		141180
Heterogeneous nuclear ribonucleoprotein A1		164017
Inhibin, beta C		601233
Sp1 transcription factor		189906
DNA-damage-inducible transcript-3		126337
Low density lipoprotein-related protein-1 (alpha-2-macroglobulin	receptor)	107770
Collagen, type II, alpha-1 polypeptide		120140
Integrin, beta-7		147559
Glioma-associated oncogene homolog (zinc finger protein)		165220
Fibrosis of the extraocular muscles, congenital		135700
Diacylglycerol kinase, alpha (80kD)		125855
Phosphofructokinase, muscle type		232800
Scapuloperoneal syndrome, myopathic type		181430
Cyclin-dependent kinase 4		123829
N-acetylglucosamine-6-sulfatase		252940
Interferon, gamma		147570
Pseudo-vitamin D dependency rickets 1		264700
RAS-related protein RAP1B		179530
Mouse double minute 2, human homolog of; p53-binding protein		164785
Lipoma (breakpoint in benign lipoma)		151900
Carboxypeptidase M		114860
High mobility group protein HMGI-C		600698
Protein-tyrosine phosphatase, receptor-type, beta polypeptide		176882
Cornea plana 2 (autosomal recessive)		217300
Dermatan sulphate proteoglycan 3		601657
Myogenic factor-6		159991
Peptidase B		169900
ATPase, Ca++ transporting, plasma membrane, 1		108731
Lumican		600616
B-cell translocation gene 1, anti-proliferative		109580
Leukotriene A4 hydrolase		151570
Male germ cell tumor		273300
Mast cell growth factor		184745
Neural precursor cell expressed, developmentally down-regulated 1		600372
Thymopoietin		188380
Zinc finger protein-144 (Mel-18)		600346
Achaete-scute complex (Drosophila) homolog-like 1		100790
Histidine ammonia-lyase (histidase)		235800
Transcription factor NF-Y, B subunit		189904
Insulin-like growth factor-1, or somatomedin C		147440
Acyl-Coenzyme A dehydrogenase, C-2 to C-3 short chain		201470
Noonan syndrome 1		163950
Decorin		125255
ELK3, ETS-domain protein (SRF accessory protein 2)		600247

Phosphate carrier, mitochondrial		600370
Clathrin, light polypeptide (Lca)		118960
Epidermal growth factor receptor pathway substrate 8		600206
Epidermal growth factor receptor pathway substrate 8		600206
Pro-melanin-concentrating hormone		176795
ATPase, Ca++ dependent, slow-twitch, cardiac muscle-2		108740
Darier disease (keratosis follicularis)		124200
Nascent-polypeptide-associated complex alpha polypeptide		601234
Phospholipase A2, group IB (pancreas)		172410
Ulnar mammary syndrome		181450
Myosin, light polypeptide-2, regulatory, cardiac, slow		160781
D-amino-acid oxidase		124050
Non-insulin-dependent diabetes mellitus (common, type 2) 2		601407
Ataxin-2		601517
Selectin P ligand		600738
Spinal muscular atrophy-4		158590
4-hydroxyphenylpyruvate dioxygenase		276710
Phenylalanine hydroxylase		261600
B-cell CLL/lymphoma 7		601406
Protein tyrosine phosphatase, non-receptor type 11		176876
T-box 3		601621
T-box 5		601620
Protein phosphatase 1, catalytic subunit, gamma isoform		176914
Scapuloperoneal spinal muscular atrophy, New England type		181405
Aldehyde dehydrogenase-2, mitochondrial		100650
Interferon production regulator factor (HNF1), albumin proximal factor		142410
Tumor rejection antigen-1 (gp96)		191175
Nitric oxide synthase 1, neuronal		163731
Replication factor C (activator 1) 5 (36.5kD)		600407
Non-histone chromosome protein 2 (S. cerevisiae)-like 1		601304
Polymerase (DNA directed), epsilon		174762
Ubiquitin C		191340
Restin (Reed-Steinberg cell expressed intermediate filament-associated	protein)	179838
Zinc finger protein-26 (KOX20)		194537
Endogenous retroviral sequence, truncated 3 (band T3, 17.8kb)		190960
Full-length endogenous retroviral sequence-3		136890
Guanine nucleotide-binding protein (G protein), alpha-inhibiting	activity pol	139180
Glycerol-3-phosphate dehydrogenase		138420
Glutathione S-transferase 12 (microsomal)		138330
Human immunodeficiency virus-1 expression		143055
Insulin-like growth factor-binding protein-6		146735
Keratin-6B		148042
Keratin-8		148060
Lysozyme		153450

Methioninyl-tRNA synthetase		156560
Mevalonate kinase		251170
Myosin-binding protein C, slow type		160794
Myogenic factor-5		159990
Natural killer cell lectin NKG2		161555
Neurotensin		162650
2',5'-oligoisoadenylate synthetase		164350
Phosphofructokinase X		171880
Tubulin, alpha-like-1		191120
Uracil-DNA glycosylase		191525
Ribosomal RNA-1		180450
Ectodermal dysplasia, hidrotic		129500
Deafness, autosomal dominant 3		601544
Fibroblast growth factor 9 (glia-activating factor)		600921
Gap junction protein, beta-2, 26kD (connexin 26)		121011
Gap junction protein, alpha-3, 46kD (connexin 46)		121015
Deafness, autosomal recessive 1		220290
fms-related tyrosine kinase 1 (vascular endothelial growth	factor/vasc	165070
fms-related tyrosine kinase-3		136351
G protein-coupled receptor 12		600752
High-mobility group (nonhistone chromosomal) protein 1		163905
Duchenne-like muscular dystrophy, autosomal recessive	(sarcoglyc	253700
probe hTg737 (polycystic kidney disease, autosomal recessive, in	mouse TG	600595
Insulin promoter factor 1, homeodomain transcription factor		600733
ATPase, Na+K+ transporting, alpha-1 polypeptide-like		182360
Moebius syndrome		157900
Amino acid transporter, cationic-1		104615
Breast cancer 2, early onset		600185
Caudal type homeo box transcription factor 3		600297
Replication factor C (activator 1) 3 (38kD)		600405
General transcription factor IIIA		600860
Casein kinase 1, alpha 1		600505
mab-21 (C. elegans)-like 1		601280
Enuresis, nocturnal, 1		600631
Disrupted in B-cell neoplasia		109543
Rieger syndrome, type 2		601499
X-ray sensitivity		194370
5-hydroxytryptamine (serotonin) receptor 2A		182135
Fork head (Drosophila) homolog 1 (rhabdomyosarcoma)		136533
Retinoblastoma-1		180200
Lymphocyte cytosolic protein-1 (plasmin)		153430
Carboxypeptidase B2 (plasma)		212070
Esterase D; S-formylglutathione hydrolase		133280
ATPase, Cu++ transporting, beta polypeptide		277900

POU domain, class 4, transcription factor 1		601632
Ceroid-lipofuscinosis, neuronal-5		256731
Endothelin receptor type B		131244
Tyrosinase-related protein 2		191275
Propionyl Coenzyme A carboxylase, alpha polypeptide		232000
Tripeptidyl peptidase II		190470
Excision-repair, complementing defective, in Chinese hamster,	number 5	133530
eph-related receptor tyrosine kinase ligand 5		600527
Solute carrier family 10 (sodium/bile acid cotransporter family),	member 2	601295
Hydrogen ion/peptide cotransporter, intestinal		600544
ATPase, H+, K+ transporting, beta		137217
Collagen IV, alpha-1 polypeptide		120130
Collagen IV, alpha-2 polypeptide		120090
Coagulation factor VII		227500
Coagulation factor X		227600
Fibroblast growth factor 14		601515
Growth arrest-specific 6		600441
Hyperornithinemia-hyperammonemia-homocitrullinemia syndrome		238970
Lysosome-associated membrane protein-1		153330
RAP2, member of RAS oncogene family (K-rev)		179540
Rhodopsin kinase		180381
Stargardt disease 2 (autosomal dominant)		153900
Breast cancer, ductal, suppressor-1		211410
Carboxypeptidase B2 (plasma)		212070
Endogenous retroviral sequence, truncated 5		190980
Ribosomal RNA-2		180451
Myopathy, distal 1		160500
Spastic paraplegia-3A		182600
YY1 transcription factor		600013
Angiogenin		105850
Defender against cell death 1		600243
Matrix metalloproteinase 14 (membrane-inserted)		600754
tRNA leucine-1		189932
tRNA proline-1		189930
tRNA proline-2		189931
tRNA threonine-2		189933
Phosphatidylinositol glycan, class H		600154
DNA segment, single copy, expressed probes AS321,321B1,DD6,CS1/CS2,	CS3/CS4 (	162080
Adenylate cyclase 4		600292
CCAAT/enhancer binding protein (C/EBP), epsilon		600749
Chymase-1, mast cell		118940
Cytotoxic T-lymphocyte-associated serine esterase-1 (cathepsin	G-like-1,	123910
Cathepsin G		116830
Cathepsin G-like 2 (protein h-CCPX, granzyme H)		116831

Ichthyosis congenita II, non-erythromatous lamellar ichthyosis		242300
Oxidase (cytochrome c) assembly 1-like		601066
T-cell antigen receptor, alpha polypeptide		186880
T-cell antigen receptor, delta polypeptide		186810
Transglutaminase-1 (K polypeptide epidermal type I, protein-glutamine	gamma-glu	190195
APEX nuclease		600205
Oculopharyngeal muscular dystrophy		164300
Apurinic/apyrimidinic (abasic) endonuclease		107748
Deafness, autosomal recessive 5		600792
Deafness, autosomal dominant-9		601369
Myosin, heavy polypeptide-6, cardiac muscle, alpha		160710
Myosin, heavy polypeptide-7, cardiac muscle, beta		160760
Paired box homeotic gene-9		167416
Forkhead (Drosophila)-like 1		164874
Forkhead (Drosophila)-like 2		600779
Nuclear factor of kappa light chain gene enhancer in B-cells inhibitor		164008
NK-2 (Drosophila) homolog A (thyroid nuclear factor)		600635
Somatostatin receptor-1		182451
Nucleoside phosphorylase		164050
Son of sevenless (Drosophila) homolog 2		601247
Neuroendocrine-specific protein		600865
Orthodenticle (Drosophila) homolog 2		600037
Phosphorylase, glycogen, liver		232700
Cyclin-dependent kinase inhibitor 3 (CDK2-associated dual	specificity	123832
CG-1 antigen		600381
Spectrin, beta, erythrocytic		182870
Butyrate response factor 1 (EGF-response factor 1)		601064
Bone morphogenetic protein-4		112262
Actinin, alpha-1		102575
GTP cyclohydrolase 1		600225
MAX protein		154950
Proteasome (prosome, macropain) subunit, alpha type, 3		600306
Arrhythmogenic right ventricular dysplasia-1		107970
Farnesyltransferase, CAAX box, beta		134636
Zinc finger protein-46 (KUP)		194541
5,10-methylenetetrahydrofolate dehydrogenase,	5,10-methy	172460
Transforming growth factor, beta-3		190230
Calmodulin 1 (phosphorylase kinase, delta)		114180
Placental growth factor, vascular endothelial growth factor-related	protein	601121
Ribonuclease-2 (eosinophil-derived neurotoxin)		131410
Ribonuclease-3 (eosinophil cationic protein)		131398
Cataract, anterior polar, 1		115650
Glutathione peroxidase 2 (gastrointestinal)		138319
Heat shock 70kD protein-2		140560

Alzheimer disease-3		104311
Dihydrolipoamide S-succinyltransferase (E2 component of	2-oxo-gluta	126063
FBJ murine osteosarcoma viral (v-fos) oncogene homolog (oncogene FOS)		164810
C. elegans ceh-10 homeo domain-containing homolog		142993
Ubiquitin conjugating enzyme L-UBC		600012
Insulin-dependent diabetes mellitus 11		601208
Machado-Joseph disease (spinocerebellar ataxia 3,	olivopontoc	109150
Mixed lineage kinase 1 (tyr and ser/thr specificity)		600136
cer-d4 (mouse) homolog		601672
Galactosylceraminidase		245200
Ovarian cancer G protein-coupled receptor, 1		601404
Thyroid-stimulating hormone receptor		275200
Chromogranin A, parathyroid secretory protein-1		118910
Creatine kinase, brain type		123280
Creatine kinase, ectopic expression		123270
Cystein-rich intestinal protein		123875
Dynein, cytoplasmic-like		600112
Interferon, alpha-inducible protein 27		600009
Situs inversus viscerum		270100
Usher syndrome-1A		276900
Alpha-1-antichymotrypsin		107280
Corticosteroid-binding globulin		122500
Goosecoid		138890
Protein C inhibitor (plasminogen activator inhibitor-3)		227300
Protease inhibitor (alpha-1-antitrypsin)		107400
T-cell lymphoma-1		186960
Bradykinin receptor B1		600337
Bradykinin receptor B2		113503
Murine thymoma viral (v-akt) oncogene homolog-1		164730
Bone marrow stromal cell antigen 1		600387
Oncogene ELK-2		165350
Heat shock 90kD protein, alpha-like 4		140576
Kinesin 2 (60-70kD)		600025
X-ray repair complementing defective repair in Chinese hamster cells 3		600675
Tryptophanyl-tRNA synthetase		191050
IMMUNOGLOBULIN HEAVY CHAIN GENE CLUSTER		
D (diversity) region of heavy chains		146910
Constant region of heavy chain of IgA1		146900
Constant region of heavy chain of IgA2		147000
Constant region of heavy chain of IgD		147170
Constant region of heavy chain of IgE		147180
Constant region of heavy chain of IgEP1		147160
Constant region of heavy chain of IgG1		147100
Constant region of heavy chain of IgG2		147110

Constant region of heavy chain of IgG3		147120
Constant region of heavy chain of IgG4		147130
J (joining) region of heavy chains		147010
Constant region of heavy chain of IgM		147020
Immunoglobulin heavy chain regulator		144120
Immunoglobin heavy polypeptide, variable region (many genes)		147070
Cofilin 2 (muscle)		601443
Cytochrome c oxidase, subunit VIIa, polypeptide-3 (liver)		123997
Esterase activator		133250
Endogenous retroviral sequence, truncated 1 (band T1, 26.0kb)		190940
Farnesylpyrophosphate synthetase-3		134633
Temperature sensitivity complementation, K12		187310
Lentil agglutinin-binding		151020
External membrane protein-195		133740
Mucopolysaccharidosis, type IIIC		252930
Purinergic receptor P2Y, G-protein coupled, 7		601531
Protease inhibitor 4 (kallistatin)		147935
Rod monochromacy		216900
Pancreatic ribonuclease		180440
Ribonuclease 4		601030
Ribosomal protein L36A		180469
Sine oculis homeobox (Drosophila) homolog 1		601205
Solute carrier family 10 (sodium/bile acid cotransporter family),	member 1	182396
Ribosomal RNA-3		180452
Prader-Willi syndrome chromosome region		176270
Immunoglobulin heavy chain diversity region-2		146990
Attached cell antigen 28.3.7		108990
Albright hereditary osteodystrophy-2		103581
Imprinted in Prader-Willi syndrome		601491
Hypomelanosis of Ito		146150
Mannosidase, alpha A, cytoplasmic		154580
Prader-Willi/Angelman region-1		600161
Prader-Willi/Angelman syndrome-5		600162
Ubiquitin protein ligase E3A		601623
Secretory granule, neuroendocrine protein-1; 7B2 protein		173120
Antigen identified by monoclonal antibody 30.2A8		107254
Human coronavirus sensitivity		122460
Spastic paraplegia 6		600363
Gamma-aminobutyric acid (GABA) A receptor, beta-3		137192
Gamma-aminobutyric acid (GABA) A receptor, alpha-5		137142
Gamma-aminobutyric acid (GABA) A receptor, gamma 3		600233
Oculocutaneous albinism II (pink-eye dilution (murine) homolog)		203200
Small nuclear ribonucleoprotein polypeptide N		182279
Tight junction protein 1 (zona occludens 1)		601009

Formin (limb deformity)		136535
Agenesis of corpus callosum and peripheral neuropathy (Andermann	syndrome)	218000
Beta-2-microglobulin regulator		109710
Fibroblast growth factor 7 (keratinocyte growth factor)		148180
Microtubule-associated protein 1A		600178
Actin, alpha, cardiac muscle		102540
Cholinergic receptor, nicotinic, alpha polypeptide 7		118511
Isovaleryl Coenzyme A dehydrogenase		243500
Ryanodine receptor-3		180903
Farnesyl diphosphate synthase-like 4 (farnesyl pyrophosphate	synthetase	134634
Inositol 1,4,5-trisphosphate 3-kinase A		147521
Creatine kinase, mitochondrial		123290
Erythrocyte surface protein band 4.2		177070
Sorbitol dehydrogenase		182500
Thrombospondin 1		188060
Microfibrillar-associated protein 1		600215
Cholesterol repressible protein 39B		118480
Deafness, autosomal dominant 8		601543
Solute carrier family 12 (sodium/potassium/chloride transporters),	member 1	600839
Recombination protein A (RAD51 homolog)		179617
Calpain, large polypeptide L3		114240
Leukocyte tyrosine kinase		151520
TYRO3 protein tyrosine kinase		600341
Congenital dyserythropoietic anemia, type III		105600
Myosin, heavy polypeptide-12 (myoxin)		160777
Transcription factor 12 (HTF4, helix-loop-helix transcription	factors-4)	600480
Annexin II (lipocortin I)		151740
Beta-2-microglobulin		109700
Histidine decarboxylase		142704
Myosin IC		601479
RAR-related orphan receptor A		600825
Lipase, hepatic		151670
Cytochrome P450, subfamily XIX (aromatization of androgens)		107910
Fibrillin-1		134797
G protein-coupled receptor 1		600239
Pyruvate kinase-3		179050
Promyelocytic leukemia, inducer of		102578
Signal recognition particle 14kD (homologous Alu RNA-binding protein)		600708
Transducin-like enhancer of split 3, homolog of Drosophila a E(spl)		600190
Tropomyosin 1 (alpha)		191010
Cytochrome P450, subfamily I (aromatic compound-inducible), member 1		108330
Meis1-related gene-1		601740
Cellular retinoic acid-binding protein 1		180230
Cytochrome P450, subfamily I (aromatic compound-inducible), member 2		124060

Mannosephosphate isomerase		154550
Neuromedin B		162340
Bardet-Biedl syndrome 4		600374
Putative human HLA class II associated protein I		600832
Cytochrome P450, subfamily XIA (cholesterol side chain cleavage)		118485
Hexosaminidase A (alpha polypeptide)		272800
c-src tyrosine kinase		124095
Electron transfer flavoprotein, alpha polypeptide		231680
Fumarylacetoacetase		276700
Cholinergic receptor, neuronal nicotinic, alpha polypeptide-3		118503
Cholinergic receptor, neuronal nicotinic, alpha polypeptide-5		118505
Cholinergic receptor, neuronal nicotinic, beta polypeptide-4		118509
Cathepsin H		116820
Lysyl oxidase-like		153456
Neurotrophic tyrosine kinase, receptor, type 3		191316
Thyroid hormone-binding protein, cytosolic (p58)		188555
Manosidase, alpha-, type II, isozyme X		600988
Alanyl (membrane) aminopeptidase (aminopeptidase N, aminopeptidase M,	microsoma	151530
Insulin-like growth factor-1 receptor		147370
Paired basic amino acid cleaving enzyme (furin membrane-associated	receptor pr	136950
Isocitrate dehydrogenase 3 (NAD+) alpha		601149
Cholinergic receptor, muscarinic-5		118496
Insulin-dependent diabetes mellitus 3		600318
MADS box transcription enhancer factor 2, polypeptide A (myocyte	enhancer f	600660
Paired basic amino acid cleaving system-4		167405
Retinaldehyde-binding protein-1 (cellular)		180090
Aggrecan-1 (chondroitin sulfate proteoglycan-1, large aggregating	proteoglyc	155760
Bloom syndrome		210900
Oncogene FES, feline sarcoma virus		190030
Isocitrate dehydrogenase, mitochondrial		147650
Transcription factor COUP 2 (chicken ovalbumin upstream promoter 2)		107773
Cell division cycle 2-like 2		116951
Collagen I, alpha, receptor		120340
Eukaryotic translation elongation factor 1, beta 1		130591
Neutral alpha-glucosidase C		104180
Galactokinase-2		137028
Iron-responsive element-binding protein-2		147582
ALPHA GLOBIN GENE CLUSTER		
Hemoglobin alpha-1		141800
Hemoglobin alpha-2		141850
Hemoglobin theta-1		142240
Hemoglobin, zeta		142310
Alpha-thalassemia/mental retardation syndrome, type 1		141750
N-methylpurine DNA glycosylase		156565

Phosphodiesterase-1B		171891
Zinc-finger protein 75A		601473
Polycystic kidney disease-1 (autosomal dominant)		601313
ERV1, yeast, human homolog of		600924
Cataract, congenital, with microphthalmia		156850
Cyclin F		600227
CREB binding protein		600140
Dodecenoyl-Coenzyme A delta isomerase (3,2 trans-enoyl-Coenzyme A	isomerase)	600305
Conserved gene telomeric to alpha globin cluster		600928
DNase I, lysosomal		125505
Heme oxygenase (decycling) 2		141251
IMP (inosine monophosphate) dehydrogenase-like 1		146692
Phosphoglycolate phosphatase		172280
Polycystic kidney disease, infantile severe, with tuberous sclerosis		600273
Sperm protamine P1		182880
Sperm protamine P2		182890
Somatostatin receptor 5		182455
Transition protein-2 (during histone to protamine replacement)		190232
Tuberous sclerosis-2 (tuberin)		191092
Ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9)		601661
Carbohydrate-deficient glycoprotein syndrome		212065
Excision-repair, complementing defective, in Chinese hamster,	number 4	133520
Xeroderma pigmentosum, complementation group F		278760
Myosin, heavy polypeptide-11, smooth muscle		160745
SA (rat hypertension-associated) homolog		145505
Crystallin, mu		123740
Uromodulin (uromucoid, Tamm-Horsfall glycoprotein)		191845
B-cell maturation factor		109545
G1 to S phase transition-1		139259
Multidrug resistance-associated protein-1		158343
Cerebellar degeneration-related antigen-2 (62kD)		117340
Glutamate receptor, ionotropic, N-methyl D-aspartate 2A		138253
Hydroxyacyl glutathione hydrolase; glyoxalase II		138760
Mediterranean fever, familial		249100
Sodium channel, nonvoltage-gated 1, beta		600760
Sodium channel, nonvoltage-gated 1, gamma		600761
Transcription factor AP-4 (activating enhancer-binding protein 4)		600743
Ceroid-lipofuscinosis, neuronal-3, juvenile (Batten disease)		204200
Interleukin-4 receptor		147781
Phosphorylase kinase, gamma 2 (testis)		172471
Sulfotransferase, phenol-preferring		171150
ATPase, Ca++ transporting, fast-twitch, 1		108730
Ubiquinol-cytochrome c reductase core protein II		191329
CD19 antigen		107265

Protease, serine, 8 (prostasin)		600823
Inflammatory bowel disease-1 (Crohn disease)		266600
Arthrocutaneouveal granulomatosis (Blau syndrome)		186580
Fusion gene in myxoid liposarcoma		137070
Integrin, alpha L (antigen CD11A (p180), lymphocyte	function-as	153370
Integrin, alpha M (complement component receptor-3, alpha; antigen	CD11B (p1	120980
Integrin, alpha X (antigen CD11C (p150), alpha polypeptide)		151510
Protein kinase C, beta 1 polypeptide		176970
Sodium-glucose transporter-2		182381
Solute carrier family 6 (neurotransmitter transporter, creatine),	member 1(	601294
Sialophorin (leukosialin)		182160
Sulfotransferase, monoamine-preferring		600641
Syntaxin 1B		601885
Retinoblastoma-binding protein 6		600938
Zinc finger protein-44 (KOX7)		194542
Cell adhesion regulator		116935
Wilms tumor-3		194090
Adenylate cyclase 7		600385
Cylindromatosis 1, turban tumor syndrome		132700
Phosphorylase kinase, beta polypeptide		172490
Townes-Brocks syndrome		107480
Noradrenaline transporter-1 (cocaine- and antidepressant-sensitive)		163970
Retinoblastoma-like 2		180203
Cyclic nucleotide gated channel (photoreceptor), cGMP gated 3	(gamma)-li	600724
Guanine nucleotide-binding protein (G protein), alpha-activating	activity	139311
Matrix metalloproteinase 2 (gelatinase A, 72kD type IV collagenase)		120360
Metallothionein 1A (functional)		156350
Metallothionein 1B (functional)		156349
Metallothionein 1E (functional)		156351
Metallothionein 1F (functional)		156352
Metallothionein 1G		156353
Metallothionein 1H		156354
Metallothionein 1I		156355
Metallothionein 1J		156356
Metallothionein 1K		156357
Metallothionein 1L		156358
Metallothionein 1X		156359
Metallothionein 2		156360
Metallothionein 3 (growth inhibitory factor (neurotrophic))		139255
Solute carrier family 12 (sodium/potassium/chloride transporters),	member 3	600968
Polymerase (RNA) II (DNA directed) polypeptide C (33kD)		180663
Carboxylesterase 1 (monocyte/macrophage serine esterase 1)		114835
Bardet-Biedl syndrome 2		209900
Cholesteryl ester transfer protein, plasma		118470

Glutamic-oxaloacetic transaminase-2, mitochondrial (EC 2.6.1.1)		138150
Carbonic anhydrase VII		114770
Alanyl-tRNA synthetase		601065
Core-binding factor, beta subunit		121360
Hydroxysteroid (11-beta) dehydrogenase 2		218030
Macular corneal dystrophy		217800
Ras-related associated with diabetes		179503
Zinc finger protein-19 (KOX12)		194525
Zinc finger protein-32 (KOX16)		194527
Golgi apparatus protein 1		600753
Avian musculoaponeurotic fibrosarcoma (MAF) protooncogene		177075
Syntrophin, beta 2 (dystrophin-associated protein A1, 59kD, basic	componen	601018
Aldolase A, fructose-bisphosphatase		103850
Cytochrome c oxidase, subunit IV		123864
Calbindin 2, (29kD, calretinin)		114051
Cadherin 1 (E-cadherin, uvomorulin)		192090
Cadherin 3 (P-cadherin)		114021
Cadherin 5		601120
Cataract, Marner type		116800
Chymotrypsin-like protease		118888
Diaphorase-4		125860
E2F transcription factor 4, p107/p130-binding		600659
Haptoglobin		140100
Haptoglobin-related locus		140210
Lecithin-cholesterol acyltransferase		245900
Proteosome subunit MECL1		176847
Putative serine kinase H1		177015
Spinocerebellar ataxia 4		600223
Solute carrier family 9 (sodium/hydrogen exchanger), isoform 5		600477
Tyrosine aminotransferase, cytosolic		276600
AT motif-binding factor 1		104155
Lysyl-tRNA synthetase		601421
Moloney leukemia virus-34 proviral integration homolog		157970
Chymotrypsinogen B		118890
Adenine phosphoribosyltransferase		102600
Cadherin 13, H-cadherin (heart)		601364
Cytochrome b-245, alpha polypeptide		233690
Forkhead (Drosophila)-like 5		601089
Phospholipase C, gamma 2 (phosphatidylyinositol-specific)		600220
Hydroxysteroid (17-beta) dehydrogenase 2		109685
Cadherin-14 (M-cadherin)		114019
Carbonic anhydrase V (mitochondrial)		114761
Membrane protein E16		600182
Dipeptidase-1, renal		179780

Fanconi anemia, complementation group A		227650
Galactosamine (N-acetyl)-6-sulfate sulfatase		253000
Melanocortin 1 receptor (alpha melanocyte-stimulating hormone	receptor)	155555
Augmenter of liver regeneration		601207
Cadherin 11 (OB-cadherin, osteoblast)		600023
Casein kinase-2, alpha-prime polypeptide		115442
Cystathionase		219500
Esterase-B3		133290
Growth rate controlling factor-2		139230
Glucocorticoid receptor-like 1		138060
Interferon production regulator		147573
Lipase B, lysosomal acid		247980
Syntrophin-like		600027
Nonhistone chromosomal protein-1		118870
Sulfotransferase, phenol-preferring 2		601292
Thymidine kinase, mitochondrial		188250
tRNA glycine-GCC-1		189911
Tryptase, alpha		191080
Tryptase, beta		191081
Vesicular stomatitis virus defective interfering	particle re	125260
Pigment epithelium-derived factor		172860
Aspartoacylase (aminoacylase-2)		271900
Enolase-3, beta, muscle		131370
Glycoprotein Ib, platelet, alpha polypeptide		231200
Alpha-2-plasmin inhibitor		262850
Synaptobrevin-2		185881
Zinc finger protein-3		194480
Active BCR-related gene		600365
Breast cancer-related regulator of TP53		113721
Avian sarcoma virus CT10 (v-crk) oncogene homolog		164762
Platelet-activating factor acetylhydrolase, gamma subunit		601545
Miller-Dieker syndrome chromosome region		247200
Olfactory receptor-1		164342
Profilin-1		176610
Phosphotidylinositol transfer protein		600174
Retinitis pigmentosa-13		600059
Replication protein A1 (70kD)		179835
tRNA lysine-1		189918
tRNA leucine-2		189920
tRNA glutamine-1		189919
Arachidonate 12-lipoxygenase		152391
Myosin, heavy polypeptide-1, skeletal muscle, adult		160730
Myosin, heavy polypeptide-2, skeletal muscle, adult		160740
Myosin, heavy polypeptide-3, skeletal muscle, embryonic		160720

Myosin, heavy polypeptide-4, skeletal muscle		160742
Myosin, heavy polypeptide-8, skeletal muscle, perinatal		160741
Polymerase (RNA) II (DNA directed) polypeptide A (220kD)		180660
Recoverin		179618
Tumor protein p53		191170
Medulloblastoma		155255
Nitric oxide synthase 2B		600719
Nitric oxide synthase 2C		600720
Arrestin, beta 2		107941
Cataract, anterior polar 2		601202
Guanylate cyclase 2D, membrane (retina-specific)		600179
Myosin, heavy polypeptide-10, non-muscle		160776
Solute carrier family 2 (facilitated glucose transporter), member 4		138190
SRY (sex-determining region Y)-box 20		601297
Asialoglycoprotein receptor-1		108360
Cone rod dystrophy 5		600977
Eukaryotic translation initiation factor 5A		600187
Sex hormone-binding globulin (androgen binding protein)		182205
Zinc finger protein-18 (KOX11)		194524
Zinc finger protein-29 (KOX26)		194535
Adenosine A2b receptor		600446
Lethal giant larvae (Drosophila) homolog		600966
Topoisomerase (DNA) III		601243
Ubiquitin B		191339
Cholinergic receptor, nicotinic, beta polypeptide-1 (muscle)		100710
Aldehyde dehydrogenase-3		100660
Flightless-1 (Drosophila), human homolog of		600362
Microfibrillar-associated protein 4		600596
Peripheral myelin protein-22		601097
RNA, U3 small nuclear		180710
SAPK/ERK kinase-1		601335
Serine hydroxymethyltransferase (soluble)		182144
Sjogren-Larsson syndrome		270200
Smith-Magenis syndrome chromosome region		182290
Sterol regulatory element binding transcription factor 1		184756
Acyl-Coenzyme A dehydrogenase, very long chain		201475
Deafness, autosomal recessive 3		600316
Actin, gamma-1		102560
Asialoglycoprotein receptor-2		108361
ATPase, Na+K+ transporting, beta-2 polypeptide		182331
Choroidal dystrophy, central areolar		215500
Cystinosis		219800
Retinal cone dystrophy 2		601251
Nitric oxide synthase 2A (inducible, hepatocytes)		163730

Aldolase C, fructose-bisphosphatase		103870
Transcription factor-2, hepatic; LF-B3; variant hepatic nuclear factor		189907
Receptor for HTLV-1 and HTLV-2		143090
Ribosomal protein S17B-like-2		180462
Psoriasis susceptibility 2		177900
Ribosomal protein L19		180466
Vitronectin (serum spreading factor, somatomedin B, complement	S-protein)	193190
Cataract, congenital, zonular, with sutural opacities		600881
Membrane component, chromosome 17, surface marker 1 (35kD protein	identified	131560
Small inducible cytokine A3		182283
T-cell specific protein p288		187010
Clathrin, heavy polypeptide (Hc)		118955
Cytochrome b-561		600019
Integrin, beta-4		147557
Crystallin, beta A1		123610
Solute carrier family 6 (neurotransmitter transporter, serotonin),	member 4	182138
Ecotropic viral integration site 2A		158380
Ecotropic viral integration site 2B		158381
New CC chemokine NCC-1		601391
New CC chemokine NCC-2		601392
New CC chemokine NCC-3		601393
New CC chemokine NCC-4		601394
Neurofibromatosis, type 1 (neurofibromatosis, von Recklinghausen	disease, W	162200
Oligodendrocyte-myelin glycoprotein		164345
Small inducible cytokine A3-like 1		601395
Suppressor of Ty (S.cerevisiae) 6 homolog		601333
Oncogene ERBA1 (avian erythroblastic leukemia virus)		190120
Clathrin-associated/assembly/adaptor protein, large, beta 1		601025
Colony-stimulating factor-3 (granulocyte)		138970
Small inducible cytokine A2 (monocyte chemotactic protein, homologous	to mouse S	158105
Small inducible cytokine A5 (RANTES)		187011
Small inducible cytokine A7		158106
Malignant hyperthermia susceptibility 2		154275
Neurogenic differentiation 2		601725
Retinoic acid receptor, alpha polypeptide		180240
ADP-ribosylation factor 4-like		600732
Discs, large (Drosophila) homolog 2		600723
avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 2	(neuro/gli	164870
Estradiol 17-beta-dehydrogenase-1		109684
Insulin-like growth factor-binding protein-4		146733
Keratin-9		144200
Keratin-14		148066
Keratin-16		148067
Keratin-17		148069

Pancreatic polypeptide		167780
Waldner blood group		112010
Wilms tumor-4		601363
Epstein-Barr virus induced gene 1 (lymphocyte-specific G	protein-cou	600242
Adhalin		600119
Corticotropin releasing hormone receptor 1		122561
Parathymosin		168440
Cell division cycle 27		116946
Acetyl-Coenzyme A carboxylase		200350
Breast cancer-1, early onset		113705
2', 3' cyclic nucleotide 3' phosphohydrolase		123830
Ets variant gene 4 (E1A enhancer-binding protein, E1AF)		600711
Dual specificity phosphatase 3 (vaccinia virus phosphatase	VH1-relate	600183
Fibroblast growth factor 11		601514
Glucose-6-phosphatase		232200
Gastrin		137250
Glial fibrillary acidic protein		137780
Interferon-induced protein 35		600735
Junction plakoglobin		173325
microtubule-associated protein tau		157140
Mox1 (murine) homolog, diverged homeobox		600147
N-acetylglucosaminidase, alpha-		252920
Prohibitin		176705
Parkinsonism-dementia with pallidopontonigral degeneration		168610
GTP-binding protein Rho7		601555
Vacuolar proton pump-1 (116kD subunit)		192130
Wingless-type MMTV integration site-3, human homolog		165330
Adenovirus-12 chromosome modification site-17		102970
Calcium channel, L-type, beta-1 polypeptide		114207
Disinhibition-dementia-Parkinsonism-amyotrophy complex		600274
Diego blood group		110500
HOMEO BOX B CLUSTER		
Homeo box-B1		142968
Homeo box-B2		142967
Homeo box-B3		142966
Homeo box-B4		142965
Homeo box-B5		142960
Homeo box-B6		142961
Homeo box-B7		142962
Homeo box-B8		142963
Homeo box-B9		142964
Keratin-10		148080
Keratin-13		148065
Keratin-15, basic or beta-		148030

Nerve growth factor receptor		162010
Phenylethanolamine N-methyltransferase		171190
RNA, U2 small nuclear		180690
SHC (Src homology 2 domain-containing) transforming protein-like 1		600739
Solute carrier family 4, anion exchanger, member 1 (erythrocyte	membrane	109270
Symphalangism 1 (proximal)		185800
Topoisomerase (DNA) II, alpha (170kD)		126430
Small inducible cytokine A4 (homologous to mouse Mip-1b)		182284
Meckel syndrome		249000
ATP citrate lyase		108728
Membrane component, chromosome 17, surface marker 2 (ovarian	carcinoma	166945
G protein-coupled receptor 2		600240
Nuclear factor (erythroid-derived 2)-like 1		163260
Non-metastatic cells 1, protein (NM23A) expressed in		156490
Non-metastatic cells 2, protein (NM23) expressed in		156491
Distal-less homeo box 3		600525
Gastric inhibitory polypeptide		137240
Splicing factor, arginine/serine-rich 1 (splicing factor 2, alternate	splicing fac	600812
Collagen I, alpha-1 polypeptide		120150
Integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex,	antigen CD	273800
Integrin, beta-3 (platelet glycoprotein IIIa; antigen CD61)		173470
B-cell CLL/lymphoma-5		151441
Transcription factor 11 (basic leucine zipper type)		600115
Coilin p80		600272
Tumor necrosis factor, alpha-induced protein-1 (endothelial)		191161
Protein kinase C, alpha polypeptide		176960
GROWTH HORMONE/PLACENTAL LACTOGEN GENE CLUSTER		
Chorionic somatomammotropin hormone-1		150200
Chorionic somatomammotropin B		118820
Growth hormone-1		139250
Growth hormone-2		139240
Carbonic anhydrase IV		114760
Dipeptidyl carboxypeptidase-1 (angiotensin I converting enzyme)		106180
Immunoglobulin-associated protein (B29)		147245
Platelet/endothelial cell adhesion molecule (CD31 antigen)		173445
T-box 2		600747
Protein kinase, cAMP-dependent, regulatory, type I, alpha		188830
DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 5 (RNA helicase, 68kD)		180630
Intercellular adhesion molecule-2		146630
Uridine 5'-monophosphate phosphohydrolase-2	(EC 3.3.3.5	191720
Apolipoprotein H (beta-2-glycoprotein I)		138700
Peptidase E		170200
Tylosis with esophageal cancer		148500
Myeloperoxidase		254600

Zinc finger protein-147		600453
Sodium channel, voltage-gated, type 4, alpha polypeptide		170500
Calcium channel, L type, gamma polypeptide		114209
Cataract, congenital, cerulean type		115660
Galactokinase-1		230200
Somatostatin receptor-2		182452
Ferredoxin reductase (adrenodoxin reductase)		103270
Growth factor receptor-bound protein 2		600180
Phosphoribosyl pyrophosphate synthetase-associated protein 1		601249
Proteasome (prosome, macropain) 26S subunit, ATPase, 5		601681
SRY (sex-determining region Y)-box 9		211970
Arylalkylamine N-acetyltransferase		600950
Acyl-Coenzyme A oxidase		264470
Casein kinase 1, delta		600864
Secretory protein SEC7, human homolog of		182115
Envoplakin		601590
Fatty acid synthase		600212
Glucagon receptor		138033
Glutamate receptor, ionotropic, N-methyl D-aspartate 2C		138254
H3 histone, family 3B (H3.3B)		601058
Interleukin enhancer-binding factor		147685
Lectin, galactoside-binding, soluble, 3 binding protein (galectin 6	binding pro	600626
Procollagen-proline, 2-oxoglutarate-4-dioxygenase, beta polypeptide;	thyroid hor	176790
Phosphodiesterase 6G, cGMP-specific, rod, gamma		180073
Retinitis pigmentosa-17		600852
Russell-Silver syndrome		180860
Tissue inhibitor of metalloproteinase-2		188825
SEC14 (S. cerevisiae)-like		601504
CD7 antigen (p41)		186820
Glucosidase, acid alpha-		232300
Thymidine kinase-1		188300
Mucopolysaccharidosis IIIA (sulfaminidase)		252900
Cholinergic receptor, nicotinic, epsilon polypeptide		100725
Glucose-6-phosphate dehydrogenase-like		138110
Granulin		138945
Keratin-19		148020
Ligase III, DNA, ATP-dependent		600940
Myosin, light polypeptide-4, alkali; atrial, embryonic		160770
Pyroline-5-carboxylate reductase-1		179035
Small inducible cytokine A1		182281
Small inducible cytokine A11 (eotaxin)		601156
Splicing factor, arginine/serine-rich 2		600813
Oncogene ERV1; endogenous retrovirus-1		131150
Multiple hereditary cutaneous leiomyomata		150800

Thymidylate synthase		188350
Laminin, alpha 1		150320
NADH dehydrogenase (ubiquinone) flavoprotein 2 (24kD)		600532
Holoprosencephaly-4		142946
Oncogene YES-1		164880
Protein tyrosine phosphatase, non-receptor type, 2		176887
Eukaryotic translation initiation factor 4A, isoform 2		601102
Melanocortin-2 receptor (ACTH receptor)		202200
Melanocortin-5 receptor		600042
Protein tyrosine phosphatase, receptor-type, mu polypeptide		176888
Adenylate cyclase activating polypeptide-1 (pituitary)		102980
Bipolar affective disorder		125480
Transforming growth factor, beta 1 response element		275355
Twirler mouse mutation, human homolog of		601332
Lynch cancer family syndrome II		114400
Niemann-Pick disease, type C		257220
Solute carrier family 14 (urea transporter), member 1 (Kidd blood	group)	111000
GATA-binding protein 6		601656
Hepatitis B virus integration site-7		142333
Laminin, alpha 3 (nicein (150kD), (kalinin (165kD), BM600 (150kD),	epilegrin)	600805
Cadherin, neural type		114020
Synovial sarcoma, translocated to X chromosome		600192
Aquaporin 4		600308
Transthyretin (prealbumin)		176300
Zinc finger protein-24 (KOX17)		194534
Desmocollin-3		125645
Desmocollin 4		600271
Dystobrevin		601239
Desmoglein-1		125670
Desmoglein-2		125671
Desmoglein-3 (pemphigus vulgaris antigen)		169615
Urea transporter-2		601611
Meprin A, beta		600389
Gastrin-releasing peptide		137260
MAD (mothers against decapentaplegic, Drosophila) homolog 4		600993
MAD (drosophila) homolog JV18-1		601366
MAD (mothers against decapentaplegic, Drosophila) homolog 2		601366
Simian sarcoma-associated virus-1/Gibbon ape leukemia virus		182090
Benign recurrent intrahepatic cholestasis		243300
Progressive familial intrahepatic cholestasis 1 (Byler disease)		211600
Guanine nucleotide-binding protein, alpha-subunit, olfactory type		139312
Deleted in pancreatic carcinoma 4		600993
Cone rod dystrophy 1 (autosomal dominant)		600624
Familial expansile osteolysis		174810

Plasminogen activator inhibitor, type II (arginine-serpin)		173390
B-cell CLL/lymphoma-2		151430
Deleted in colorectal carcinoma		120470
Ferrochelatase		177000
Follicular lymphoma, variant translocation 1		136440
Protease inhibitor 5 (maspin)		154790
Squamous cell carcinoma antigen 1		600517
Squamous cell carcinoma antigen 2		600518
Lectin, mannose-binding, 1		601567
Melanocortin-4 receptor		155541
Aquaporin-4 [mercurial insensitive water channel]		600308
Myelin basic protein		159430
Gilles de la Tourette syndrome		137580
Cerebellin 2 precursor		600433
Cytochrome b5		250790
Galanin receptor		600377
Nuclear factor of activated T-cells, cytoplasmic-1		600489
Peptidase A		169800
Desmocollin 1		125643
Asparaginyl-tRNA synthetase		108410
Blood group OK		111380
Coxsackie virus B3 sensitivity		120050
Eukaryotic translation elongation factor 2		130610
Azurocidin-1 (cationic antimicrobial protein-37)		162815
Basigin		109480
Calcyphosine		114212
Cell division cycle 34		116948
Cerebellar ataxia, Cayman type		601238
Elastase-2, neutrophil		130130
egf-like module containing, mucin-like, hormone receptor-like	sequence	600493
Fc fragment of IgE, low affinity II, receptor for (CD23A)		151445
Fucosyltransferase 3 (galactoside 3(4)-L-fucosyltransferase, Lewis	blood grou	111100
Fucosyltransferase 5 (alpha (1,3) fucosyltransferase)		136835
Fucosyltransferase 6 (alpha (1,3) fucosyltransferase)		136836
General transcription factor IIF, polypeptide 1 (74kD subunit)		189968
Granzyme M (lymphocyte met-ase 1)		600311
Hypocalciuric hypercalcemia-2		145981
Lamin B2		150341
LW (Landsteiner-Weiner) blood group		111250
Myeloid/lymphoid, or mixed-lineage leukemia (trithorax (Drosophila)	homolog),	159556
Nuclear factor I/C (CCAAT-binding transcription factor)		600729
Nuclear factor I/X (CCAAT-binding transcription factor)		164005
Peutz-Jeghers syndrome		175200
Polymerase (RNA) II (DNA directed) polypeptide E (25kD)		180664

Proteinase-3 (serine proteinase, neutrophil, Wegener granulomatosis	autoantige	177020
Thromboxane A2 receptor		188070
Transcription factor-3 (E2A immunoglobulin enhancer-binding	factors E1	147141
Transducin-like enhancer of split 1, homolog of Drosophila E(spl)		600189
Transducin-like enhancer of split 2, homolog of Drosophila E(spl)		601041
Anti-Mullerian hormone		600957
Atherosclerosis susceptibility (lipoprotein associated)		108725
Complement component-3		120700
DNA methyltransferase		126375
Erythropoietin receptor		133171
Intercellular adhesion molecule-1		147840
Intercellular adhesion molecule-3		146631
Myosin ID		601480
N-acetylglucosamine receptor 1 (thyroid)		160994
Regulatory factor (trans-acting) 2 (influences HLA class II	expression	142765
Spliceosome protein SAP-62		600796
Zinc finger protein 14 (KOX 6)		194556
Oncogene VAV		164875
Zinc finger protein 14 (KOX 6)		194556
Acid phosphatase 5, tartrate resistant		171640
Bone marrow stromal cell antigen		600534
Sicca syndrome antigen A (autoantigen Ro; calreticulin)		109091
Glutaryl-Coenzyme A dehydrogenase		231670
Insulin-like 3 (Leydig cell)		146738
Insulin receptor		147670
jun B proto-oncogene		165161
RAD23 (Saccharomyces cerevisiae) homolog A		600061
Tryosine kinase-2		176941
U2 small nuclear ribonucleoprotein auxiliary factor, small subunit 3		601080
CD97 antigen		601211
Familial hypercholesterolemia (LDL receptor)		143890
Lymphoblastic leukemia derived sequence-1		151440
Notch (Drosophila) homolog 3		600276
Oncogene MEL		165040
phosphodiesterase 4A, cAMP-specific (dunce (Drosophila)-homolog	phosphodi	600126
Troponin-I, cardiac		191044
Oncogene liposarcoma (DNA Segment, single copy, expressed, probes	MC15, MC	164953
DNase, lysosomal		126350
Deoxyhypusine synthase		600944
Cerebral autosomal dominant arteriopathy with subcortical infarcts	and leukoe	125310
Cartilage oligomeric matrix protein		600310
ELL gene (11-19 lysine-rich leukemia gene)		600284
Regulatory factor (trans-acting) 1 (influences HLA class II	expression	600006
Prostaglandin E receptor 1 (subtype EP1), 42kD		176802

Tropomyosin 4		600317
jun D proto-oncogene		165162
RAS-associated protein RAB3A		179490
Ubiquitin A-52 residue ribosomal protein fusion product 1		191321
Green/blue eye color		227240
Brown hair color		113750
Leukocyte surface antigen CD37		151523
Calcium channel, L type, alpha 1 polypeptide, isoform 4	(neuroendo	601011
Cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)		600927
Guanine nucleotide-binding protein, Gq class, GNA11		139313
Guanine nucleotide-binding protein (G protein) alpha 15 (Gq class)		139314
MADS box transcription enhancer factor 2, polypeptide B (myocyte	enhancer f	600661
Exostoses (multiple) 3		600209
Fibronectin receptor, beta subunit, pseudogene (insertion	polymorphi	135631
Zinc finger protein-77 (pT1)		194551
Zinc finger protein-121 (clone ZHC32)		194628
Mannosidase, alpha B, lysosomal		248500
Lutheran blood group; Auberger blood group		111200
Peptidase D (prolidase)		170100
Glycoprotein, alpha-1B		138670
Alzheimer disease-2 (late-onset)		104310
Amyloid beta (A4) precursor-like protein-1		104775
Benign familial infantile convulsions		601764
Ribosomal protein S11		180471
Synaptotagmin-3		600327
Hepsin		142440
Polymerase (RNA) II (DNA directed) polypeptide I (14.5kD)		180662
Ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1		191327
Nephrosis 1, congenital, Finnish type		256300
ATPase, Na+K+ transporting, alpha-3 polypeptide		182350
Antigen, prostate-specific		176820
B-cell CLL/lymphoma-3		109560
Creatine kinase, muscle type		123310
Deafness, autosomal dominant 4		600652
Enoyl Coenzyme A hydratase 1, peroxisomal		600696
Kallikrein-2, prostatic		147960
Orofacial cleft-3		600757
Plasminogen activator, urokinase, receptor		173391
Upstream transcription factor 2, c-fos interacting		600390
Adeno-associated virus integration site-1		102699
ATPase, H+, K+ transporting, alpha		137216
Cyclin E		123837
CD22 antigen		107266
CCAAT/enhancer-binding protein (C/EBP), alpha		116897

Charcot-Leyden crystal protein		153310
Cytochrome c oxidase VIb		124089
Glucose phosphate isomerase; neuroleukin		172400
Myelin-associated glycoprotein		159460
Zinc finger protein 146		601505
Ryanodine receptor-1 (skeletal)		180901
Sodium channel, voltage-gated, type I, beta polypeptide		600235
Zinc finger protein homologous to Zfp-36 in mouse		190700
Murine thymoma viral (v-akt) homolog-2		164731
AXL transforming sequence (a receptor tyrosine kinase)		109135
Branched chain keto acid dehydrogenase E1, alpha polypeptide		248600
Cone rod dystrophy 2 (autosomal dominant)		120970
Lipase, hormone-sensitive		151750
Pregnancy-specific beta-1-glycoprotein-1		176390
Pregnancy specific beta-1-glycoprotein-4		176393
Pregnancy specific beta-1-glycoprotein-5		176394
Pregnancy specific beta-1-glycoprotein-6		176395
Pregnancy specific beta-1-glycoprotein-7		176396
Pregnancy specific beta-1-glycoprotein-8		176397
Transforming growth factor, beta-1		190180
Echo 11 sensitivity		129150
RD114 virus receptor (baboon M7 virus receptor)		109190
Cytoskeleton-associated protein 1		601303
Biliverdin reductase B		600941
Apolipoprotein C-IV		600745
APOLIPOPROTEIN CLUSTER II		
Apolipoprotein E		107741
Apolipoprotein C-I		107710
Apolipoprotein C-II		207750
Biliary glycoprotein		109770
Carcinoembryonic antigen		114890
Cytochrome P450, subfamily IIA (phenobarbital-inducible)		123960
Cytochrome P450, subfamily IIB (phenobarbital-inducible)		123930
Cytochrome P450, subfamily IIF, polypeptide 1		124070
Glutamate receptor, ionotropic, kainate 5		600283
Immunoglobulin-associated alpha		600352
Non-specific crossreacting antigen		163980
Pregnancy-specific beta-1-glycoprotein-2		176391
Pregnancy-specific beta-1-glycoprotein-3		176392
Pregnancy-specific beta-1-glycoprotein 11		176398
Pregnancy-specific beta-1-glycoprotein 12		176399
Pregnancy-specific beta-1-glycoprotein 13		176401
X-ray-repair, complementing defective, repair in Chinese hamster	cells-1	194360
Calmodulin 3		114183

Dystrophia myotonica		160900
Excision repair cross complementing rodent repair deficiency,	complemer	126380
Excision repair cross complementing rodent repair deficiency,	complemer	126340
G protein-coupled receptor 4		600551
Heart block, progressive familial, type I		113900
Kinesin, light chain, 2		601334
Ligase I, DNA, ATP-dependent		126391
Zinc finger MOK2 protein		601069
Polio virus sensitivity		173850
tRNA phosphoserine (opal suppressor)		165060
Vasodilator-stimulated phosphoprotein		601703
Kallikrein, renal/pancreas/salivary		147910
Nucleobindin 1		601323
Zinc finger protein-42 (myeloid-specific retinoic acid responsive)		194550
Zinc finger protein 13 (KOX 5)		194554
Zinc finger protein 27 (KOX 22)		194555
D site of albumin promoter binding protein		124097
DM locus-associated homeodomain protein		600963
Electron transfer flavoprotein, beta polypeptide		130410
Fc fragment of IgG, receptor, transporter, alpha		601437
Oncogene FOS-B		164772
Fucosyltransferase-1 (Bombay phenotype)		211100
Fucosyltransferase-2 (secretor)		182100
Gastric inhibitory polypeptide receptor		137241
Glycogen synthase		138570
Histidine-rich calcium-binding protein		142705
Nerve growth factor, gamma subunit		162040
Neurotrophin-4		162661
Protein phosphatase 5, catalytic subunit		600658
Prostaglandin I2 (prostacyclin) receptor (IP)		600022
Small nuclear ribonucleoprotein 70kD polypeptide (RNP antigen)		180740
Solute carrier family 1 (neutral amino acid transporter), member 5		600683
Sulfotransferase dehydroepiandrosterone (DHEA)-preferring		125263
Ubiquitously-expressed nuclear receptor		600380
BCL2-associated X protein		600040
CD33 antigen (gp67)		159590
Ferritin, light chain		134790
Interleukin-11		147681
Potassium voltage-gated channel, Shaw-related subfamily, member 2		176256
Potassium voltage-gated channel, Shaw-related subfamily, member 3		176264
Polymerase (DNA directed), delta 1, catalytic subunit		174761
Zinc finger protein 83 (HPF1)		194558
Zinc finger protein 160		600398
Chorionic gonadotropin, beta polypeptide		118860

Luteinizing hormone, beta polypeptide		152780
Melanoma inhibitory activity		601340
Fc fragment of IgA, receptor for		147045
Lens intrinsic protein 2 (19kD)		154045
Retinitis pigmentosa-11 (autosomal dominant)		600138
Protein kinase C, gamma polypeptide		176980
Troponin-T1, skeletal, slow		191041
Amino-terminal enhancer of split		600188
Branched chain aminotransferase-2		113530
Complement component-5 receptor-2 (C5a ligand)		113995
Calpain, small polypeptide		114170
ATP-dependent protease ClpAP (E. coli), proteolytic subunit, human	homolog of	601119
Cytochrome c oxidase subunit VIIa, polypeptide-1 (muscle)		123995
ERBA-related gene-2		132880
Formyl peptide receptor-1		136537
Formyl peptide receptor-like-1		136538
Formyl peptide receptor-like-2		136539
Glutathione peroxidase 4 (phospholipid hydroperoxidase)		138322
Beta-glucuronidase, mouse, modifier of		231610
GLI-Kruppel family member HKR1 (oncogene HKR1)		165250
GLI-Kruppel family member HKR2 (oncogene HKR2)		165260
Potassium voltage-gated channel, shaker-related subfamily, member 7		176268
Lectin, galactoside-binding, solute 7 (galectin 7)		600615
Macrophage migration inhibitory factor		153620
Myosin-binding protein C, fast type		160793
Neuro-d4 (rat) homolog		601670
Neurotrophin-5		162662
Proprotein convertase subtilisin/kexin type 4		600487
phosphodiesterase 4C, cAMP-specific (dunce (Drosophila)-homolog	phosphodi	600128
Phosphoglycerate kinase-2 (testicular PGK)		172270
POU domain, class 2, transcription factor 2		164176
Protein kinase C substrate 80K-H		177060
Oncogene RRAS		165090
Prodynorphin		131340
Chromogranin B (secretogranin B)		118920
Prion protein (p27-30)		176640
Adrenergic, alpha-1D-, receptor		104222
Arginine vasopressin (neurophysin II, antidiuretic hormone)		192340
Cell division cycle 25B		116949
Centromeric protein B		117140
Casein kinase-2, alpha-1 polypeptide		115440
FK506-binding protein-1 (12kD)		186945
Oxytocin-neurophysin I		167050
Protein tyrosine phosphatase, receptor-type, alpha polypeptide		176884

Sialoadhesin		600751
Transcription factor 15 (basic helix-loop-helix)		601010
Bone morphogenetic protein-2		112261
Proliferating cell nuclear antigen		176740
Phospholipase C, beta 4		600810
Extracellular matrix glycoprotein, chicken, human homolog of		601418
Alagille syndrome (arteriohepatic dysplasia)		118450
Cystatin D		123858
Paired box homeotic gene-1		167411
Somatostatin receptor 4		182454
Proprotein convertase subtilisin/kexin type 2		162151
Synaptosomal-associated protein (25kD)		600322
Phosphorylase, glycogen, brain		138550
Thrombomodulin		188040
Congenital hereditary endothelial dystrophy of cornea		121700
Posterior polymorphous corneal dystrophy		122000
Cystatin C		105150
Hepatic nuclear factor-3-beta		600288
Inosine triphosphatase-A		147520
Microtubule-associated proteins 1A and 1B, light chain 3		601242
S-adenosylhomocysteine hydrolase		180960
Inhibitor of DNA binding 1, dominant negative		600349
Hemopoietic cell kinase		142370
Agouti (mouse)-like		600201
Growth hormone releasing factor; somatocrinin		139190
Glutathione synthetase		601002
Retinoblastoma-like 1 (p107)		116957
Syntrophin, alpha (dystrophin-associated protein A1, 59kD, acidic	componen	601017
Myeloid leukemia-related gene (myeloid tumor suppressor)		601308
Transglutaminase-2 (C polypeptide,	protein-gl	190196
Matrix metalloproteinase 9 (gelatinase B, 92kD type IV collagenase)		120361
Bactericidal/permeability-increasing protein		109195
Lipopolysaccharide-binding protein		151990
Transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyl	transferase	600238
Protease inhibitor 3, skin derived (SKALP)		182257
Syndecan 4 (amphiglycan, ryudocan)		600017
Protooncogene SRC, Rous sarcoma		190090
Phospholipase C, gamma 1 (formerly subtype 148)		172420
Phospholipid transfer protein		172425
Ribophorin II		180490
Semenogelin		182140
Semenogelin II		182141
Transcription factor 14, hepatic nuclear factor (HNF4)		600281
Topoisomerase (DNA) I		126420

CD40 antigen		109535
Cellular apoptosis susceptibility		601342
Zinc finger protein-8		194532
CCAAT/enhancer-binding protein (C/EBP), beta (transcription factor-5)		189965
Eyes absent, drosophila, human homolog of, 2		601654
v-myb avian myeloblastosis viral oncogene homolog-like 2		601415
Protective protein for beta-galactosidase (cathepsin A)		256540
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation	protein, be	601289
Protein tyrosine phosphatase, non-receptor type, 1		176885
Adenosine deaminase		102700
Guanine nucleotide-binding protein (G protein), alpha-stimulating	activity po	139320
Potassium voltage-gated channel, Shab-related subfamily, member 1		600397
Melanocortin-3 receptor		155540
Transcription factor AP-2 gamma (activating enhancer-binding protein	2 gamma)	601602
Cholinergic receptor, nicotinic, alpha polypeptide-4		118504
Cytochrome P450, subfamily XXIV (vitamin D 24-hydroxylase)		600125
Endothelin-3		131242
Electro-encephalographic variant pattern-1		130180
Nuclear factor of activated T-cells, cytoplasmic 2		600490
Collagen, type IX, alpha 3		120270
Cystatin SN		123855
Cystatin SA		123856
G protein-coupled receptor 8		600731
Phosphoenolpyruvate carboxykinase-1 (soluble)		261680
Adrenergic, alpha-1A-, receptor		104219
Bone morphogenetic protein-7 (osteogenic protein-1)		112267
Desmosterol-to-cholesterol enzyme		125650
Eukaryotic translation initiation factor 4E-like 2		600200
Leucine transport, high		151310
Ribosomal RNA-4		180453
Stress 70 protein chaperone, microsome-associated, p60		601100
Myeloproliferative syndrome, transient (transient abnormal	myelopoies	159595
Protease, serine, 7 (enterokinase)		226200
GA-binding protein transcription factor, alpha subunit (60kD)		600609
Amyloid beta (A4) precursor protein		104760
Glutamate receptor, ionotropic, kainate 1		138245
Solute carrier family 5 (inositol transporter), member 3		600444
Cytokine receptor, family II, member 4		123889
Phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide	synthetase	138440
Holocarbyoxylase synthetase		253270
Interferon (alpha and beta), receptor for		107450
Potassium inwardly-rectifying channel, subfamily J, member		600854
Superoxide dismutase-1, soluble		147450
T-cell lymphoma invasion and metastasis 1		600687

ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit	(oligomycir	600828
Platelet disorder, familial, with associated myeloid malignancy		601399
Interferon, gamma, receptor-2		147569
Potassium voltage-gated channel, Isk-related subfamily, member 1		176261
Potassium inwardly-rectifying channel, subfamily J, member 6		600877
\'minibrain\' (Drosophila) homolog (dual specificity tyrosine	phosphory	600855
SON DNA-binding protein		182465
Carbonyl reductase		114830
Chromatin assembly factor I, p60 subunit		601245
Single-minded (Drosophila) homolog		600892
S100 calcium-binding protein, beta (neural)		176990
Autoimmune polyglandular disease, type I		240300
Trefoil factor 1 (breast cancer, estrogen-inducible sequence	expressed	113710
Core-binding factor, runt domain, alpha subunit (aml1 oncogene)		151385
Cystathionine beta-synthase		236200
Collagen VI, alpha-1 polypeptide		120220
Collagen VI, alpha-2 polypeptide		120240
Collagen, type XVIII, alpha 1		120328
Crystallin, alpha polypeptide 1		123580
Deafness, autosomal recessive 8		601072
Down syndrome chromosome region		190685
Erythroblastosis virus E26, avian, (v-ets) oncogene related		165080
Oncogene ETS-2		164740
GT335 gene		601659
Nonhistone chromosomal protein HMG-14		163920
Holoprosencephaly-1, alobar		236100
Integrin, beta-2 (antigen CD18 (p95), lymphocyte function-associated	antigen-1;	600065
Knobloch syndrome		267750
Lanosterol synthase		600909
Myxovirus (influenza) resistance-1 (interferon induced protein p78)		147150
Pericentrin		170285
Phosphofructokinase, liver type		171860
PWP2 (periodic tryptophan protein, yeast) homolog		601475
Solute carrier family 19 (folate transporter), member 1		600424
Spasmolytic protein-1		182590
Stefin B (cystatin B)		601145
Trefoil factor 3 (intestinal)		600633
U2(RNU2) small nuclear RNA auxillary factor 1		191317
Beta-amino acids, renal transport of		109660
Beta-adrenergic stimulation, response to		109670
Heat shock 70kD protein-3		140570
5-hydroxytryptamine oxygenase regulator		143460
Myxovirus (influenza) resistance-2		147890
Voltage-dependent anion channel 2		193245

ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD		108746
X-box-binding protein-2		194355
Ribosomal RNA-5		180454
Zinc finger protein-72 (Cos8)		194546
Zinc finger protein-73 (Cos12)		194547
Cataract, congenital, cerulean type, 2		601547
Adrenergic, beta, receptor kinase 2		109636
Cat eye syndrome		115470
Clathrin, heavy polypeptide D		601273
Conotruncal cardiac anomalies		217095
DiGeorge syndrome chromosome region (velocardiofacial syndrome)		188400
DiGeorge critical region gene 2 (integral membrane protein deleted	in DiGeorg	600594
Dishevelled, drosophila, homolog-like		601225
Heparin cofactor II		142360
Acetylgalactosaminidase, alpha-N- (alpha-galactosidase B)		104170
Rhabdoid tumors		601607
Schizophrenia susceptibility-3		600511
Solute carrier family 20 (mitochondrial citrate transporter), member 3		190315
Tup-like enhancer of split 1		600237
Line-1.2 retrotransposable element		151626
Thyroid autoantigen 70kD (Ku antigen)		152690
Schizophrenia disorder 4		600850
Gamma-glutamyltransferase-1		231950
Leucine-zipper-like regulator-1		600574
Gamma-glutamyltransferase-2		137181
IMMUNOGLOBULIN LAMBDA LIGHT CHAIN GENE CLUSTER		
Variable region of lambda light chains		147240
J region of lambda light chains		147230
Constant region of lambda light chains		147220
Catechol-O-methyltransferase		116790
DiGeorge syndrome critical region gene DGSI		601755
Guanine nucleotide-binding protein (G protein), alpha z polypeptide		139160
Glycoprotein Ib (platelet), beta polypeptide		138720
Glutathione S-transferase theta 2		600437
Matrix metalloproteinase 11 (stromelysin 3)		185261
Myosin, heavy polypeptide-9, nonmuscle		160775
Opitz G syndrome, type II		145410
Protein kinase, mitogen-activated 1 (MAP kinase 1; p40, p41)		176948
Ubiquitin fusion degradation 1-like		601754
Zinc finger protein-69 (Cos5)		194543
Zinc finger protein-70 (Cos17)		194544
Zinc finger protein-71 (Cos26)		194545
Zinc finger protein-74 (Cos52)		194548
Crystallin, beta B1		600929

Crystallin, beta polypeptide 2		123620
Crystallin, beta polypeptide 3		123630
Interleukin-2 receptor, beta polypeptide		146710
Myoglobin		160000
Crystallin, beta polypeptide A4		123631
P1 blood group		111410
Transcobalamin II		275350
Breakpoint cluster region		151410
Breakpoint cluster region-like 2		113630
Breakpoint cluster region-like 3		113640
Breakpoint cluster region-like 4		113660
Pre-B lymphocyte-specific protein (immunoglobulin iota polypeptide)		146770
Pre-B lymphocyte-specific protein-2		146771
Aconitase, mitochondrial		100850
Adaptin, beta (meningioma candidate)		600157
Ewing sarcoma breakpoint region-1		133450
Heme oxygenase (decycling) 1		141250
Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation	protein, et	113508
Casein kinase 1, epsilon		600863
Lectin, galactose-binding, soluble-1		150570
Parvalbumin		168890
Leukemia inhibitory factor (cholinergic differentiation factor)		159540
Oncostatin M		165095
Tissue inhibitor of metalloproteinase-3		188826
Neurofilament, heavy polypeptide		162230
Neurofibromatosis-2 (bilateral acoustic neuroma)		101000
Colony-stimulating factor-2 receptor, beta, low-affinity		138981
Platelet-derived growth factor, beta polypeptide (oncogene SIS)		190040
Endothelial cell growth factor-1, platelet-derived		131222
Glutamate decarboxylase-3		138276
Sterol regulatory element binding transcription factor 2		600481
Thyrotroph embryonic factor		188595
Acrosin		102480
Adenylosuccinate lyase		103050
Cytochrome P450, subfamily IID		124030
H1-0 histone		142708
Potassium inwardly-rectifying channel, subfamily J, member 4		600504
Neutrophil cytosolic factor-4		601488
Solute carrier family 5 (sodium/glucose transporter), member 1		182380
Somatostatin receptor-3		182453
Sorsby fundus dystrophy		136900
Fibulin 1		135820
Benzodiazepine receptor, peripheral type (benzodiazepine peripheral	binding site	109610
Arylsulfatase A		250100

Diaphorase (NADH); cytochrome b-5 reductase		250800
Adenosine A2a receptor		102776
Antigen MSK41 identified by monoclonal antibody E3		107260
Arylsulfatase C, f form		301780
Acetylserotonin methyltransferase		300015
Growth control factor, X-linked		312865
MIC2 (monoclonal antibody 12E7)		313470
Xg blood group		314700
Craniofrontonasal dysplasia		304110
Adenine nucleotide translocator-3 (liver)		300151
Colony-stimulating factor-2 receptor, alpha, low-affinity	(granulocy	306250
DNA segment, numerous copies, expressed probes (GS1 gene)		306480
DNA segment, single copy, homologous on X and Y, expressed probes	XE7-6, XE	312095
Steroid sulfatase, microsomal		308100
XG/MIC2 regulator		314705
Dermal hypoplasia, focal		305600
Microphthalmia with linear skin defects		309801
Apical protein, Xenopus laevis-like		600569
Arylsulfatase E		302950
Arylsulfatase D		300002
Arylsulfatase F		300003
Chloride channel 4		302910
H-Y regulator, or repressor		306970
Interleukin-3 receptor, alpha subunit		308385
Kallmann syndrome-1 sequence		308700
Ocular albinism-1, Nettleship-Falls type		300500
Ocular albinism and sensorineural deafness		300650
Phosphoribosyl pyrophosphate synthetase 2		311860
Amelogenin		301200
Gastrin-releasing peptide receptor		305670
Nance-Horan cataract-dental syndrome		302350
Polymerase (DNA directed), alpha		312040
Retinoschisis		312700
BMX non-receptor tyrosine kinase		600612
Charcot-Marie-Tooth disease, X-linked-2, recessive		302801
F-cell production		305435
Glycoprotein M6B		300051
Hypomagnesemia, secondary hypocalcemia		307600
Zinc finger protein, X-linked		314980
Keratosis follicularis spinulosa decalvans		308800
Coffin-Lowry syndrome		303600
Corneal dermoids		304730
Hypophosphatemia, vitamin D resistant rickets		307800
Pyruvate dehydrogenase, E1-alpha polypeptide-1		312170

Phosphorylase kinase deficiency, liver (glycogen storage disease	type VIII)	306000
Partington syndrome (mental retardation, X-linked, syndromic-1, with	dystonic m	309510
Spondyloepiphyseal dysplasia, late		313400
Retinitis pigmentosa 15		300029
Gonadal dysgenesis, XY female type		306100
Phosphatidylinositol glycan, class A		311770
Spermidine/spermine N1-acetyltransferase		313020
U2 small nuclear ribonucleoprotein auxiliary factor, small subunit 2		300028
Glycine receptor, alpha-2 polypeptide		305990
Zinc finger protein-81 (HFZ20)		314998
Zinc finger protein-41		314995
Agammaglobulinemia, X-linked 2 (with growth hormone deficiency)		300310
Aicardi syndrome		304050
Deafness, X-linked 6, sensorineural		300066
Hereditary hypophosphatemia II (gyro equivalent)		307810
Holocytochrome c synthase (cytochrome c heme-lyase)		300056
Mental retardation, X-linked-1, non-dysmorphic		309530
Opitz G syndrome, type I		300000
Pigment disorder, reticulate		301220
DSS/AHC critical interval gene, from MAGE superfamily, 6		600891
DSS/AHC critical interval gene, from MAGE superfamily, 10		600893
Dosage-sensitive sex reversal		300018
MAGE-like gene		600619
Adrenal hypoplasia, congenital		300200
Glycerol kinase deficiency		307030
Retinitis pigmentosa-6 (X-linked recessive)		312612
Deafness 4, congenital sensorineural		300030
Dystrophin (muscular dystrophy, Duchenne and Becker types)		310200
Kell blood group precursor		314850
Ubiquitin carboxyl-terminal hydrolase, X-linked		300050
Lutheran suppressor, X-linked		309050
Congenital stationary night blindness 2		300071
Cytochrome b-245, beta polypeptide		306400
Ornithine transcarbamylase		311250
Retinitis pigmentosa-3 (X-linked recessive)		312610
Wilson-Turner syndrome (mental retardation, X-linked, syndromic-6,	with gynec	309585
Gonadotropin deficiency		306190
Snyder-Robinson X-linked mental retardation syndrome		309583
Mental retardation, X-linked 9		309549
Norrie disease (pseudoglioma)		310600
Aland island eye disease (ocular albinism, Forsius-Eriksson type)		300600
Properdin P factor, complement		312060
Oncogene ARAF1		311010
Synapsin I		313440

Cone dystrophy-1 (X-linked)		304020
Congenital stationary night blindness-1		310500
Retinitis pigmentosa-2 (X-linked recessive)		312600
Ornithine aminotransferase-like 1		311240
PCTAIRE protein kinase 1		311550
Erythroid-potentiating activity (tissue inhibitor of	metalloprot	305370
Mental retardation, X-linked 14		300062
GATA-binding protein-1 (globin transcription factor-1)		305371
Monoamine oxidase A		309850
Monoamine oxidase B		309860
RNA binding motif protein 3		300027
Ubiquitin-activating enzyme E1 (teA1S9)		314370
Synaptophysin		313475
UDP-galactose translocator		314375
Wiskott-Aldrich syndrome		301000
Chloride channel 5		300008
Nephrolithiasis 1 (X-linked)		310468
Transcription factor for IgH enhancer		314310
XE169 gene (selected mouse cDNA on X, human homolog of)		314690
Segregation of mitotic chromosomes 1 (SMC1, yeast human homolog of;	DXS423E;	300040
Ornithine aminotransferase-like 2		311241
Aminolevulinate, delta-, synthase-2		301300
Faciogenital dysplasia (Aarskog-Scott syndrome)		305400
Incontinentia pigmenti-1, sporadic type		308300
ELK1, member of ETS oncogene family		311040
Renal cell carcinoma, papillary		312390
Synovial sarcoma, X breakpoint 1		312820
Zinc finger protein 157 (HZF22)		300024
Mental retardation, X-linked nonspecific, with aphasia		309545
Actin-like sequence-1		300020
Mental retardation, X-linked 20		300047
Prieto syndrome (mental retardation, X-linked, syndromic-2, with	dysmorphis	309610
Sutherland-Haan syndrome (mental retardation, X-linked, syndromic-3,	with spasti	309470
Calbindin 3 (vitamin D-dependent calcium-binding protein)		302020
Cataracts, congenital total		302200
Rett syndrome		312750
Spinal muscular atrophy, X-linked lethal infantile		300021
Fructose-2,6-bisphosphatase		311790
Arrestin 3, retinal		301770
A-11 gene		300010
Membrane component, X chromosome, surface marker 1		600689
Androgen receptor (dihydrotestosterone receptor)		313700
Mental retardation, X-linked-2, non-dysmorphic		309540
Moesin		309845

AU-rich element RNA-binding protein 1, type B		300057
eph-related receptor tyrosine kinase ligand 2		300035
ATPase, Cu++ transporting, alpha polypeptide		300011
Anhidrotic ectodermal dysplasia		305100
Anemia, sideroblastic, with spinocerebellar ataxia		301310
Interleukin-2 receptor, gamma		308380
Myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila)	homolog);	300033
Nucleotide receptor, uridine		300038
Phosphoglycerate kinase-1		311800
Phosphorylase kinase, muscle, alpha polypeptide		311870
RAD54 (Saccharomyces cerevisiae)		300032
Cholesterol repressible protein 39C		302920
Voltage-dependent anion channel 1		314555
Wieacker-Wolff syndrome		314580
Miles-Carpenter syndrome (mental retardation, X-linked, syndromic-4,	with conge	309605
Cell cycle, G1 phase defect (temperature sensitive mutation, mouse	and hamst	313650
Torsion dystonia-parkinsonism, Filipino type		314250
Gap junction protein, beta-1, 32kD (connexin 32)		304040
Ribosomal protein S4, X-linked		312760
Caudal type homeo box transcription factor 4		300025
Solute carrier family 16 (monocarboxylic acid transporters),	member 2	600094
X chromosome controlling element (X-inactivation center)		314670
Allan-Herndon-Dudley mental retardation syndrome		309600
Premature ovarian failure-1		311360
Farnesylpyrophosphate synthetase-5		305425
Teratocarcinoma-derived growth factor-2		313680
POU domain, class 3, transcription factor 4		300039
Zinc finger protein-6		314990
Cleft palate and/or ankyloglossia		303400
Choroideremia		303100
Protein kinase C, iota		600539
Bruton agammaglobulinemia tyrosine kinase		300300
Megalocornea-1, X-linked		309300
Panhypopituitarism, X-linked		312000
Collagen, type IV, alpha-5 polypeptide		303630
Collagen, type IV, alpha-6 polypeptide		303631
Deafness 1, progressive (deafness/dystonia peptide)		304700
Dystrophin-related protein 2		300052
Galactosidase, alpha		301500
Guanylate cyclase 2F		300041
Proteolipid protein; Pelizaeus-Merzbacher disease		312080
Angiotensin receptor 2		300034
Phosphoribosyl pyrophosphate synthetase-1		311850
Amelogenesis imperfecta-3, hypomaturation or hypoplastic type		301201

MYCL-related processed gene		310310
Thyroxine-binding globulin		314200
Mental retardation, X-linked 23		300046
5-hydroxytryptamine (serotonin) receptor-2C		312861
Lysosome-associated membrane protein-2		309060
RAD6, yeast, human homolog of, type A		312180
Adenine nucleotide translocator-2 (fibroblast)		300150
Neuropathy, axonal motor-sensory, with deafness and mental retardation	(Cowchock	310490
Bazex syndrome		301845
Hypertrichosis, congenital generalized		307150
Hepatoma-derived growth factor		300043
Lymphoproliferative syndrome		308240
Glutamate receptor, ionotropic, AMPA 3		305915
Heterotaxy-1		306955
Thoracoabdominal syndrome		313850
Pettigrew syndrome (mental retardation, X-linked, with Dandy-Walker	malformati	304340
CD40 antigen ligand (hyper-IgM syndrome)		308230
Glypican 3		300037
Gustavson mental retardation syndrome (with microcephaly, optic	atrophy, de	309555
Simpson dysmorphia syndrome		312870
Split hand/foot malformation, type (ectrodactyly) 2		313350
Zinc finger protein-75		314997
Borjeson-Forssman-Lehmann syndrome		301900
Hypoparathyroidism		307700
SRY (sex determining region Y)-box 3		313430
Hypoxanthine phosphoribosyltransferase		308000
Arthrogryposis multiplex congenita X-linked (spinal muscular atrophy,	infantile, X	301830
Glutamate dehydrogenase pseudogene-1		305910
Immunoneurologic syndrome X-linked, of Wood, Black, and Norbury		600486
Oculocerebrorenal syndrome of Lowe		309000
SNF2 (sucrose nonfermenting, yeast, homolog)-like		300012
Albinism-deafness syndrome		300700
Oncogene MCF2 (oncogene DBL)		311030
Anophthalmos-1 (with mental retardation but without anomalies)		301590
Cerebellar degeneration-related protein-1		302650
Coagulation factor IX (plasma thromboplastic component)		306900
Fragile X mental retardation-1		309550
Epidermolysis bullosa, macular type		302000
Adrenoleukodystrophy		300100
N-acetyltransferase ARD1, human homolog of		300013
ATPase, Ca++ transporting, plasma membrane 3		300014
Arginine vasopressin receptor-2 (nephrogenic diabetes insipidus)		304800
Biglycan		301870
Caltractin		300006

Blue-monochromatic colorblindness (blue cone monochromacy)		303700
Cardiomyopathy, dilated 3A (X-linked)		300069
Chondrodysplasia punctata-2, X-linked dominant (Happle syndrome)		302960
Dyskeratosis congenita		305000
DNase I, lysosomal-like		600793
DNA segment, single copy, expressed probes, intron 22 probe, F8B		305424
QM gene		312173
Endocardial fibroelastosis-2 (Barth syndrome; cardioskeletal	myopathy	302060
Emery-Dreifuss muscular dystrophy		310300
Factor VIII associated gene		305423
Coagulation factor VIIIc, procoagulant component		306700
Filamin-1 (actin-binding protein-280)		300017
Fragile site, X-linked, E		309548
Fragile site, folic acid type, rare, fra(X)(q28)		300031
Glucose-6-phosphate dehydrogenase		305900
Gamma-aminobutyric acid (GABA) A receptor, alpha-3		305660
Homosexuality, male		306995
Green cone pigment		303800
Protein GDX		312070
Host cell factor C1 (VP16-accessory protein)		300019
Iduronate 2-sulfatase (Hunter syndrome)		309900
Interleukin 9 receptor		300007
Incontinentia pigmenti-2 (familial, male-lethal type)		308310
Intestinal pseudoobstruction, neuronal, primary idiopathic		300048
ITBA1 gene		300059
ITBA2 gene		300060
L1 cell adhesion molecule		308840
Major affective disorder-2		309200
Melanoma antigen 1 (directs expression of antigen MZ2-E)		300016
Methyl-CpG-binding protein-2		300005
Membrane protein, palmitoylated-1 (55kD)		305360
Mental retardation-skeletal dysplasia		309620
Mental retardation, X-linked-3		309541
Mature T-cell proliferation 1		600482
Myotubular myopathy-1 (myotubularin)		310400
Myopia-1 (Bornholm eye disease)		310460
Nodular heterotopia, bilateral periventricular		300049
Otopalatodigital syndrome, type I		311300
Protein P3		312090
Mental retardation with psychosis, pyramidal signs, and macroorchidism		300055
Red cone pigment		303900
Renin-binding protein		312420
Rho-GAP hematopoietic protein C1		300023
Sex chromosome X transmembrane protein of HGF receptor family 3		300022

Solute carrier family 6 (neurotransmitter transporter, creatine),	member 8	300036
Synaptobrevin-like 1		300053
Torticollis, keloids, cryptorchidism and renal dysplasia		314300
Transketolase-2		300044
Waisman syndrome (basal ganglion disorder with mental retardation)		311510
Xm		314900
FSH primary response (LRPR1, rat) homolog 1		300065
Fibroblast growth factor 13		300070
Acetylserotonin methyltransferase (Y chromosome)		402500
Antigen identified by monoclonal 12E7, Y homolog		450000
Testis-specific protein, Y-linked		480100
Pseudoautosomal gene XE7 (Y chromosome)		465000
Interleukin-3 receptor (Y chromosome)		430000
Ribosomal protein S4, Y-linked		470000
Testis determining factor (sex-determining region Y)		480000
Zinc finger protein, Y-linked		490000
Amelogenin (Y chromosome)		410000
Granulocyte-macrophage colony-stimulating factor receptor, alpha	subunit (Y	425000
Adenine nucleotide translocator-3 (Y chromosome)		403000
Azoospermia factor 2		400000
Selected mouse cDNA on Y, human homolog of		600055
Azoospermia factor 1		415000
Deleted in azoospermia		400003
Histocompatibility Y antigen		426000
RNA binding motif protein 1		400006
RNA binding motif protein 2		400007
XG blood group, pseudogene, on Y		400002
Stature, Y-linked		475000

V	
Fd	linked to Rh in Scottish family
S, F, R, REa	
S, F	
REa, F	
REa, A	
REa	
REa, A	
S, H	
Psh	
REa	
REa, A	
REa, A	
A	
REa, A	?same as A12M2
REa, A	
Ch, D	
REa, A	
A	
REa, A, Fd	
REa, REb	
REa, REb	
REn, REb	
REa, A, H	
H, REa, A, Ren	
F, S	
Psh, H, REa, A	fused with FKHR in rhabdomyosarcoma
A, REb, REa, Fd	same as SRC2
Fd	
A, Psh	
F	theta = 0.03 with RH
F, REb	linked to RH; 1p34.2-p33
F	
F, D, Fd, A	Order: 1pter--D-C-E--cen
F, D, Fd	alternative splicing
F, D, Fd	
F	
RE, A	
A	aberrant in 3/26 neuroblastomas
REb, A	
A, R, Psh	
REa, A	
R, A	
REa, A	

A, REa	
REa, A	
A	
REa, RE	
Psh, A	
REa, A	
D	
REa, A	
A, REa	
A, F, Fd	3cM proximal to RH
LD	
A	
H, A	
S, H, Fd, F, A	
Ch, F, D	
A, REa	
A	
REa, A, Pcm	
F, Fd, D	some linkage studies negative; see 9p
Psh, A	
A	
A, H	
A	
H	
REc, A	
A	
A	
Fd	some families unlinked to 1p
S, LD	
REa	
H	?same as PLA2B
Fd	
REa, A, Psh	?pseudogene on 3p14-q21
REa, A, REc	
A	
REa, A, Fd	
A, T	
REa	
A	
Psh, A	
A, REb, Psh, REa	
A, H, Ch	
REa, A	
A	

REa, A, Fd	probably in 1p33
A	
REa, A, F, REn	
REa, A	
A	
A	pseudogene PAGB on 9p22
REa, Psh, A	
S, F, R	
A, REa	
REa, A	vasoactive intestinal contractor (VIC) = mouse and rat equivalent
S, F, R, A, REa	8cM distal to RH; pseudogene on 2q31-q32
A	
REa, A	
A	
A	
S, A, REa	
A	
REa, A	
A	
REa	
REa	
A	
A	
REa, A, REn, Fd	
Psh, A	
REa, A	
A	
F, A, Ch, Fd	
F, A, Ch, H, Fd	
REa, A	formerly at 1p13
Fd	
REc	
A	
Fd, LD, REn, A, REc	
A	
REa, REn	<800kb from MYCL1
REn	within about 250kb of SCL
Ch, RE	proximal to MYCL1
S, R, F	
REa, A, H	
REb, A	
REa, A	
REa	
REa	

REa, A, Fd	related gene on 9p24
A	
A	
A	
REa,A	
Psh, A	
REa, A	pseudogene on 3q24
A	
H, REc, R, Fd	
RE, A	
F, S, R	distal to ACADM; formerly 1p22.1
REa, A	
REa, A	
REa, A	
REa, A	
A	
S	1 of 2 polypeptides
Psh, A	
REa, A	
Psh, A	
REn	130bp 5' to NRAS
REa, A	
REa, A	nonsense mutations responsible for absence of enzyme in man and
S, REb, Fd, A	
REa, A	
REc, A	
F, A, REa	multiple amylase genes
REn	
REn	
F, A, REa	
F, A, REa, Fd	distal to NGFB
REa, H	linked to AMY in mouse
REb, A	
REa, A	
REa, A	
REa, A	mapped probably in error to chr.13
R, REc, Rd	
Fd, REn, H	
REa, A	incorrectly assigned to chr.5
REa, A	
H, REa	coamplified with AMPD1 in cancer cell line
A, REa, H	incorrectly assigned to chr.5
Fd	
Fd	

A, REa, Fd, Psh, REn	
Psh, A, REn	
Psh, A, REn	
A, REn, Psh	
Psh, A, REn	
A	pseudogene on 14q24.3
A	
REa, A	cen-CD2-NGFB-NRAS
Psh, A	
REa, A, RE	
Fd, A	
A	
REa, H, A, Fd, RE	same 310kb fragment as TSHB;
S, REa, A, RE	?same as MSK1; gene cloned
REa, A	
REa, A	
A	
REa, RE, Fd	centromeric to NGFB
A	
REa, REb, A, Fd	
REa, A	
Fd	
REa, A	
REa, A	
Fd	?mutation in GJA5; same as 108770
REa	
REa	
D	
S	
Fd	
Psh	probably cluster of FMO genes at 1q23-q25
REa	
REa	
H	
H	?near REN
A	?mutated in CAE1
S, REa	probable cluster with CAGRB, CACY, CAPL
REa	
REa, RE	
REa	
REc	
REa	
Psh	
REa	

F	close to FY
V	
REa, Fd, A	
REa, A	
REn, Fd	
A	
REa, A	
REa, A, REn	
S, A, D	
REa, A	
REa, A	
REa, A	100-200 histone genes; some on chromosome 6 and 12, as well as
REa, A	IL6R-like gene on chr.9
REa, A, REn	
REa, A, REn	
REa, A	
A	
H	between GBA and TSP3
REa, A, Fd	5cM proximal to SPTA1
REa, A	
A, REc	
Ch	t(X;1)(p11;q21); fused to TFE3
REb, A, REn	
REn	
REn	
REa, H, REn	
REn, A	
A, REn	
REc, A, Fd	
H, REn	on chr.3 in mouse
REa, A	
REa, A, Fd	17cM proximal to FY
H	
RE	
A	
A	
A	
F, Fc, Fd, A	by A, 1q22-q23
REa, A	
REa, A	TRK = chimera of TPM3 and NTRK1
REa, A, REn	
REa, A	
REa, A, REn	about 7 SPRR2 genes
REa, A	

REa, A	prob. pseudogene
REa, A, REn	
S, R	
REa, A, Fd	probably close to CRP
REa, A, Fd, RE	
REa, A, Fd, RE	
A, REa, REn	genes A, B, C, D in cluster
A, REa, REn	
A, REa, REn	
A, REa, H, REn	
A, REa, REn	
REa, A	
Fd	
REb, REn, Fd, RE	FCG2 and FCG3 within 250kb
A	
REa, A	
A	
H	
Fd	
REc, R, Fd	
A	?mutant in amelogenesis imperfecta
A	
REa, H, A	
A	
REa, A	?functional; others on 4q35, 11p14.2-p14.1, 14q32.3
A, RE	cluster = FLG, IVL, LOR, THL
REa, A, REn	
REn	within 410kb of CD48
REa, A	
REa, REn	
REb, A, F, Fd, D	
H, REa, A	closely linked to Sap in mouse
A	
REa, A, REn	
A	
REa, REn, A	
H, A	
REa, A	TRK = chimera of TPM3 and NTRK1; NEM1 to 1q21-q23 by Fd
REa, A	
REa, A	
REa, A, REn	
REa, A	
REa, A, Fd, REn	Order: F5-GRMP-LYAM1-ELAM1 in 300kb segment
REa, A	

H, A	probably on 1q close to CD32
REb, REn	FCGR2A and FCGR3A within 250kb; ?same as neutrophil-specific
Psh, A, REc	pseudogene on chr.9
Ch, A	t(1;19)
A	
REa, A	chimera of TPM3 and NTKR1; others put in 1q32-q41
F, D, A, REa, Fd	~17cM distal to FY
Psh, A	
REn	
Fd	
A, REn	
REn, A	in same 300kb segment as LYAM1, ELAM1
REa, A	
REa	
REa, A	
A	
REa, A	
A	
A	
A, REa	
REa, A	fused with MET in chemically induced tumor
REa, REb	
A	
A, Fd	
Fd	
H, REa, A	
REa, A, Fd	
REa, A	
A	
REa, A, Fd	closely linked to REN
Fd, LD	?mutation in LAMC1 or LAMC2
A	
REa, Fd	at least 3 genes, ?linked
REa, A	
A	
A	
A, S	
Fd, A, RE	
REc	in same 165kb YAC as F13B
Fd	
REa, A	
Psh, REc, REn	
REa, A, Fd	
A	

	MCP, CR1, CR2, DAF, C4BP in 750kb segment; pseudogene C4BPAL1
F, REa, A, RE	same RE fragment as C4BPB
RE, A	
H, REa, A, Fd	in mouse, mutation causes muscular dysgenesis
REa, A	
Fd	
F, REa, A, RE	
F, REa, A, RE	
REa, A	
A	
F, REa, RE, H	
Fd	
REa, A, REn	
Psh, A	
REa, A, D, Fd, Ch	~24cM distal to AT3
REa, A, F	
REa, Fd, A	
Ch, Fd	del (1q32-q41); linked to REN
A	
REa, A	
A	incorrectly assigned to chr.22
Psh, A	
A	
A, Ch	
A	
S, D	
S, D	genetic independence of GUK1 and GUK2 unproved
REc	
Fd	
REa, A, Fd	
Fd	unlinked = USH2B
A	in 1.0-1.5Mb with HOXHB24
A, Fd	
A	
A, REa	
REa, A	?processed pseudogenes on chr.13 and 14
A	
REa, A	
S, R, Fd	1q25, 1q32 = conflicting localizations
V	
REa, A, Fd	
A, REa	
Fd	some families not linked to 1q42-q43 or 14q23-q24
A	

REa	
REa, H, A	
S, R, D, Psh	
A	
REa, A	
A	25-30% at 1q31 (RN5S3@)
Fd	
A	
Psh, A	
A	
REa, REb	
Psh	
Psh	
REa	
REa	
REa	
REa	
REa	
REa, REc	
Psh	
REa	
REa	
S	
S	
REa	
REn	in IVS1 of CHC1
REa, A	
A	
A	
D, S, A	
REa, A	
REa, A	
REa	?close to ACP1
A	
REa, A, Fd	formerly put on 2p13
REa, A	pseudogenes on 1p, 1q, Xp
REa, A	proximal to APOB
REa, H	close to NMYC in mouse
REa, A	1 gene for liver apo-B100 and gut apo-B48; Ag linked
REa, A	
Fd	
A, Fd, REc	
A, Fd, REc, Psh	

A	
Ch, H	
A	
A	
REa, A	
REa, A	
Fd	symbolized DFNB6 by authors
REa, A	
REb, A	
REa, A	
S, REa	?on chr.8
Fd, REa	
A	
A	
REa, A	
S	
Psh, A	
REa, A, S, D	proximal to 21.01
Fd	linkage heterogeneity
Ch, REc	
A	
Fd	
A	
REa, A	
Fd	
A, Fd	
A	pseudogene on 5
REa, Fd, A	
Fd	
Fd	
REc, H	0.5 Mb from MSH2
S, D, A	proximal to APOB
A	
REa, R	
REa, A	
LD, Fd	
REa, A	
A	
Fd, A	
REa, A	
Psh, A	
A	
A	
A	

REa, A	
REa, A	
A, Psh	
REa	
REa, A	distal to IGK
REa, H	pseudogene also on chr.2
REa, A	
Fd	no recombination with TGFA
A, REa	2p11.2 by high resolution in situ mapping; order: pter-C-J-V-cen
REa, A	25+ genes in 4 classes; orphon gene 1.5Mb telomeric of IGKC
REa, A	5 genes
REa, A	
RE	
REa, A, REc	
A, Psh, REc	
A	
A	
A	
REa, A	SFTP2 in previous listing
REa	
A	
A	
A	
REa, A	
REa, A	
Fd	
REa	7 pseudogenes on 4, 6, 7, 11, 12, 13, and 22
Fd	
REa	
REa	
REa	
REa	
Psh, A	
Psh	
H, Fd	
Fd	
REa	
REa, A	
REa, A	
A	
REa, A	
A	
A	
REa, A	

A, REa	?on 6q21-qter
REa, A	
REa	
Fd	with eye defect, separate entity
REa, A	
REa	
H, REa, A	tight linkage to IL1B in mouse
REa, A, H	
Psh, A	
REa, A	
A	
REa, REb, A	
A	
A	
A	
REa, Fd, A	
A	
S, A	
REa, Fd, A, Psh	
Pcm	
S, REa, A	
REa, A	
REa, Pcm, A	4 related genes on chr.2
REa, A	
H, Psh, A	
A	
REa, A	
H	
A	pseudogene on 19
REa, A, Fd	
REa, A	in same 35kb segment as COL5A2
REa, A	very close to COL3A1
REa, H, A, Psh	
H, Fd	
A	
REn	13kb 5' to HOX4I
REa, H, A, RE	linked to Km in mice; order: D11, D10, D9, D8, D4, D3
RE	
A, RE	peak at 2q32.3 by A
RE	
REa, RE	
RE	
RE	
RE	

REc	upstream from HOX4A-G
REc, Fd	upstream from HOX4A-G
Psh, A	
REa, A	
REa, Ch, A	
Fd	
REa	
REa, A	
REa, A	
REa, A	
REa, A	
REa, A, H	
REa, A	
Psh, A	
A	
Ch	
REa, A	
S, D	
REa	
REa, H	
REa, A	
A, REn	
A	
RE	
A	
A, REn	
H, REa, A, LD, RE	linked to Idh-1 in mouse
H, REa, LD, RE	tightly linked to CHRND by RE
REa, A	
A	
Fd	
F	linkage to chr. 16 markers?
REa, A	
REa, A	
REa, A	
REa, A	
REa, A	
REa, A	reactivated in Coppock-like cataract
REa, A	
Fd	
Fd	
REa, M	near MYL1
REa, RE	proximal to PAX3
REa	

S, D	
A	
S, REa, A	
Fd	
Ch, RE	
A	
REa, A	
REa, Fd, A	urea cycle enzyme
REa, A	
REa, A, Psh	
A, REa, Psh	
Ch, Fd, H, A, Psh	proximal to ALKI
REa, R, A	included in YAC contig spanning 2q33-q34
REn, REc, Psh, H, Fd	within 220 kb of VIL1
A	
REa, A	
REa, H	
A	
A	
REa, A	
A, Psh, Fd	
A, REa	
REa, A, RE	noncollagenous domain = Goodpasture antigen
REa, A	head-to-head with COL4A4 in same YAC
REa, A	
A	
A, REa, RE	close to ALPP; proximal to PAX3
A	
REb, REa, A, RE	
REa, A	
Ch, D	?in contiguous gene BDMR syndrome
Ch	
REa, A	close to CRBP1
A	
REa, A	
REa, A, Fd	
A	
REa	
Psh	
REa	
REa	
REa	
S	
Psh	

REa	
REa	
REa, Psh	
Psh	
S	
REa	
REa	
S	
REa	
REb, REa	
REa	
REa	
A, Psh	3p25 by others
REa, H	
REa	
REa, A	
Fd, D, RE	
REa, A	
M	
A, RE	within 625kb of XPC
A	
REa, Fd, A	
REa, A	
REa, A, RE	incorrectly put on 5 by M
Fd	
Psh, A	
A	
A	
Fd	
REa, A	
REa, A, RE, Fd	?second gene ERBA-beta within 120kb
Psh	
A	
REa, A	Err:508
A	
Fd, A	
REa, A	
REa	mouse gene close to Cck
Ch, D	centromeric to ERBA2
Rea, A	
A, REa	
A	incorrectly assigned to 2q37
A	
A, REn, Psh	

REa, A	
REa, A, Psh	
REa, A	
S, EM, A	3p14.2-p11 excluded
REa, A	
Fd, A	
A	
REc	
REc	
REn	close upstream of COL7A1
A	
Psh, REa	
REa	
A	
A, H	
A, H	
Fd	
S, REa, REn	
REa, A, R, Psh	
Fd	
Fd	
REa, A, D	
A	
REa, Psh, A	
A	
REc, R	
REa, A	
REa, A	on 12p13-p12, GNAI2L
REa, A	
REa, A	
REn, H	
Ch	
RE	SCLC1 tumor suppressor gene
Fd, LD	
REa, A	
Psh, A	
A	
A	
REa, H	
REa, A	
REf	deleted in RCC
REa, A, Fd	
Fc, Ch	near FRA3B
REa, A, Fd	

Fd	
REa	
REa	
REa, Psh	
REa	
REa, A	
Fd	
REa	
REa	2 protein S genes in primates
Fd, A	
REa, H	
REa, H	
REa, H	
REa, Fd	
REa, H	
Psh	
H	
REa	
S, REa	
A	
REa, A	
REa, A	
A	
A	? on chr.4 by flow-sorting
Fd	?mutation in PCAR1
A	
S, A	
Fd	
Fd	
A	
S, A	
REa, A	
REb, A	
REa, A	
REa, Psh, A	
A	
A, REn, REa	
REa, D	
S, H, REa, D, A	
Fd	
REa, A, D	pccB complementation group
REa, A	close to CRBP2
REa, A	
Psh, A	

Fd, H, Psh, A	
REa, A	
Fd	
Fd, REa	15cM from RHO
F, H, REa, A	~15cM from TF
REa, A, Fd	
REa	
REa	
Fd	frequent in Finland
REa, A	
REa, A	
REa	
REa	close to CRBP1
Ch, Fd	
A	
A	
A	pseudogenes on 9p13, 9q13
Ch	
REc	mapped previously to chr.1
REa, A, Fd	
A, Ch, REc	
Ch, REc, A	cen--EVI1--MDS1--EAP--tel
Ch, REc	fused with AML1 in t(3;21)
Psh	
F, D, A	distal to CP, TF
A, Psh	
REa, A, Fd	
S, H, REa, A	
REa, A	
REb, A	
Ch	
REa, A	
A	
A	
F, S, D, REa, A, REn	linked to TF, CHE1; ?order = cen-TF-CHE1-AHSG
Ch, A	
Psh, A	
A, REn	Order: cen-EHHADH-[KNG(HRG/AHSG)]-BCL6-tel
REa, A	
REa, A, Fd, REn	
Psh, A, REn	
Psh, A	
A	
Psh	

REa, A	
A	
REa, H, A	
Ch, RE	fused with HMGIC
REa	
A	
Fd	
S, A	
REa, A	
REa, A	previous assignment to chr.18 in error
S	
Psh	
REa	
S	
REa	
REa	
REa	
REb	
REa	
S	see chr. 11
Psh	
Psh	
REa	
REa, REb	
REc, H	
Fd	
A	
REn, Fd	
RE, H	
Fd	distal to D4S10
REa, A, S	
A, REn	?involved in Wolf-Hirschhorn syndrome
RE	
REa, A, Fd	
Ch	
Psh, A, Ch	?involved in Wolf-Hirschhorn syndrome
Psh, Fd	
REa, A, D, Fd	
Fd	multiple mtDNA deletions
REa, A, REc, R, Psh, Fd	pseudogenes on 2p11 and 1q21
Fd	
Fd	
A	

Ch	
S, A	
S, A, REa, D	
Psh	?pseudogene on 20
A, Psh	
A	
Psh	cluster with GABRA2, B1, G1
S	
REa, Psh	
H, REa	
Psh, REl	
A	
A, Fd	
Fd	?mutation in KDR
A	
A	
Psh, A, REn	less than 7kb from PF4
S, EM	
REa, A, F	
REA	
Fd	
REn, Psh	10kb 3' of AFP
H, A, Fd, F	order: 5'-ALB-3'--5'-AFP-3'
F, A, REa	linked to GC
F	linked to GC, which is probably between DGI1 and JP
REa	
Fd, REc	
F, Fc, H, D, Ch, REa, A	4q13-q21.1 by in situ hybridization
Psh, A, Fd, LD	
REa, A, REn	?mutant in TAPVR1
REa, A, H, Ch, H, REn	same 700bp segment as PDGFRA
S, REn	bifunctional enzyme; ade-D; 625bp from PPAT
A, REa, REn	same 700bp segment as KIT
A	
S, H, A	
REa, A, REn	6kb from PF4V1
A, REa, REn	same region as PF4 and IP10
REn	in cluster with PPBP, PF4, and PF4V1
A	?pseudogene on chr.12
REa, A	3 genes in a 15kb segment
REa, A	
Psh, REn, A	cluster in order B9--B4--B15 in 195kb
Psh, REn, A	
Psh, REn, A	

REa, A	
H	tightly linked to Areg in mouse
F, Fd	~11cM from GC
A	
REa, A	
Psh, A	
Psh, A	
REa, Fd	linked to D4S10
REa, A	
Psh, REa, A	
Fd, REn, Psh	?mutant in DGI1
REa, A	
REa, A	apparently cluster of 3 GRO genes
REa, A	
REa, A	
REa, A	
A, REa, F	?involved in monocytic leukemia with t(4;11)(q21;q23)
Ch	fuses with ALL1
F, S, D	
Fd	
Fd	
S	4q24-qter (M. Smith)
S, REa	
H	sheep chr.6
REa, A	
A, REa	
REa, REc	
REa, A	
REa, A, Psh	placed at 4q12 or 4q13 by some
A, Psh	
Psh, A	
REa, REb, A	ADH1,ADH2,ADH3 loci for alpha, beta, and gamma chains
REa	
REa	
REa	
REa, A	
REa, A	
REa	
Psh, A	
A	
A	
REa, A	
REa, A	

REa, A	
A	
REa, H, F, RE	linked to ADH3; cen-ADH3-EGF-IL2-qter
REa, Fd, A, RE	40kb distal to EGF
Fd	?allelic to Rieger syndrome
Ch, Fd, RE	
REa, A	
REa, A	many alternate names
Fd	
Psh, A	
REa, A, F	
REa, A, D	
A	
RE, REa, D, LD	likely order: gamma-alpha-beta
RE, REa, H, D, LD, A	
RE, REa, D, LD, A	4q31 by A; proximal to GYPB/GYPA
F, REa, H, RE, D, LD, A	linked to MN
F	linked to MN
REa, A	
F, Fc, AAS, EM	
REn, A	tandem: 5'-GYPA-GYPB-GYPE-3'; ?4q31.1
F	
F	~25cM from MNSs
F	?linked to MNSs
F, Fc, AAS, EM, A, D, Fc	male lod = 3.79 at theta 0.32 vs. GC; probably 4q28.2-q31.1
A	
A	
REa, A	
A	
A	
REa, A	
REa, M, A	
REa, A	
A	
A	
A	
A	
S, F, D, A	
Psh, A	
REa, A	
REa, A, D	
A	
REb, A	
A	

REa, A	
REa, REb, A, Fd	
A, H, Fd	not closely linked to MNS
REn	
Fd	
REa, A	?functional
A	similar to F11
A	
REa, Psh	
REa	
Psh, H	?on 4p16.2-p15.1 by H
REa	
REa	
REa, H	
REa	
REa	
S	
S	
H	linked in mouse to Adl-3
S	
REa	
REa	
M	
S	
Psh	prob. in cluster with other UGT2B genes in 4q13
S	very close to LARS
A, REa	
Psh, A, Fd	
REa, Fd	pseudogene on chr.10
REa	
A	
A	copy on 3q29
REa, A	pseudogene on X
REa, A	
REa, A	
A	pseudogene on 5q13 in SMA region
S, REa, A	like HMGCR, regulated transcriptionally by steroid;
REa, A	
REa, A	
H, A	
A, Psh	
A, H, RE, Fd, LD	linked to C7 in dog, marmoset
A, H, RE, Fd, LD	linked to C6 in dog, marmoset
REa, A, Fd, LD	cluster MACII with C6, C7

A, REa	
REa, A	
A	
A	
A	
REa, A	
REa	
REa, A	related to GHR
S	linked to LARS
Fd	
S, H	
Fd	between D5S395 and D5S407; proximal 5q
H	
A	
REa	
REn	5' to DHFR
S	
Ch	or 17q23
REa, A, Fd	
S, REa, H, D	5q23 = conflicting localization; to other
Psh	
Ch, Fd	cosegregation with partial trisomy
A, REa	
REa, A	
A	
REa, A	
REa, A	
REa, A, H	
Psh, A	
REc	2 copies
Fd	
REn	?involved in SMA1
REn	?involved in SMA1
REn	
A	
A	
REa, A	
S, Ch, D	
A, Fd	
Fd	
S, Rea, R	between D5S427 and D5S401
A	
REa	?pseudogene
Psh, A	

REa, A	
REa, A	
REa, A	
A, REa	
A	
REa, A	
A, REb	
A	
REn, D	
D, Fd, REn	150kb distal to MCC
REa, A	
REa, A	
REn	within 100kb of APC
REa, A, H	
A	
REn	
Fd	
S, M	
Fd, A	
S, Psh, A	
A	
REa, A	
A	
H, REa	
A	
H, A	
REa, A	
A, REn	
A, REa	
REa, A, D	
S, REa, Fd, H, A, D, REn	
REn	
REa, A	
A	
REc, Fd	
REa, A, REn	between GMCSF and FMS; PDGFRB-3'-500bp-5'-FMS
REc, H, REn	100kb distal to CSF1R
Fd	
Fd	
S	
Fd	
REa, A	
REa, A, RE, Fd	order: cen-CSF2-CSF1-FMS-qter
REa, A	

Fd	
REa, A, H, RE, D, Fd	9kb from CSF2; order: cen-5'IL3-5'CF2-qter
REa, A, RE	
Ch, A, RE, REn	< 310kb from IL4
REa, A	
Fd, REa, A, REn, D, Ch	
A	
REa, A	originally called TCF-1
A	
REn, R, Psh	in alpha/beta/gamma cluster
R, REn, A	between GLR1 and GABRA1
REa, Fd	
A	
REa, A	
REa, REn, A	
REa, A	
S, REa, Psh, A	pseudogene on chr.3
S, REb, REa, A	
Fd, R, A	
A	
Fd, REn	distal to APC
REa, REn	
Ch, Fd	prox. to SPARC
REn	
REa	
S, REa, A, Fd, RE	
REa, A, REn	
REa, A, RE	
A, REa, R	
REa, A	
Fd	
REa, A	
REa	?pseudogene
REa	?pseudogene
Fd	
REa, H	
REa, A	FMS2 is 5' end
A, Psh, REc	near border with 5q35
A, REc	
A	
REa, A	
A, R	
Psh	
A, R, Fd, REn	in same 200kb as GABRG2

Fd, REa, A	
REa, A	
S	
REa	related locus on chr.13
A	
A	
Ch, A	fused to ALK in t(2;5)
Psh, A	
REa, A, Fd, REn, R	same 300kb fragment as GRL
REa, A, R	distal to DRD1
A	
Psh	
REb	
REb	
S	
H	close to Ctla-3 in mouse
REb	
REa, A	
REa, A	
REa	?relation to ZNF4, ZNF5
Psh, R	
REa	
REa	splice variants result in DP I and DP II
REa, A	
REa	
Fd, Ch	linked to F13A
A	
Psh, R, A	
F, Fd, A, D	
F	10cM distal to F13A
REa, A, Fd	
REa, A	
F, Fd, A	
Ch	fused with CAN in t(6;9)
REb, A	
Fd	
REa, A	
REa, A	
REa	
REb, REa	male enhanced antigen
REa	
REa	2 of 12+ RNTMI genes are on chr. 6
REa	

REa, A	
REa, A	
REa, A	
REa, D	?between 6cen and GLO1
Psh, A	
A, Psh	
A	
A	
A	
REa, A	
REa, H	
A	
RE, A	at junction of classes II, III MHC
F, Fd	
F	lod = 3.612 at theta = 0.0 with HLA
F, RE	no crossover with C2; less than 1kb from C2, 30kb from C4;
F, LD, RE	no crossover with BF
F, H, RE, Fd	order: HLA-B, C2, BF, C4A, C4B, CYP21, DR
F, H, RE, Fd	10kb from C4S
REa, A, REn, Fd	45kb centromeric of HLA-DPB2; 3'--5'-cen
REc	
REb, A	
F, RE	linked to C2, C4, BF; 2 loci, A and B; only B active
Fd, REa	
RE	
RE	
RE	
RE	5 BATs in 160kb segment including also TNFA, TNFB
RE	
REn	
REl	
REl	
Fd	
F	closer to HLA-A than HLA-B
REn	
A	
LD, F	
REn	
F, S, A, RE, Ch, D, Fd	class I distal to class II
F	HLA-A, -B, -C, -6.0 = class I
F, REn	~85kb from HLAC
F, REn	
REn, Fd	
D	

D	
RE	
F, RE	2 different alpha, 2 different beta chains
F, RE	
F, RE	1 Dx alpha, 1 Dx beta; 1 DC alpha, 1 DC beta chains
F, RE	
F, RE	1 alpha, 3 different beta chains
F, RE	1 alpha, 1 beta chain; DZ, DR, etc. = class II
REn	
REc, RE	
REc, REn	
F	
F	between HLADQ and GLO
S, REa, A	also 14q22-q24, chr.21, and at least 1 other chromosome
REn	
F, LD	?linkage or association, with HLA
F	
F	
F	in B/D segment
H, F	HLA-linked
REn	just centromeric to TAP1
REn	between TAP1 and TAP2
REn	
REa, A, RE	cen-DR-21OH-C4-BF-C2-TNF-LTA-HLA-B
REn	
REn	
F	near HLA-A end
REa, A, Fd	
A	
H, F, A	
REn	
REa, A	
RE	in class I MHC region
REa, Fd, A, REn	OTF3L on 12; ?related pseudogene on chr.8
A	
F	?linkage or association, with HLA
F	near HLA-D
REn	between C4 and BF
REn, Fd	between HLA-DNA and HLA-DMA
Fd	
REn	
F	?linkage or association, with HLA
H, REa, Psh, A	
REn	~7kb telomeric to TAP2

REn	tel-TAP1-LMP2-LMP1-TAP2-cen
REc	
REa, A, RE	5'-LTA--TNF-3' in 7kb segment (pter-cen); 210kb from HLA-B
REa, D	
REn	
LD	
Psh, A	
F, S, Fd	~3cM proximal to HLA
F	?linkage to HLA and GLO1
REa, R, A, REc	expressed only in testis at same time as ZNF76 (day 20 after birth)
REa, R, A, REc	same 300kb fragment as TCP11
RE	10kb 3' from TNFA
REa, F, REb	cen-PGG-GLO1-HLA
A, Fd	
REa, D, Fd	
A	
REa, R, REc, Fd	
Psh, A	
F, Fd	linkage uncertain
Psh, A	
Fd	human gene cloned with mouse cDNA mapped to chr.13
A	
REa, A	
REa, A	digenic RP with ROM1
A	
Ch, Fd, D	
REa, A	pseudogene also on 6p21
A	
Psh, R	
REa, A, F, D	
REa, A	
A	
H	
REa, A	
REa	
REn	
A, REa	
REa, A	same transcriptional unit as BPAG1
REa, Psh, A	
A	
A	
A	
Psh, REn	?6p21
Psh, A	

Psh, A	
A, REa	
S	
H	?linked to MHC
F	?linked to HLA; ?same as TUBB
Fd	
F	linked to HLA
Fd	
Fd	
Fd	
S	
S, F, OT	
A	
Psh	?on 2q12-q21
A	
REa, A	
Ch	del(6)(q13-q15)
Fd, A	
Psh, A	
REa, A	
Fd, LD	
REa	
Fd	
Psh, H	
Psh, H	
S	
REa, A	
A	related to heterogametic sex
A	
A, Psh	pseudogenes at 15q21-q22; Yq11
Psh, A	
REa, A	proximal 6q21
Fd	
A, REb	
REa	pseudogene AMD2 on Xq28
A	
REa, A	
REa	pseudogene on chr.5
Psh	
REa, A	shared with LH, FSH, TSH
F	
H	
REa, A	
A	

REa, A	
REa, A, Fd	muscular dystrophy in mice
A, H	
Fd	
REc	
REb, REa	monomorphic
Fd	
Fd	
REa, A	
REa	
REa, A	
S, A	?both 6 and 18 required
Fd	
REa, A	proximal to MYB
REa, F, Fd, A	near dy in mouse
A	
Fd	
A, REa	
Ch	
REa, A	coamplified with MYB
Fd	
F	linked to PLG
REa, A	
S, D, REa, A	
A	encoded on strand opposite TCP1
A	second signal at Xq22, pseudogene?
REa, H, A, Fd, REn	tightly linked to PLG; ~15cM proximal to TCP10; overlap with
REa, A	behaves as a tumor suppressor
REa, A, LD, F	20cM from TCP10A
D	loss of heterozygosity
REa, A, REb	
REa, A, F, Fd	absent in mice
Ch, A	distal to OVCS
A	
A, Fd	
REa, A, Fd	
REa, A	
REa, A	
Fd	
S	
S	
REa	
REa	
REa	in FACIT family

H	
H	
REa	
S	
S	
S	
D	uniparental disomy
S	
H	
Fd	
S	
REa	
REa, A	
REb, A	
Ch, A	fused with EWS in some Ewing sarcoma
A	
A	
A	
REa, A	
REa, A	
REa, Psh, A	
A	
Ch	
REa, A, Psh	
REa, A, Fd	
Fd, Ch, A, REa	
Fd	?allelic to RP9
Fd	
S, D	
REa, H, A	
Fd	
A	
Fd	
A	
A	
Psh, A	
REa, A	
A, REa, H, RE	order: A13, A11, A10, A9, A7, A6, A5, A4
RE	homolog of Drosophila lab
RE	homolog of Drosophila zen1, zen2
A, REa, H, RE	homolog of Drosophila Dfd
A, REa, H, RE	
A, REa, H, RE	
A, REa, H, RE	homolog of Drosophila Antp

RE, Ch	homolog of Drosophila Abd-B; fused to NUP98 in myeloid leukemia
A, REa, H, RE	
A, REa, H, RE	
RE, Fd	
REn	at 5' end of HOX1 cluster
REa, A, Ch	multiple V genes, two J-C duplexes
Psh, Fd	proximal to TCRB
REa	
REa	~20 pseudogenes also
Ch	
REa	
Psh, A	
REa, A, Fd	
Fd	
Psh, A	
REa, A	
A	
REa, A, REn	
REn	tail-to-tail 20kb from IGFBP1
S, A	
REa, A, Fd	amplified in glioblastoma
A, REa	
REa, A	
Psh, A	
REa	
S	
S, Fd, D, REa	same as oncogene ERBB
S	
REa, A	presumed pseudogene on 11
REa, A	?pseudogene
REa, A	
REa, A	
Ch	
Fd	
REc	
S, REa, A	
F	linked to KEL
H	
F	linked to KEL
A	
REa, A, F, Fd	
REa, A	
A	
A	

Fd	
Ch	
A	
REn, Ch	
REa, A	
A	
Psh, A	
Ch	
REa, A, REb, Fd	close to COL1A2; no recombination
REa, A	
Psh, Fd, A	
REa, A, H	
A, REc	
A, REc	
REa, REn	30-70kb from EPO
S, REa, A	temperature sensitive G1 mutant
REb, A, REa	
REa, A, REb	
RE	within 500kb of MDR1
REa, H	
S, D, EM	
Ch	
A, Psh	not deleted in Williams syndrome
REa, A	
REa, REb, Fd, A, D	
D	
A	
A	
Psh, A, Fd, REb	blood group YT (112100) = epitope of ACHE
REa	
REa, A, D	
REa, A	
A	
A	
REa, A	
F, Fd	Order: COL1A2-D7S15-PON-CF
Fd, A, REc	
A, REc	
A	
A, REc, Fd	
REa, Fd	
D	formerly neutrophil chemotactic response
REa	
REa, A	

S, REa, D, A	~17cM from CF
REa, D, Fd, A	
Fd	
Fd	
REa, A, F	~1.2cM from CF
Fd	
A	
C	isolated by CMGT with MET
A	
REa	
A	
Fd, REc	between D7S480 and D7S514
REa	
A	
REa, A, Ch	?7q22
F, Fd	distal and 5' to MET
REc, REn	
H, REa, REc, A	in mouse cen-Cola-2-Met-ob-Cpa-Tcrb-tel
REa, A	
REa, A	
Psh, A	
A	imprinted maternally
Psh, A	earlier location = 7q31
REa	
REa, A	
REa, A	
REa, Fd	both CPA and TRY1 = serine proteases
REa, Fd, REn	
Ch	
A	
Fd, REa, A	close linkage to CFTR
REa, A	
REa, A	
A, REa	pseudogene BRAF2 on Xq13 or 7q
Psh, A	
A	
REa, A	
H, REa, Fd	
Fd	
REa, A	7q32 by A; cluster of V, D, J, and C genes; many V, two D-J-C
A, REa, Fd	
REa, A	
Fd, REn, A	
REa, A	

A	
REa, A	
Ch, Fd	
Fd	
REa, A, Psh	
A	
Fd	
Fd, Psh	separate from TPT1
Fd	
Psh, REc	
REa, R, C	
S	
Psh	
A	
REa	
S	
REa	
S	
Psh	
REa	
S	
REa	
REa	
Fd	
REa	
REa	
D	
REa, A	
REa, A	acetylation polymorphism
Psh, A	
REa, H, A	probably close to CLU
H	
REa, A	
REa, A	
REa, A, Psh, D	13q14 by rat probe
REa, A, Fd	
REa, Fd, A	~11cM distal to LPL
REn	
A, REn	
Psh, A	
Psh, A	
REa, Psh, A	related FNTAL1 on 11, FNTAL2 on 13
REa, A	
REa, A	

S, D	
REb, A	
REc, Fd	.03cM from NEFL
H, REa, A	1kb 3' to SFTP2
REa, A	?NFI on 2cen or 7q
REc	
REa, A, Fd	
REa, REb, A, RE	
A	
REc	
REa, A	
REa, A, REb	
A	
A	
Psh, A, REc	pseudogene on 16
Fd, LD	
Psh, REa, A	
REa, A	
S, REa	pericentromeric
Fd	
F, Ch, D, REa, A, Fd, REb	
REa, A	
REa, Fd, A	
REa, A	
A, REa	earlier mapped ot 8q11
REa, A	
Ch	
Fd	
Fd	
Fd	?same as EGI
S	
C, A	
REa, A, REb	
REa, A	
REa, A	
REa, A	
Ch	12q13-q15 affected in subset
REa, A	
REa, A	
Fd	
Fd	
REa	
REa	
Fd, LD, REc, A, REa	

REc, Fd, Ch	
REc	
REa, A	block in progression through G1
REa, A, Ch	chimeric CYP11B1/CYP11B2 gene = anti-Lepore-like
REa	
RE	
S	gly(-)B
REb, A	not involved in CMT4A
REa, H, A	
REa, H, A	
REa, H	CA1, CA2 linked in monkey and mouse
REa, A	
Ch	fused with AML1 in t(8;21)
REa, A	
REa, A	
Fd	
REa, A	
Ch	inv(8)(q22.2q22.3)
REa	
A, H, REa	
A	
REa, A	
REa, A	
F	closely linked to GPT
Fd	?same as EBN2
S, EM, H, Fd, D	
Fd, LD	
A	
A, Psh, Fd	
RE, Ch	
A	
F	5cm from GPT
A, REa	
A, REc	
A, R	
Psh, H	
REa, A	proximal to MYC
A	
Ch, Fd	distal to TRPS1
Ch	contiguous gene syndrome involving TRPS1 and EXT1
Ch	proximal to EXT1
REa, A	cen-5'-3'-ter
REa, A, D	
A	

A, REa, REb	distal to MYC
REa, A	
REa, A	
REa, A, R	
REa	
REa	
H	
REa	
REa	
Psh	
Ch	
REa	
REa	
A	
REa	
REa	
REa	
A	
REa, A	
A	
A	
Ch	?chr.8 contribution to fusion gene
A, Psh	
S, D	
A	
Psh, REa, A	
Ch, A	
REa, A, RE	very close to IFF by Fd, LD; 15-30 genes
D	
D	
D	
D	
D	
D	
D	
D	
D	
D	
D	
D	
D	
Ch	fuses with ALL1
Ch	
S	
RE, D, Fd	

A	tandem with MTS1
Psh, A	
REa, A, Fd, LD, RE	distal to IFL; ?9p23-p22; IFF duplicate in some
Fd	
S, D	
Psh, A	
A	
REa, A	
REa, A	
Fd	
REa, A	
A	incorrectly mapped to chr.7
Fd, LD, REc	
Psh, R, A	
S, D, F	
REa, A	
A	
REa, A, Fd, Ch	
REa, A	
REa, A	
Psh, A	
A	
Ch	
A	
Fd	
REa	
Psh	
Fd	
S, H	
H	
REa, A	
A	in 9qh
Fd	
REa, A	
Fd	
Fd	
REa, A	
A	
A	
REa, A	pseudogene on 2q
Psh, A	
REa, A	
REa, A, Psh	\`like\' sequence on 10q23-q24
Psh, A	

REa, A	
REb, REa, A, D	
Ch, A	
A	
A	
A	
REa, A	
Fd	
A, Fd, REc	
A	
A, Fd	
R, Fd, D	
Fd	?allelic to NBCCS
Fd, D	
REa, A, RE, Ch	33kb from breakpoint in t(7;9)
A, Psh	incorrectly assigned to 3
Fd, LD	
Fd, LD	
A	
A	
Ch	
REa, A, H	
REa, A	
Fd	
H	
A	
REa, A	proximal to ABL
REa, A	processed pseudogene GGTA1P on 12q14-q15
A, H	
H	
REa, A	
Psh, A	
X/A	see chr.15
A	
A	
F, Fc	linked to AK1
F, S, A, REa	linked to ABO; ORM-ALAD-AK-ABO
S, D, REa, Fd	14 pseudogenes on 11 chromosomes
REa, H	
A	
F, A	tightly linked to ABO
REa, H, Psh, A	
A, REa, RE	40kb proximal to ABL
A, Psh	

REa	
REa, A, H	
A	proximal to ABL
REn	
REa, A	in cluster with SURF1
A	fused with CAIN in acute undifferentiated leukemia
REa, A	distal to ABL, CAN
REa, A	
REa, A	
H, A	
F, Fd	linked to ABO, ABL
H, A	
RE	
REa	
REa, Ch, A	fusion hybrid gene with BCR1 in CML
F, S, D, Fc	proximal to Ph1 break, 9q34.1; AK1 to ORM = 17cM
REa, A	
REa	
Ch	fusion gene with DEK in AML
REa, A	
Psh, A	
A, H, Fd	
REa, Ch, A	proximal to ABL
REa, REc	in 500kb of XPA
F, Fd	linked to AK1, ABO; no recombination with AK1
S, A, M	
REn	
F, S, REa, Fc, A	linked to ABO, AK1, ALAD
RE, LD	
REa, A, Fd	
Fd	tightly linked to COL5A1
A, H	distal to ABL
REa, A	
REa, A	
A	
REb, A, Fd	candidate gene for DYT1
H, A, REa	in mouse, close to Notch1; centromeric to ABL
Ch, H, A	
Psh, A	distal to DBH
Psh	
Psh	
S	
A	
REa	

REa	?close to LPC1 on 9q
S	see 6p21.3
REa, Psh, A	
Fd, LD	
M	
S, A, D	
A, H	
A	
REa, A	
Psh, A	
Psh, A	
REa, A	
A	
Ch	
A	
Psa, A	
REa	
Fd	
A	
D	
A	
REb, REa, F, A, S	
REa, A	
REa, A	
Fd	
A	
REa, A	
REa, A	
S, D, EM	
A	
S, D	
REa, A	
REa, A	
REa, A	
REa, A, Fd	
A, REn, Fd, Ch, D	
REn	
REa, A	
REa, A	
A, REa	
REa, A, Fd	near MEN2A
A	
A	
A	

Psh, A	
REa	
REa, A	
Fd	
REa, Fd	
REa, A	
REa, A	
D, REa, A, F	
A	
REa, A	
REa, A	
REa, H, A	
S, D, A, REa	10p11.2 conflicting assignment; ?2 loci on chr.10
A	
A	mistakenly assigned to chr.17
Fd	
Psh	
REa, A	
REa, A	
S, REa, A, D	
REa, Fd, REb	
REa, A	
A	
REa, A, Ch	
REa, A	10q25-q26 = conflicting site
A, REa	
A	
REa, A	
LD, Fd	
REa, A	
REc	
Psh	
Fd	
Fd	
Ch, RE, H	t(7;10) or t(10;4)
REa, A, Ch	
A	
REa, A, Psh	proximal to HOX11
REa, A	just centromeric of CYP2C cluster
Psh, A	
S, H	?close to GOT
Fd	
REa, A, Fd, RE	
REa, Fd, A	no recombination with ADRA2R

REa	
A	
A	
REa, A	4 genes in order: cen-C18-C19-C9-C8-tel
S, D, H, A	10q26.1 = conflicting localization
A, H	
REa, H, A	at least 2 genes; distal to GOT1
S, A	GOT1 and GSAS in same pathway
REa	
A, D	
REa, A	
REa, A	
REa, A	
H, REa	
S, REa, A	
REa	
REa, Psh	
D, H	
A	
A	
A, Psh, Fd	
REa, A	
S, REa, A, Fd	pseudogene at Xp11.2
REa, A	partial processed pseudogene
A	
REa, A	
REa, A	
A	
A	
Psh	
S, REa	chr.9, 18 by others
S	
REa	
S	
S	
REa	
Psh	
H	
Ch, Fd	partial trisomy
REa	
S	
Psh	
S	
REa, A	

A, Ch, Fd	
REa, A	
REa, A, RE	same 200kb fragment as IGF2
Fd	proximal to HRAS
REn	29kb 5' to HRAS1; divergently transcribed
Fd	
REn	
S, REa	
REa	
REa, A	
HS, REa, A	?11p12.08-p12.05
LD, AAS, F, Fd	
AAS	
RE	
RE	
RE	
RE	
S	pseudogene HRASP on X
REa, A, RE	separate gene for variant, 147410
HS, A, REb, Fd, D	5'--INS-12.6kb-IGF2--3'; cen-HBBC-10cM-INS-2cM-HRAS1-3cM-TH
A	
Fd	no recombinants with HRAS1, candidate gene
A	
D	
REc	
D	
REa, A	distal to IGHF2
S, REa, A	
A	
REa, A, Fd, RE	distal to HRAS1
A	
REa, A	
REa, A	
A	order: tel-HRAS-MUC6-MUC2-MUC5AC-MUC5B-IGF2-cen
REa, A, REb	closely linked to LDHB in other species; in man syntenic with
A	
S, D, REb, C, A	
REa, A	proximal to CALCA, HBB, BWS, PTH; ?11p14.3
REa, A	
REa, REb, A, Fd	~9cM distal to CALC1; distal to MYOD
A	
REa, A	
REa, A, REb, D, Fd, REn	same 220kb fragment as CALCB
A, REa, REb, D	

Psh, A	
R, A	
A, REn	4.5kb 3' of SUR
A	
REa, H, A, Psh	
REn, A, Fd, Psh	pseudogene = SAA3
REn, A, Psh	
A, REn	
Fd	Acadian and Samaritan variety
A, REn	within 50kb of LDHA
Fd, LD	
Fd	
REa	
A, REn	
Ch, D	
REa, A	
Ch, REc, Psh	fused with HOXA9 in myeloid leukemia
S, REa, A	
Ch	
REa, A	?functional
REa, D, REn	
REa, A, Ch	
A, REa, D	homeology with NRF3 on 12p; at p14 boundary
S, D, Fd	cen-CAT-WT1-AN2-pter
REa, A, D	in mouse Ly-6 = multigene complex
D, REa	distal to AN2
REa, REc	3rd rhombotin gene not on 11
REc	
REa	
Ch, Fd	mapping of aniridia to 2p (AN1) disproved; AN2 1Mb telomeric to
REa, D	assignment to 14 in error
REa, D	assignment to 14 in error
Ch, RE, A, REa	involved in t(11;14)(p15;q11.2); between HRAS1 and INS/IGF2
Ch	clumped: pter-FSHB-AN2-WT1-CAT
Psh, A	
A, REa	
S	not WT1
REa	activation antigen of T-cells
REa, A	
A, REa, Fd	
Ch, D	
S, REa	
A	
Fd, D	others map to 19p

REa	
REa, A	
A, Fd	
M	
REa, A	
REa	
Fd	
REa, A	
S	
H	
REa	
REa	
Psh, A	not 11q22-q23
Ch	
S, H	prob. 11q13
A	
A	
REa, A	
REa, Fd	
REa, A	
A, R	
Psh, A	
A	
A, REa, REn	
Fd	?mutation in FCER1B
REa, A	
REa, H, REn, R	
Fd	
A, REa	
Fd	
REa, R	
S, A	
REa, A	
Fd	
A	
Fd	
REn, R, REa, A	?same as BCL1; pseudogene on 11q13
REa, A	
REa, A, R	
REn, A, Psh, R	
A, R, REn	
RE	amplified in breast cancer and squamous cell cancer
A, REa, REc, R	
Fd, REn	?atopy gene

A, REa, RE	coamplified with FGF3 in melanoma
REa, A, RE	35kb 5' to HST1
REl	
S, A, REa, R, Fd	formerly called GST1
Fd	
Fd, D	linked distal to PYGM
REa, A	
A	
REa, RE, A	
REa, RE, A	
REa, A	pter-5'HRAS--5'INS--cen
REn, Ch	within 900kb of MEN1
REa, A, R	
REb, Fd, REn	
H	in mouse, close to FGF3
REa, A	digenic RP with RDS
REa, A	
REa, A, R	
D	
S, D	
A	
Fd	
Fd, Psh	1 family not linked to 11
REc, Psh	
Fd	
REf, REa, A	
REa, A	
S	
Fd	
S	
S	
Fd	shows imprinting; ?11q11-q21
A	
A	
A	
RE, Ch	t(11;14)(q13.3;q32.3); ?same as PRAD1
A	
REa, A, Fd, REn	telomeric of FGF3
A, REn	23kb from FOLR1
Psh, A	
Psh, A, REn	processed from intron of RPS3
Psh, A, REn	
REa, H, A	
REa, A, H	other map to 11p

REa, A	just proximal to TRY; defect in form of Usher syndrome
A	
Fd	
A, R	
Fd	
A	
Psh	
A	
F	?linked to ATN
REa, A, H, F	?linked to CPD3
S, REa, R	
REa, A	like gene on 7q11.2-q11.3
A	
H, REa, Psh, A	
A	
REa	
REa, A	pseudogene on 20q11-q12
REa, A, REb	11q13 = earlier regionalization
REa	400kb telomeric to ATM; pseudogene on 9q21-q22
Psh, A	
REn	
REc	
Ch	3p22 also deleted
H	
REa, A	
Fd, C, M	A, C, D = ~97% of cases; ?3 separate genes
REa, A	
A, REn	
REn	
A	
A	cluster: cen-STMY2-CLG-STMY1-ter
REa, A, Ch	
A	
RE	11q13 = earlier assignment
REa, RE, Fd, F, D	
REa, RE, F	2.6kb 3' to APOA1
F, RE	12 kb 3' to APOA1
Ch	associated with t(11;22)(q23;q11)
REa, A, RE	3 CD3 genes in 50kb
REa, A, RE	
RE, REa, A	
Fd	
Fd, REa, Ch	11q22-q23 junction; 150kb 5' to NCAM; centromeric to APOA1;
Psh	

Ch, RE	fuses with ENL, AF4, AF9
REa, A	
REa, Psh, A	
Ch	
REa, H	
A	
REa, A, Psh	
REa, A	
V	
A, Fd	defective in "staggerer" in mice
A	
Ch, A	fused with RARA in APL of t(11;17) type
Fd	separate from PBGD
REa, A	
REa, A	
A	
A	
Ch	60kb telomeric to MLL
REa, Ch	
Ch, REn	
REa, A, Ch	shown by HSR; 19cM distal to THY1; Ewing sarcoma breakpoint region-2
S, D, Fd, REn	750kb from CD3G
REa, A	
A	
REa, HH, A, Fd, REn	
REa, A	
REa, Ch, A	fused with EWS in Ewing sarcoma; within 200-400kb of ETS1
A	
Psh, R, REc	
REa, A	most telomeric 11q marker
REa	
REb	
S	
S	
REa	
REa	
REa	
REa, H	?on 11q22-q23
Psh	
S	
REa	
REa, A	CD = \`cluster of differentiation\' = nomenclature
S	
A	

Fd, D, A	
S, D, R	
Psh, Fd, REa, A	
A	
A, REa, REb, Fd	pseudogene on chr. 22
REa, A	cluster of genes
Ch	inverted tandem duplication
F, A, RE	6 loci in 2 subfamilies; in 700 kb: PRH1, PRH2, PRB1, PRB2,
F, RE	
F, RE	Ps allele
LD, F, RE	G1 allele
F, RE	Po, CON1, CON2 alleles
F, LD, RE	Pa, Db, PIF alleles
F, LD, RE	Pr allele
F	linked to PRB2
REa, A, Psh	
A	
Fd, LD	
A	
A	
REa, Fd, RE, A	
REa, Fd, RE, A	
REa, A	
S, REa, A	
Psh, A	
Psh, A, REc, REn	
Psh, A	
S, D, A, REa	
RE, Fd, D	fused to PDGFRB or AML1 in leukemia
A, Ch, Psh	
REa, A	
REn	
REa, Fd, A, H	close to VWF
REa, Fd, H	
REa	
REa, Psh, A	
A, REc	
Ch	
Psh, A	
A, REa	
A	
A	
A, Ch	expressed mainly in brain
REa, Psh, A, Fd	

H	tightly linked to TNFR1 in mouse
S, D, R, REa	
REa, A	
Psh, A	
REa, A	
A	
REa, REb	
REa, A	
A	
S, D, Fd	
Fd	
REa, A, Fd	
REa, A	
Psh, A	
A, REa	candidate for DRPLA
A	
A	
Psh, A	
A	
A	
REa, A	a class II keratin; probably in cluster with other keratin genes
Psh, A	
Psh, A	
A	
S, D	
S	?same as MDH1
REa	
S	?relation to LAB7 on 3
REa	
REa, H	
A	
REa, A	
H, REa, A	close to Hox-3 in mouse; class II keratin
Fd	
A, Fd	
Fd	
REc	
A	?same as H1.4 on 6p
A, REa	
REa, A	
A	
A	
REa, A	
REa, A	

REa, A	
REa, A	
REa, A	
Fd	
A	
A	
Psh, A	
A	
A, Ch	fused with EWS in soft tissue clear cell sarcoma
A	
REa, A, REc	on proximal 12p
A	
REa, A	
A	
REa, A, H, RE	order: C13, C12, C9, C8, C6, C5, C4
RE	
RE	
RE	
RE	
RE	
RE	
RE	
REa, A	on 8 near MYC in HeLa
A	
REn, A	contiguous to KRT8, type II heteromer partner
REa, A	
REa, A	slightly distal to AQP2
Fd	presumed type II keratin defect
A, H	
A	
A, REa	
REa, A	candidate gene for neurodegenerative disease
S, R, A	glycine A auxotroph
REa, H, A	
REa, A	
REa	
A	
A	
A	?pseudogenes on 3q and 13q
REa, A	
A	
Fd	
REa, A	
REa	same 300kb fragment as ZNF26

REb, A	
A	
A	
REa, A	
REa, A, Ch	fused with FUS in myxoid liposarcoma
A	
REa, A	
REa, A	
REa, A	
Fd	
REa, A, H	
Psh, A, Fd	incorrectly assigned to chr.1
Fd	?about 20cM centromeric to SPSMA
A	
A, REa	
REa, A	3 introns; none in IFF, IFL
Fd	
A	
REa, A	
Ch	?same as HMGIC
Psh, REc, A	
A, Psh, Ch, RE, Fd	
A	
Fd, LD	
A, REc	
REa, A, RE, REc	6.5kb upstream from MYF5; both prob. 12q15, by H
S	
REa, A	
A, Psh	
Ch	
A	
D, Ch	
REa, A	
A	
A	
A	
REa, A	distal to PAH and proximal to TRA1
REa, A	
REa, A	
REa, A, Fd	
REa	
Fd	
REa, A	
REa	

REa, A	
REa, A	
REa, A	
REa, A	
REa, A	
REa, A	
Fd	
A, REa	
REa, Fd	
Fd	
A, REa	
REa, Fd, LD	tightly linked to SCA2
Fd	?allelic to MODY3
Fd	
REa, A	
Fd	between D12S86 and D12S340
REa, A	
REa, A, Fd	close to IGF1
Ch	
A	
REc	
Fd, REc, Ch	
REa, A	
Fd	
REa, A, H	
A, Fd	
REa, A	
REa, A	
Psh, A	
A	
REa, A	
REa, A	
A	
REa, A	
REa	
REa	
REa, A	
S	
RE, REa	pseudogene at 12q13-q14
REa	
Psh	
REa	
Psh	
REa	

S	
REa	
REa	
REa, A, RE	
REa	family of at least 3 genes on 12
REa	
REa	
REa, REb	
REa	
REa	
A	
Fd	
Fd	?same locus as DFNB1
A	
REa, A	
REa, A	
Fd	
REa, A	150kb from FLT3
A, Psh, REn	
A	
A	
Fd, LD, A	
A	
Psh, A	
REa, Fd	
Ch	
Fd, A, REa	distal to ATP1AL1
Fd	
A	
Psh, A	
A	
REc	
REa, Fd, R	
Fd	
D	>530kb telomeric to RB1
Fd, Ch	
Ch	
REa, A, Fd	
Ch	chimeric with PAX3 in t(2;13); fused to PAX3 in RMSA
Ch, F, Fd	
F, D	
Psh	
S, F, D	proximal to RB1, WND
F, Fd	

REa	
Fd	
REa, Ch, LD	?piebald lethal in mouse
A	
REa, D, A, Fd	
REa, A	
S, A	
A	
REa, A	
REa, A	
A	
REa, A, REb, RE, Fd	
REa, A, RE, Fd	
D	
D, A, REa	
REa, H	
A	
D	with deficiency of factors VII and X in 3 unrelated cases;
A, REa	
A	
REa, A	
Fd	
D	evidence of 1p determinants
Psh	
REa	
A	
Fd	?near MYH7 at 14q12
Fd	
REa, H	
A, REa	proximal to TCRA/TCRD
A	
A	
REa, A, Fd	
REa, A, Fd	
REa, A, Fd	
REa, A, Fd	
H	
REa, A, Fd	
REa	
H, A	
REa, REn	
A, REa, RE	
A, REn	
A, REn	

Fd	?mutation in TGM3
A	
H, REa, A, REn	cen--V-C--ter
RE, Ch	in midst of TCRA
REa, A, Fd	
A	
Fd	
Psh, A	
Fd	
Fd	
REa, RE, D, A, Fd	
REa, RE, D, A	5'-B-4.5kb-A-3'
REa, A	
REa, A	
A	clustered with FKHL1
A	
A	
REa	
S, D	centromeric to TCRA
A	
A	
A, REa	
REb	
A	
REa, A	
REb, F, H, REa, A, RE	?14q23-q24.2
A	
H, REa, A	
REa, A	
Psh, A	
A	interacts with MYC
Fd	
Fd	
REa, Psh, A	related FNTBL1 on 9
A	
S, REa, A	trifunctional protein
REa, A	
REa, Psh, A	
A	
REa, A	
REa, A	
Ch	
REa, A	
REa, A	

Fd	presenilin-1
A	
REa, A	
REa, A	
Psh, A	
Fd	
Fd	
REa, A	
A	
REa, A, H, Fd	
Psh, A	
REa, Fd, A, R	
REa, A	
S, REa, Fd	distal to PI and AACT; closely linked to AKT1 and IGH; proximal
F	linked to IGH, PI; ?same locus as CKBB
H	linked to IgM heavy chain in mouse
REa, H	
A	
H	
Fd	French type
REa, A, Fd, REn	220kb from PI
A, REn	
REa, A	
Psh, REn	
F, S, A, D, EM, Fd	
Ch, RE	
A	
Psh, A	
REa, A	proximal to IGH
A	
REa, A	
REa, A	?functional
REa, A	
REa, A	
S, A, Fd	
REa, A	
RE, REa, A	many genes
REa, A	
REa, A	
REa, A, Fd	
REa, A	
REa, A	IGEP2 on chr. 9; 147210
REa, A	
REa, A	5'-G2-17kb-G4-3'; closeness of IGG3 and IGG1 known

REa, A, Fd	
REa, A	
RE, REa, A	more than 4 genes
REa, A	
F	
REa, RE, A	~250 genes; orientation: cen-PI-D14S1-IGH-IGHV--qter; 3'
Psh	
REa	
S	
REa	
REa	
S	
S	
S	
Ch	?on pericentric region of 14 or 21
REa	
REa	?in cluster with related AAT, AACT, CBG, PCI
Ch	uniparental isodisomy
H	?close to TCRA and NP
Psh	
Psh	
REa	
REa	
A	
Ch, D	same region as ANCR; imprinting
A	?functional
S	
D	
REc	
Ch	see chr.9
S, D	
REn	paternally imprinted
REn	paternally imprinted
Ch, D, REc	same location as PWS
A	
S	in myoblasts, but not myotubes
S	
Fd	
A, H, D, REn	
A, REa, REb, D, REn	100kb from GABRB3
REn	cen--G3--A5--B3
D, REa, Fd	?hypopigmentation in PWS and AS
REa, D	
A	

REa, A, Fd, Psh	
Fd, LD	
D	
A, H	
Psh	
REa, Fd, A	
A	
REa	
A, Psh	
REa, A	
A	
REa, A	
A	
S, H, A, REa, Psh	
REa, A	
REa, A	?mutant in Marfan-like disorders
REa	
H, Fd, LD	
REa, A	
REb, Fd, A, REn, H	
REa, Psh	
REa, Psh, REn	
Fd	
REa, A	
REa, A	
REa, Psh	
S, D, H	on 15q+ in APL
REa, Psh, A	
A	
A	
REa, A	
REa, A, H	close to CYP11 in mouse
A, Fd	
A	
S, D, A	
Ch, RE	fused with RARA in APL
REa	
REa, Psh, A	
Fd	
S, REa, H	CYP2 = earlier symbol
Psh	
REa, Ch	distal to APL breakpoint
REa, H	both CYP1 genes close to MPI in rodents

S	
REa, Psh	
Fd, LD	
A	
REa, H, A, Fd	?15q21.1 close to CYP19
S, D, A	on 15q+ in APL
A	
REa, A	
A, REa	
REa, H, A, REn	
REa, H, Fd, A	
REa, H, A, REn	
REa, A	
A	
Psh, A	
A	
A	
REa, A	
REa, A, D	?relation to FES
RE	less than 1.1kb 5' to FES
A	
A, REa	
Fd	
A, REa	
REa, A	
REa, A	
S, A	
M, LD	
S, A	
S, A	
REa, A	
REa	
S	
REa	
S	
Psh	
REa	
HS, RE, A, D	order: cen-APKD-HBZ1--HBA1-3'HVR-pter; distal to PGP
HS	1, 2, or 3 loci;
HS	
RE	
RE	
Fd, RE	
REa, REn	75kb upstream of HBZ

S	
REa	
F, Fd, REn	
REn	
Ch	proximal to HBA1
REn	
A, Ch	
Psh, A	
REn	
Psh	
Psh, A	
Psh, A	
S, F, Fd	no recombination with PKD1
RE	
REa, A	16q21 = conflicting localization
H, RE	in same 4.8kb fragment as PRM2
REa, A	
REn, A	in 13kb segment with PRM1 and PRM2
Fd, Ch, D, REn	distal to PKD1
A	
Fd	some families unlinked to 16
S, A	
S, A	
REa, A, Ch	fused with CBFB by inversion in acute myelomonocytic leukemia
REa, A	
Psh	
REa	
Ch	
REa, A	
A	
REa, A	
A	
S	
Fd, LD	between D16S80 and D16S283
REa, Fd, A, REc	
Fd, REn, A, REc	same 400kb fragment as SCNN1B
H	
F, Fd	
A, REa	
REa	
Psh	
REa, A	
A	
Psh, A	

A	
Fd	?locus on 1p
Fd	
Ch, RE	fused with DDIT3 in myxoid liposarcoma, with ERG in leukemia
S, REa, A	
RE, A	?in same restriction fragment as LFA1A
REa, A	
REa, A	
REa	
Psh, REa	
REa, A	
REa, Psh	
A	
A	
A	
REa	
D	loss of heterozygosity
Psh, REc	
Fd	behaves as tumor suppressor
REa, A	
Ch	
REa, A, Fd	
A	
Psh, A	
REa, H	close to MT1 in mouse
REa, A, Ch	near MT1,2
REa, A, REn	proximal to FRA16B
REn	
REn	
REn	
REn	
REn	
REn	
REn	
REn	
REn	
REn	
REa, A, REn	
REa	
Fd, A	
A	
REa	
Fd	at least 1 family not linked to 16q21
REa, A	

S, F, H	?pseudogenes on 12 and 1
REa, A	
A	
Ch	inv(16)(p13;q22); fuses to MYH11
A	
Fd	
Fd, A	
A	?16q23, 19q13
A	
A	
A	
REa, Psh, A	
REa, REb, A	
REa	
REa	
REa, D, Ch	near LCAT
H	in mouse tightly linked to ECAD
H	
F	
REn	
S, REa, Ch	
A	
Fc	just distal to fra16q22.1
REa	2.2kb 3' to HP; multiple tandem genes in blacks
F, LD, A, REa	very close to HP
REn	3.1kb from LCAT
REn	
Fd	
REa, A, Fd	
REa, A, H, D	
A	
Psh, A	
REa, A	
REa, H, D, Fd, Ch	HP-7cM-TAT-9cM-CTRB
S, D	distal to GOT2, DIA4; earlier mapped to 16q22.2-q22.3
A	
REa, A	
A	
Psh	
A, Fd	
REa	tightly linked to Aprt in mouse
Psh, A	pseudogene on 16p
REa	
A, REa, Fd	

Fd, LD	linkage heterogeneity
A, Psh	
A	
Psh	
H	
REa	
S	
S	
S	
REb	
REa, S	
S	
REa	
S	
Psh	
S	
REa	
REa	
REa	
S	
REa, A, Psh	
A	
REa, A	
A	
Psh	
REa	
REa	probably in cluster with ZNF29 proximal to TP53
A	
D	
A	
Ch, RE	
Ch, D	
A, Fd, REa	cluster of 16 genes in 350kb
REa, A, D	
Psh, A	
Fd	
Psh, R, A	
REa, A	
REa, A	
REa, A	
Psh	pseudogene also on chr.17
REa, C	cluster = 6 genes in 500kb
REa, C	17p13.105-p12
REa	

REa, REn	
REa, REn	
REa, A, C	
REa, A	
REa, A, D	
D	?related to TP53
Psh	
Psh	
A	
Fd	
Psh, A, Fd	
REa, A	
REa, A	
A	
H, REa	
Fd	
A	
A	
REa, A	
REa, A	proximal to TP53
A, Psh	incorrectly put on 10
REa, A	
REa, A	
A	
H, REa, A	linked to Myh on mouse 11
S, A	
A, REa	
D	
Fd, D, A	
D	deleted in Smith-Magenis syndrome
Psh, A	
A, D	?role in Smith-Magenis syndrome
Fd, LD	
Ch	proximal to CMT1A
REa, A	
REa	
Fd	
REa	
H	
H, REa	
Fd	
Fd	?3 allelic forms
Fd	
REa, A, Psh, H	?cluster of 3 NOS2 genes

REb, REa, A	
REa	
REa	
REa, Ch	?pseudogene
Fd	about 50% of families linked to 17q; not confirmed by some
REa, A	
A	
Fd	
Fd, REa, A, REn	~180kb centromeric to NF1
REa, REn	?17q11-q23
A	?related gene at 5q31-q34
REc	
REa	
REa	
REa, A	centromeric to NF1
REa, A, Fd	
Fd, REa, RE	within the NF1 gene
REn	within the NF1 gene
REn	
REn	
REn	
REn	
Fd, EM, Ch, F	
REa, A	within the NF1 gene
REn	
Psh, A	
REa, Ch	
REa	
A, REa, REb, RE	
REa, A	
REa, A	
A	close to ERBB2
Fd	
A	
A, Ch	fused with MYL in APL
REc, Psh	
RE	
REa, A, R, Fd	
A, REa	
A	
Fd, REa	
REa	
REa, Fd	probably 17q21-q22
REn, Fd	~5' to KRT16; probably 17q21-q22

REa, Fd, H, REn	in rat, close to GH
Fd	
Fd	
REa, A	
Psh, A	
Psh	
A	
Psh, H	between ERBB2 and PRKCA
A	proximal to q21.33; others put at 17q12
Fd	
REa, A, Psh, Fd, REb	flanked by THRA1 and NGFR
REa, REc, A	
REn, RE	
REa, REl	
REa, REn	
REa	
REa, A	
REc	
REa, Fd	incorrectly mapped to 7; close to BRCA1
REb, A, R	see 6p21
RE	
REn	
REa, A	
Fd	?allelic to DDPAC
REn	
REa, REn	
REa, S, A, H	
V	in RNU2
REa	
Fd	?allelic to PPND
Fd	
REa, A, H, Fd, RE	order: 2E, 2D, 2C, 2B, 2A, 2F, 2G, 2H, 2I
RE	
RE	
RE	
RE	
REa, A, H, Fd, RE	
RE	
RE	
RE	
RE	
REa, A, REn	in cluster of class I keratins
Psh, A, REn	in same PFGE fragment as KRT10, KRT15
H, REa, A, REn	tightly linked to Hox-2 in mouse

REa, A, S, Fd, C	distal to APL breakpoint, q21; < 0.5mb from HOX2
REa, Fd	
REa, A, C	
A	
REa, RE, Fd, A	
Fd	
REa, A	
REa, A, REn	?17q11-q23
Fd	
H, REa, R	
A, REn	
A	
A	
A, Fd, REa	
REa, A, REn	
REa, A	
REa, A	
REa, A	
C, M, A, REa	?proximal to GH1
A, REb, REa, RE, F, LD	3' to GP3A; BAK platelet antigen
REa, REb, A, RE, F, LD	in same 260kb fragment as GP2B; PL(A) platelet antigen
REa, A	
A	
A	
A	
REa, A, Fd	cen-COL1A1-PKCA-GH1
REa, A, C	
REa, A	
REa, A	
REa, A, Fd	5'-GH1-CSHP1-CSH1-GH2-CSH2-3'
REa, A	
REa, A	
A, H, Fd	
A	
Psh, A	
A, H	
S, M, REa, RE	
REa, REn	near BRCA1
REa, C	
REa	
Fd, REa	
S	
Fd	distal to type I keratin cluster
REa, A, F, Ch, C, REc	translocated in t(15;17)(q22;q11.2)

A, REc	300kb from MPO
REa, Fd	21.5kb from GH1
A	
Fd	
S, Ch, R, C, A	
REa	
REa, A	
A, REa	
Psh, A	
Psh, A	
Ch	
Psh, A	
A, Psh	
A, Psh	
Psh, A	
REa, A	
A	
A, Fd	
A	
A	
REa, A	
A	
S, REa, A, C	
REa, A, Fd	
Fd	
Ch	
H, REa, A	
A	
S, A	
S, A, D, C	distal to TK1
S, Ch, R, C, Fd, A	
A	
Psh	?near CHRNB1 on 17p
REa, REb	
REa	
REa	probably 17q21-q22
Psh	
REa	
REa	
REa	
REa	
H	
REa, A	
Ch	

S, A	<50 kb from YES1
A	
REa, A	pseudogene on 19q13.3-qter
Ch, F	
REa, REn, A	<50 kb from TYMS
REc, A	
A	
A, Psh	
A	
REa, A	
A	
Fd	?also 18q
S	distal 18q
Psh, Fd	
F	?linked to JK
Ch, H, Fd, M	some families not linked to 18; type D prob. allelic
Fd, EM, A	previous suggestion of chr.7 or chr.2
A	
A, Ch	
A	
REa, A	
Ch, RE	5' SYST/3' SSRC in t(X;18)
A, Psh	
REa, A	
REa, A	
REa, Psh, H, REn	
A, Psh	
A	
REa, A, REn	pemphigus foliaceous antigen
Psh, REn	
Psh, A, REn	
A	
REa	
REa, A	mammalian equivalent of bombesin
R	
Psh	
REn	
REa, A	
LD	?allelic to PFIC
Ld	?allelic to BRIC
H	
D	
Ch	
Fd	

REa, A, REn	600kb telomeric to BCL2
Ch, RE, REn	most frequent hematologic malignancy
D, RE	
A, REb	
RE	~10kb 5' to BCL2
REn, Psh	in cluster of serpins
REn, Psh, A	
REn	
A	
A	
Psh, A	
REa, A	defective in "shiverer," neurologic mutant in mouse
Ch	t(7;18)(q22;q22.1); ?3p21-p14 by linkage
H	
Psh, REa, A	pseudogenes on X, 14q, 20p
A	
REa, R	
S, D	
REa	
REa, S	
S	
S	
S	
A, REn	5\(rm-AZU1-8kb-PR3-3kb-ELAN-3'
A	
A	
A	
Fd	
A	
REa, A	
REa, A	
F, Psh, REn, Fd	cen-FUT5-23kb-FUT3-14kb-FUT6-ter
A, REn	cen-FUT5-FUT3-FUT6-ter
Psh, REn	in cluster with FUT3, FUT5
A	
H	
Fd	
A	
F, Fd, A	close to C3, LU
Ch	fuses with ALL1
A	order: cen-NFIX-NFIC-tel
A	
Fd, D	CGH and LOH used
A	

A, REn, Psh	
Psh, Fd, A, H	
REa, A	
REa, A	another TLE gene or pseudogene on 9
A	close to TLE1
REa, A	
Fd	closely linked to LDLR; may be LDLR
F, S, A, REa	LE ~7cM in males vs. C3 RFLP
REa, A	
A, REa, H, Fd	
REa, H, A	close to Ldlr in mouse
A, Psh	
A	
A	
A	
REn	
REc, A	
REa, A, RE	close to INSR
REc, A	
REa, H, Psh	incorrectly assigned to 15 by A
A	
REa	distal to C3, near LDLR
REa, A	
A	
REa, A, REb	1 gene for alpha and beta subunits
A	
A	
REa, A	
A	
?REa	
F, REa, A	~20cM distal to C3
Ch, A	
REa, A	
REa, Fd	
REa, A	
REa	
A	
S	
REa, A	
Fd	
REa, A, Fd	
Ch, RE	
A	
A	

Psh, A	
A	
REb, A	
REa, A	
F	different locus for brown/blue
F	
REa	
A, Fd	
A	possible tumor suppressor
A	
REa, A	
REn	
Fd	
Fd, A	proximal 19p
REa	
REa, Fd	
S, Psh	
F	linked to SE
S, F, H, Fd	closely linked to APOC2
F	order: C3-SE-LU-A1BG
Fd	associated with APOE4; ?another gene also
REa	
Fd	
Psh	
REa, H	
REa	
A	
REa, A, RE	
Fd	
REa, H, Fd	
REa, RE, A	probably with cluster KLK1, KLK2
Ch, S, H	
REa, A	
Fd	
REc, REa	
REa, RE	12kb from APS
Fd	?role of BCL3
REa, Fd	
H	
REa, A	
A	
A, REc	
A	
REa, A	

REa, A, RE	
A	
S, D, A	
REa, REb, A	
A	
A, Fd, H	
A	
REa, A, H	
A	
A	
REa, REb, A	
Fd	
REa, A	
REa	distal to CEA
REa	
REa	
REa	
REa	
REa	
REa, A	
S	
Ch, S	
A	
A	
REn	555bp upstream of APOC2
F, REa, LD	5'--APOE-4.3kb-APOC1-6kb-APOC1 pseudogene-22kb-APOC2--3'
F, REa, LD, A, Fd	
REa, RE, A	
REa, F, LD, A, Fd	
H, REn	in CEA cluster
REa, A, REc	proximal to PSG cluster in 1.1-1.2Mb segment
REa, A, Fd, REn	CYP1 = earlier symbol
REa, REn, Fd	same NotI fragment as CYP2A
Fd, REa, A, REn	CYP2A, CYP2B, CYP2F1 in 240kb
REa, A	
Psh	
REa, A, REn	in CEA cluster
RE, A	
A	
A	
A	
A	
S, A	
REa, Psh, A	

F, Fd	distal to APOLP2; distal to CKM
S, RE, Fd, A	distal to CKM
S, RE, M	< 250kb from ERCC1
A	
Fd	
REn	
REa, A	
A	
S, A, REa	
REa, A, Fd	pseudogene on 22
A	
REa, A, Fd	~10cM distal to APOC2
Psh, A	
A, REb	
REc, A	
REc, A	
REa, A, REc	
REn	
REa, A	
A	
REn	
F, Fd	SE tightly linked
F, Fd	H, SE = alpha-L-fucosyltransferases; from common ancestral genes;
A, Fd	
REa, A	
REa, A, H	
H	
A	
Psh, A	
A, REa	
REa, A	
A, Fd	
A, Psh, Fd	
A	
REa, A	
REa, A	
S, A, REa, REb	
A	
A	
REa, A	
Psh, REa, A	
194558	A
A	
REa, H, A	at least 5 genes

RE	beta chains of FSH, TSH on 11p, 1p, respectively
A	
REa, A	
REc, REa, A	same cosmid as ETFB
Fd	
REa, A, Fd	
REa, Psh, A	
REa	
S	
REa	
REb	
REa	
REa	
REb	
REa	
REa	
REa	
REa	
S	
REa	
REa	
REa	
REa	
REa	
REa	
REa	
REa	3 genes, ? functional, also on 19
REa	?close to AMH on 19q
REa	
REa, A, REb	
REa	
REb	
REa	
REa, A, Fd	
REa, A, H	
REa, REb, A	pter-PRNP-SCG1-BMP2A-PAX1-cen
REa, A	
REa, RE, Fd	distal 20p
REa, A, Psh	
REa, A	
REa, A	pseudogene on 11p15
Psh, A	
RE, Fd, A	12kb from ARVP
REa, A	

REa, A	
A	
H, REa, A	
REa, A	pseudogenes on X and 6
Psh, A	
A	
Ch, D, Fd	?20p12.3-p11.23
A	
A, Psh, REa	
A, Psh	
A, R	
R	
REa, REb, A	
REb, A, R	
Fd	?allelic to PPCD; both in pericentric area
Fd	in pericentric region
REa, A	proximal to 20p11.2
H	
S	
REa	
S, F	~13cM from ADA
REa, A	
REb, A	
Psh, A	
REa, REb, Ch, Fd, A	
REa, A	
A	
REa, Psh, A	
Ch	
A, Psh	
REa, Fd, H, A	
REa, A	
REa, A	
Psh, A	
REa, A	
A, H	
REa, A, REb	?20q11.2
REa, A, Fd	
REa, A	
REa, A	
A, REn	
REn	
Fd, A	
REa, A	pseudogenes on chr.1 and 22

A, D	
A	
A	
REa, A	
A, R	
A	
S, A, Fd	
A	
REa, A	20pter-q12 by REa
S, D, REa, F, A, Fd	
REa, H, A, Fd	
A, Fd	
A	
A	
REa, REn, A, Fd	
A	
REa, A	
Fd	
REa, A	
Fd	
REa, A	
REa, A	
A	related sequence on 14
REa, A, Fd	
A	incorrectly assigned to 5q
REa, H	?in 20q13.1-q13.3
S	
REc	
S	
A	
A	
Ch	
A	
A, REn, Psh, REc	
REa, A, Fd, RE	proximal to SOD; very distal q21 or boundary with q22
REc, REa, A, Fd	
A	?role in Down syndrome
Fd, REn	35kb distal to IFNAR; D21S58
S, H, REa	multifunctional protein: Ade(-)C, Ade(-)G, GART
Psh, A	
S, D, A, REn	
A	
S, D, Fd	mid q22.1
REc, H	

REa, A	
Fd	
S, A	
REa, A, Psh	
Psh, A	
REn, H, REc	
Psh	
REa, Fd, A	
REn, Psh	
REc	
REa, A	
240300	Fd
REa, A, Fd	
Ch, Fd	
S, D, A, Fd	subtelomeric
REa, A, REn, Fd	
REa, A, REn, Fd	
A	
REa, A, RE, Fd	
Fd	
Ch	
REa, Fd, A	fused with EWS in Ewing sarcoma, with FUS in leukemia
REa, A, Fd	proximal q22.3
REc	
REa, Fd, A	
Ch, REa	
S, A, Fd	common subunit for CR3, LFA1, and P150,95
Fd	
REa, REc	
REa, D, Fd	
Psh, A	distal to PFKL
S, D, Fd	
RE	
REa, A	
A, REn, REa	within 230kb of BCEI
REn	
Psh, A, REn	
A, REa	
D	
D	
REa, A	
D	
REa	
Psh	

REa	
REa	pseudogene on chr.5
A	
REa	
REa	
Fd	
A	
Ch, A, D	partial tetrasomy of 22q11
RE	
D	
Ch, D	
Ch	
Ch, REc	
REb, REa	proximal to BCR
S, Ch	proximal to Ph1 break
Ch	
D, Fd	
REc, Psh, A	
A	?role in CATCH22
REa, A	
REa, F	tight linkage to CYP2D
Fd	
A, S, F, RE	minor peak, q13.1
RE	
REn	
REa, A	on Ph1 chr.; order 5' to 3':cen-V-C-ter
REa, A	many genes
REa, A	nine J-C duplexes
REa, A	several genes
S, D, A, REn	
REc	
REa, A	
REa, D	
REa, A	
REa, A	
REa, A	
Ch	type I X-linked
A, H	
REc	?role in CATCH22
REa	
REa	
REa	
REa	
REc	

REa, A	2nd CRYB2 gene in same region
RE	
REa, A, Fd, H	
REa, Fd	
REa	
F, Fd	?linked to DIA1 and SIS
F, S, D	linked to P1
Ch, RE	distal to IGL; Ph1=t(9;22) (q34.1;q11.21); fusion gene with ABL
Ch, RE	
Ch, RE	
Ch, RE	
REa, Ch	between BCR2 and BCR4; distal to IGLC
REa, Ch	distal to CML breakpoint
S, Ch	distal to Ph1 break
D	
Ch	t(11;22)(q24;q12); t(21;22)(q22;q12)
Psh, A	
REb, A	
A	
A	
REa, D, H	?role in DiGeorge syndrome
REa, A, RE	distal to ES
REa, REn	10kb from LIF
REa, A, Fd	
A, RE, D	
RE, F, Ch, D, Fd	loss of heterozygosity
Psh, A	
REa, Fd	
REa, A	
A	data retracted
REa, A	
A	
REa	
S, REa, A	ade(-)l; bifunctional
F, Fd, Psh, A	debrisoquine 4-hydroxylase; includes CYP2D6, CYP2D7 closely linked
Psh, A	
Psh, A	
Psh, A	
REa	
REa	
Fd	
A	
A	
S, D	

S, REa	
REa, REl	incorrectly assigned to 11q
S	
D	probably close to STS = ARSC1, or s form
REa, Fd	pseudoautosomal
Fd	
S, A, D	distal to STS
F, D	nonlyonizing; spans pseudoautosomal boundary
Ch, REc, Fd	
Pcm, REc, REn	1st intron ~1.3Mb from Xqter; nonlyonized
A	order in PAR: pter-CSF2RA-IL3RA-ANT3-ASMT-MIC2-cen
REn	escapes X-inactivation; 100kb telomeric to STS
REn	nonlyonizing
F, S, D	nonlyonizing
F	?between XG and MIC2
Ch	
Ch	
REn	
D, Fd	CDPX1 in contiguous gene syndrome with STS
REn	
REn	
RE	
Ch	structural HY locus on chr.6, 143170
REa, A, REn	same 190kb segment as CSF2RA
F, Fd, D, REa, REn	with ichthyosis in probable microdeletion syndrome
F, Fd	linked to XG
Fd	?allelic to OA1
REa, A	between STS and ZFX
REa, A, Fd	also Y
Psh	
Fd	
S	proximal to ZFX
F, Fd	25cM from XG
A	
Fd	
F, Fd	
A	
X/A	may be AR, not XR
Ch, REa, Fd	
Fd	
Fd	distal to DMD
Fd	linked to DXS43
Fd	linked to DXS41
REa, A, Fd	

Fd, REa, A	
Fd	linked to DXS41
Fd	
Fd	
F, Ch	?same as ZFX
A	
Psh, A	
A	
REa, Fd	
REa	
REa	
Fd	
X/A, Ch	?in p22.31 with FDH as contiguous gene syndrome
Fd	
H	close to hyp in mouse
REc	
F, Fd, D	?11cM from XG
Fd, Ch	type II defect on chr.22
Fd	
REc	
REc	
D, Fd	male-to-female sex reversal with duplication
RE	expressed only in testis
D, Fd	distal to GK
D, Fd	2Mb distal to DMD
Fd	
Fd	
X/A, Fd, D	dystrophin gene; cen-5'-3'-pter; 2Mb; ?Xp21.13
F, D	~500kb distal to CGD
REa	
Fd	
Fd	
F, D	proximal to DMD
L, REa, A, D	proximal to DMD, CGD
Fd, D	probably between OTC and CGD
Fd	
D	distal to AHC
Fd	
Fd	
Fd, D	close to DXS7
F, D, Fd	pericentric between DXS7 and DXS72
Fd, REa, A	
REa, A, Fd	
A, Fd, REn	5kb from PFC

Fd	
Fd	?order: DMD-17cM-MAOA-7.5cM-CSNB-7.5cM-TIMP-cen
Fd	
REa, A, Fd	
A, REn	
REa, A	in intron of SYN1
Fd	
REa, A	
Fd, REa, D, A, REn	NDP, MAOA, MAOB closely linked
REa, D, A, REn	
REc, REn	
A, S, Ch, REa	escapes inactivation
RE, REa, F, Fd	
A	
Fd, X/A	t(18;X)(q11.2;p11.2); distal to TIMP
RE	
Fd	
REa, Fd	
REa, REn, A	escapes inactivation
REn	escapes lyonization
REa, A, Fd	
Ch, REa, A, Fd	
X/A, Fd	
X/A	Xq21 = conflicting localization
REa, A	?same as SSRC; distal to OATL1
Ch, S, REc	t(X;1)(p11;q21)
Ch, RE, A	?same as ELK1
REc	
Fd	
REa	
Fd	
Fd	
Fd	linked to DXYS1
REa	
Fd	
Ch	conflicting Xp11.22 and Xp22.11
Fd	
REa, A	?Xq27-q25
REa	
REc	
REa	
S, Fd, REa, A	
Fd	
REa, A	

REa, A	
REa, A, REc, H	near AR
Fc, X/A, H	probably Xq13.2-q13.3, ~150kb prox. to PGK1
X/A, H, Fd	~10cM distal to DXS1, proximal to DXYS1
Fd	
Fd	linked to DXS159
Ch	
A	
S, R, REb, Fd	?Xq13.3
REa, A, REn	?proximal and close to PGKA;
RE, Fd	
REa	
Psh, A	
Fd	linked to DXYS1
Fd	linked to DXYS1
S, H	?near HPRT
Fd, LD	
REa, Fd	
A, REa, REn	cen-RPS4X-PHKA1-XIST-qter in 2.6Mb
REn	
RE	
Ch, S, A	q13-q21; metaphase bend, or fold, at q13.3-q21.1
Fd	
Ch	at least 8 genes in Xq21
REa, A	
REa	
Fd, D, H, REn	
REa, A	
Fd, D, REc	
Fd, LD, D, A, Ch, X/A	0.0 recombination with DXYS1, DXYS12
REn	
H, Fd, A	
Fd	
Fd	?contiguous gene syndrome with XLA
REa, A, Fd	leiomyomatosis-nephropathy = contiguous gene syndrome
REn, A	
Fd, Ren	
REc	
S, R, A, Fd	
A	
REa, A, Ch, R, Fd	
REa, A	
S, R, REa, A	
Fd	

REa	
REa, A	
Fd	
REa, A, H, Fd	formerly HTR1C
A, D	
A, REa	
REa	
Fd	
Fd	
Fd	
Psh, A	
Fd, D	1cM from DXS42; no recombination with DXS37
Psh, A	
Fd	
Fd	
Fd	
Fd, A, Psh	Between DSX144E and DSX300
A	
Fd	
Fd	
Fd	
REa, A	1Mb distal to HPRT
Fd	?mutation in Hox3
Fd	?distal to F9
REa, H	P mutant in BFLS
S, M, C, R, REa, Fd	
Fd	
REa, A	
Fd	
X/A, Fd	
RE	
Fd	~8cM proximal to F9
REa, A, RE, D	~60kb telomeric to F9; 5' replacement by chr.15 segment
F	
REa, A, Fd	between HPRT and F9
REa, A, Fd, D, X/A, RE	distal to HPRT; proximal part of Xq27
Ch, F, Fd, RE	8-8.7Mb from telomere
Fd	
F, Fd, D	about 650kb from GCP/RCP
RE	
REa, A, Fd	
Fd, S, REa, Psh	
REa, A	proximal Xq28
A	

F, Fd, RE	also due to deletion of GCP and RCP
Fd	?allelic to BTHS
H	in mouse Bpa, bare-patches, close to G6pd and mdx
Fd	
RE	between QM and DXS1010E
RE	
S, RE	
Fd	
F, Fd, H, REn	in distal Xq28
RE	3 copies, 1 in intron 22 of F8C
F, Fd, REa, A, RE	cen-G6PD-3' end of F8C-5'-ter; 1.1Mb from telomere
REa, A, REn	
Ch, REn	
Ch, RE	distal to FRAXA and FRAXE
F, S, REb, RE	telomeric to GDX; proximal to F8, in same 290kb PFGE fragment;
H, REa, A, RE	4Mb from telomere
Fd	
F, RE, A, Fd	linked to G6PD; multiple genes
RE, H	40kb 3' to G6PD
REn, REa, A	50kb distal to V2R
X/A, Fd, F, RE	telomeric IDS2 source of inversion in IDS
A	in pseudoautosomal region Yq12;
Fd	
Fd	
RE	
RE	
A, RE, H, Fd	between RCP/GCP cluster and G6PD
F	linkage to G6PD,CB in non-Ashkenazi Jews
REa, A	cluster of 12 genes
H, REc	70kb centromeric of RCP/GCP
REa, REn	~30kb 3' and centromeric to F8
Fd	
Fd	distal half of q28
Ch, A	
Fd, REc	close to F8
Fd	
Fd	
Fd	
RE, H	order: G6PD-3'-(7kb)-5'-P3-3'-(0.5kb)-5'-GDX
Fd	
F, RE, A, Fd	5' to CBD
REn, Psh	
RE	
RE	

REa, Psh, A	distal to G6PD
D	
X/A	distal to G6PD
REf	between GCP and FLN1
Fd	
F	linked to DCB, PCB
REn, REc	
REa, H	
REa, Fd	pseudoautosomal
S, A, D, Fd	pseudoautosomal
RE	
REn	see 300015 locus
REa, A, REn	308385 = X homolog; pseudoautosomal
REn	
Ch, Fd	
REn, A	
D	301200 = X homolog
A	306250 = X homolog; distal to MIC2Y
REc, REn	300151 = X homolog; proximal to CSF2RY
D	
D, REc	same interval as HYA; encodes H-Y epitope in mouse
Ch	
D	?same as AZF
D	deletion interval 6; ?encoded by SMCY
REc	
REc	
RE, Fd	
Ch, D	

hominoid primates

order: cen-CD2-CD58-ATP1A1-NGF-TSHB-NRAS-tel

perhaps 7

antigen

?2 genes closely situated

chrs. with amplification

C2, BF, C4A, C4B = class III

ACAT2

triplexes

LDHA; ?close to LDHA

WT1

telomeric to STMY1

splices to EWSR1

of leukocyte differentiation antigens

PRB3, PRB4

?deletion

to IGH
from Lepore-like myeloma protein

centromeric, 5' telomeric; IgM telomeric to IgG

5'-zeta-pseudozeta-pseudoalpha-alpha-2-alpha-1-3'

t(14;18)(q32;q21)

tightly linked to FUT1

in CML; cluster of 4 loci: cen-BCR2, BCR4, IGL-BCR1-BCR3-SIS

nonlyonizing

1.5Mb from telomere
pseudogenes on 9q34, 10p15, 16p13.3, 18p11.3

Cataract, congenital, Volkmann type (2)
Enolase deficiency (1)
HMG-CoA lyase deficiency (3)
Homocystinuria due to MTHFR deficiency (3)
Neuroblastoma (2)
Ehlers-Danlos syndrome, type VI, 225400 (3)
C1q deficiency, type A (3)
C1q deficiency, type B (3)
C1q deficiency, type C (3)
Rhabdomyosarcoma, alveolar, 268220 (3)
Glaucoma, primary congenital, type B (2)
Erythrokeratodermia variabilis (2)
Elliptocytosis-1 (3)
Erythroblastosis fetalis (1); Anemia, hemolytic, Rh-null (1)
?Neuroblastoma (3)

Schwartz-Jampel syndrome (2)
Hypophosphatasia, infantile, 241500 (3); ?Hypophosphatasia, adult,
Breast cancer, ductal (2)
Malignant melanoma, cutaneous (2)
Charcot-Marie-Tooth disease, type IIA (2)
Galactose epimerase deficiency (1)
Corneal dystrophy, crystalline, Schnyder (2)
Kostmann neutropenia, 202700 (3)

Fucosidosis (3)
Paraneoplastic sensory neuropathy (1)
Porphyria cutanea tarda (3); Porphyria, hepatoerythropoietic (3)
Epiphyseal dysplasia, multiple 2, 600204 (3)
C8 deficiency, type I (2)
C8 deficiency, type II (3)
Myopathy due to CPT II deficiency, 255110 (3); CPT deficiency,
Deafness, autosomal dominant 2 (2)
Ceroid lipofuscinosis, neuronal-1, infantile, 256730 (3)
Leukemia-1, T-cell acute lymphoblastic (3)

Acyl-CoA dehydrogenase, medium chain, deficiency of (3)
Maple syrup urine disease, type II (3)
?Myopathy due to succinate dehydrogenase deficiency (1)
Thymine-uraciluria (1); {Fluorouracil toxicity, sensitivity to} (1)
Urate oxidase deficiency (1)
Zellweger syndrome-2 (3)
Glycogen storage disease IIIa (1); Glycogen storage disease IIIb (3)
Stickler syndrome, type III (3)
Stargardt disease-1, 248200 (3); Fundus flavimaculatus with macular
Myoadenylate deaminase deficiency (3)
?Osteopetrosis, 259700 (1)
Retinitis pigmentosa-19 (2)

3-beta-hydroxysteroid dehydrogenase, type II, deficiency (3)
Hypothyroidism, nongoitrous (3)
Retinitis pigmentosa-18 (2)
Cardiomyopathy, familial dilated, with conduction defect, 1 (2)
?Fetal hydantoin syndrome (1); Diphenylhydantoin toxicity (1)
Pheochromocytoma (2)
Choreoathetosis/spasticity, episodic (2)
[Fish-odor syndrome] (1)

Cataract, zonular pulverulent-1 (2)
Pycnodysostosis, 265800 (3)
?Ichthyosis vulgaris, 146700 (1)
Gaucher disease (3)
Vohwinkel syndrome, 124500 (3)
Anemia, hemolytic, due to PK deficiency (3)
Renal cell carcinoma, papillary, 1 (2)
Elliptocytosis-2 (3); Pyropoikilocytosis (3); Spherocytosis,
{Vivax malaria, susceptibility to} (1)
Insensitivity to pain, congenital, with anhidrosis, 256800 (3)

{?Amyloidosis, secondary, susceptibility to} (1)
Deafness, autosomal dominant 7 (2)
{Lupus nephritis, susceptibility to} (3)
Hyperparathyroidism-jaw tumor syndrome (2)
Glaucoma, primary open angle, juvenile-onset, 137750 (3)
[IgG receptor I, phagocytic, familial deficiency of] (1)
Charcot-Marie-Tooth neuropathy, slow nerve conduction type Ib,
Porphyria variegata, 176200 (3)
CD3, zeta chain, deficiency (1)
Nemaline myopathy-1, 161800 (3)
Factor V deficiency (1); Protein C cofactor deficiency (3)

Lupus erythematosus, systemic, 152700 (1); Neutropenia,
Leukemia, acute pre-B-cell (2)
Antithrombin III deficiency (3)
{Atherosclerosis, susceptibility to} (2)
Prostate cancer, hereditary, 1 (1)
Platelet alpha/delta storage pool deficiency (1)
Chronic granulomatous disease due to deficiency of NCF-2 (1)
Epidermolysis bullosa, Herlitz junctional type, 226700 (3)
Nephrotic syndrome, idiopathic, steroid-resistant (2)
Epidermolysis bullosa inversa, junctional (2)
Factor XIIIB deficiency (3)
Retinitis pigmentosa-12, autosomal recessive (2)
Alzheimer disease-4 (3)

Hypokalemic periodic paralysis, 170400 (3)
Cardiomyopathy, dilated-2 (2)
CR1 deficiency (1); ?SLE (1)
Factor H deficiency (1); Membroproliferative glomerulonephritis (1)
Epidermolysis bullosa, Herlitz junctional type, 226700 (3);
{Susceptibility to measles} (1)
[Hyperproreninemia] (3)
Cardiomyopathy, familial hypertrophic, 2, 115195 (3)
van der Woude syndrome (2)
Rippling muscle disease-1 (2)
Usher syndrome, type 2 (2)
?Fanconi anemia (1); ?Xeroderma pigmentosum (1)
{Hypertension, essential, susceptibility to} (3); {Preeclampsia,
Arrhythmogenic right ventricular dysplasia-2 (2)

Fumarase deficiency (3)
Chediak-Higashi syndrome (3)
?Melanoma (1)
ACTH deficiency (1)
Thyroid iodine peroxidase deficiency (1); Goiter, congenital (3);
Hypobetalipoproteinemia (3); Abetalipoproteinemia (3);
Spastic paraplegia-4 (2)
[Fructosuria] (1)

LCHAD deficiency (3); Mitochondrial trifunctional protein
3-hydroxyacyl-CoA dehydrogenase deficiency (1)
Pseudovaginal perineoscrotal hypospadias (3)
Deafness, autosomal recessive-9 (2)
Xanthinuria (1)
Colon cancer, familial nonpolyposis, type 1 (3)
Glaucoma, prmary congenital, type A (2)
Holoprosencephaly-2 (2)
Precocious puberty, male, 176410 (3); Leydig cell hypoplasia (3)
Drusen, radial, autosomal dominant (2)
Ovarian dysgenesis, hypergonadotropic, with normal karyotype, 233300
Cystinuria, 220100 (3)
Carney myxoma-endocrine complex (2)
Doyne honeycomb retinal dystrophy (2)
{Cancer susceptibility} (3)
Alstrom syndrome (2)
Muscular dystrophy, limb-girdle, type 2B (2); Miyoshi myopathy,

[Kappa light chain deficiency] (3)
Pulmonary alveolar proteinosis, congenital, 265120 (3)
Glaucoma, primary open angle, adult onset (2)
{?Tuberculosis, susceptibility to} (2)
Non-insulin-dependent diabetes mellitus 1 (2)
Selective T-cell defect (3)

Nephronophthisis, juvenile (2)
Thrombophilia due to protein C deficiency (3); Purpura fulminans,
?Hepatocellular carcinoma (1)
Xeroderma pigmentosum, group B (3)
?Lactase deficiency, congenital (1); ?Lactase deficiency, adult,
Ehlers-Danlos syndrome, type IV, 130050 (3); Aneurysm, familial,
?Pyridoxine dependency with seizures (1)
Diabetes mellitus, insulin-dependent, 7 (2)

Synpolydactyly, type II, 186000 (3)
Pulmonary hypertension, familial primary (2)
Wrinkly skin syndrome (2)
Lactic acidosis due to defect in iron-sulfur cluster of complex I
Amyotrophic lateral sclerosis, juvenile (2)
Cataract, Coppock-like (3)
Ichthyosis, lamellar, type 2 (2)
Choreoathetosis, familial paroxysmal (2)
Cerebrotendinous xanthomatosis (3)

?Ehlers-Danlos syndrome, type X (1)
Diabetes mellitus, insulin-dependent, 13 (2)
Leukemia/lymphoma, T-cell (2)
Acyl-CoA dehydrogenase, long chain, deficiency of (3)
Carbamoylphosphate synthetase I deficiency (3)
?Cardiomyopathy (1); ?Myopathy, desminopathic (1)
Waardenburg syndrome, type I (3); Waardenburg syndrome, type III,
?Resistance/susceptibility to TB, etc. (1)
Hyperoxaluria, primary, type 1 (3)
Alport syndrome, autosomal recessive, 203780 (3)
Alport syndrome, autosomal recessive, 203780 (3)
[?Hyperproglucagonemia] (1)
?Brachydactyly type E (2)
Brachydactyly-mental retardation syndrome (2)
Bethlem myopathy, 158810 (2)
Oguchi disease, 258100 (3)

Crigler-Najjar syndrome, type I, 218800 (3); [Gilbert syndrome],
von Hippel-Lindau syndrome (3); Renal cell carcinoma (3)
Fanconi anemia, type D (2)
Biotinidase deficiency (3)
Xeroderma pigmentosum, complementation group C (3)
Marfan syndrome, type II (2)
Cardiomyopathy, dilated 2 (2)
Thyroid hormone resistance, 274300, 188570 (3)
Long QT syndrome-3 (3)
Pseudo-Zellweger syndrome (1)
Small-cell cancer of lung (2)

Metaphyseal chondrodysplasia, Murk Jansen type, 156400 (3)
GM1-gangliosidosis (3); Mucopolysaccharidosis IVB (3)
Epidermolysis bullosa dystrophica, dominant, 131750 (3);
Colorectal cancer, familial nonpolyposis type 2 (3); Turcot syndrome
Hyperglycinemia, nonketotic, type II (1)
Progressive external ophthalmoplegia, type 2 (2)
Cerebellar ataxia with retinal degeneration (2)
Larsen syndrome, autosomal dominant (2)
{HIV infection, susceptibility/resistance to} (3)
Pituitary ACTH-secreting adenoma (3)
Deafness, autosomal recessive-6 (2)
{Wernicke-Korsakoff syndrome, susceptibility to} (1)
Renal cell carcinoma (2)
Waardenburg syndrome, type 2A, 193510 (3)

Bardet-Biedl syndrome 3 (2)
Glycogen storage disease IV (3)
Dementia, familial, nonspecific (2)
Protein S deficiency (3)
Pituitary hormone deficiency, combined (3)
Cardiomopathy, hypertrophic, mild-ventricular chamber type (3)
Thyrotropin-releasing hormone deficiency (1)
Hemolytic anemia due to glutathione peroxidase deficiency (1)
Coproporphyria (3); Harderoporphyrinuria (3)
Hypoparathyroidism, familial (2)
Oroticaciduria (1)
Charcot-Marie-Tooth neuropathy 2B (2)
Malignant hyperthermia susceptibility 4 (2)
{?Schizophrenia, susceptibility to} (2)
Atransferrinemia (1)
Moebius syndrome 2 (2)
Propionicacidemia, type II or pccB type (3)

Alkaptonuria (3)
?Lactoferrin-deficient neutrophils, 245480 (1)
Hailey-Hailey disease (2)
Hypocalciuric hypercalcemia, type I, 145980 (3); Neonatal
[Hypoceruloplasminemia, hereditary] (1); Hemosiderosis,
Retinitis pigmentosa-4, autosomal dominant (3); Retinitis pigmentosa,
Usher syndrome, type 3 (2)
Blepharophimosis, epicanthus inversus and ptosis, types I and II (2)
Leukemia, myeloid, acute (1)
Sucrose intolerance (3)
3q21q26 syndrome (1)
Myelodysplasia syndrome-1 (3)
Apnea, postanesthetic (3)
?Cornelia de Lange syndrome (2)
Lymphoma, B-cell (2); Lymphoma, diffuse large cell (3)
Peroxisomal bifunctional enzyme deficiency (1)
?Thrombophilia due to elevated HRG (1)
[Kininogen deficiency] (3)

Lipoma (1)
Optic atrophy 1 (2)
Bernard-Soulier syndrome, variant form (3)
Deafness, autosomal dominant 6 (2)
Achondroplasia, 100800 (3); Hypochondroplasia, 146000 (3);
Huntington disease (3)
Mucopolysaccharidosis Ih (3); Mucopolysaccharidosis Is (3);
Night blindness, congenital stationary, type 3, 163500 (3)
Wolf-Hirschhorn syndrome (2)
?Wolf-Hirschhorn syndrome, 194190 (3); Tooth agenesis, selective,
Wolfram syndrome (2)
Craniosynostosis, Adelaide type (2)
Ellis-van Creveld syndrome (2)

?Chondrodysplasia punctata, rhizomelic (2)
Phenylketonuria due to dihydropteridine reductase deficiency (3)
Retinitis pigmentosa, autosomal recessive (3)
Total anomalous pulmonary venous return (2)
{Psoriasis susceptibility 3} (3)
[AFP deficiency, congenital] (1); [Hereditary persistence of
Analbuminemia (3); [Dysalbuminemic hyperthyroxinemia] (3);
Periodontitis, juvenile (2)
Amelogenesis imperfecta-2, hypoplastic local type (2)
Muscular dystrophy, limb-girdle, type 2E (3)
Piebaldism (3); Mast cell leukemia (3); Mastocytosis with associated

Dentinogenesis imperfecta-1 (2)
?Leukemia, acute lymphocytic, with 4/11 translocation (3)
Mucolipidosis II (1); Mucolipidosis III (1)
Parkinson disease, familial-1 (2)
Polycystic kidney disease, adult, type II (3)
Abetalipoproteinemia, 200100 (3)

C3b inactivator deficiency (3)
Iris hypoplasia with glaucoma, autosomal dominant (2)
Rieger syndrome, type I, 180500 (3)
Long QT syndrome, type 4, with sinus bradycardia (2)
Severe combined immunodeficiency due to IL2 deficiency (1)
Dysfibrinogenemia, alpha type (3); Amyloidosis, hereditary renal,
Dysfibrinogenemia, beta type (3)
Dysfibrinogenemia, gamma type (3); Hypofibrinogenemia, gamma
Anterior segment mesenchymal dysgenesis (2)
Sclerotylosis (2)
Aspartylglucosaminuria (3)
Glutaricacidemia, type IIC (3)
Hepatocellular carcinoma (3)

Factor XI deficiency (3)
Facioscapulohumeral muscular dystrophy 1A (2)
Fletcher factor deficiency (1)
Neutropenia, neonatal alloimmune (1)
?Mannosidosis, beta- (1)
Leigh syndrome (3)
?Hypertension, salt-resistant (1)
C6 deficiency (1); Combined C6/C7 deficiency (1)
C7 deficiency (1)
C9 deficiency (1)

Hyperketonemia with episodic severe ketoacidosis, 245050 (3)
Laron dwarfism, 262500 (3); Short stature, idiopathic (3)
Chondrocalcinosis with early onset osteoarthritis (2)
Endometrial carcinoma (3)
Maroteaux-Lamy syndrome, several forms (3)
?Klippel-Feil syndrome (2)
?Anemia, megaloblastic, due to DHFR deficiency (1)
?Schizophrenia (2)
Werdnig-Hoffmann disease (2); Spinal muscular atrophy II (2);
Sandhoff disease, infantile, juvenile, and adult forms (3); Spinal
Wagner syndrome (2); Erosine vitreoretinopathy (2)

Basal cell carcinoma (3)
Colorectal cancer (3)
Gardner syndrome (3); Polyposis coli, familial (3); Colorectal
HEMPAS, 224100 (1)
Muscular dystrophy, limb-girdle, autosomal dominant (2)
{Diphtheria, susceptibility to} (1)
Contractural arachnodactyly, congenital (3)
Neonatal alloimmune thrombocytopenia (2); ?Glycoprotein Ia deficiency
?Male infertility (1)
Cortisol resistance (3)
Corneal dystrophy, Groenouw type I, 121900 (3); Corneal dystrophy,
Bronchial asthma (2)
Deafness, autosomal dominant 1 (2)
{Schistosoma mansoni, susceptibility/resistance to} (2)

?{Allergy and asthma susceptibility} (2)
Macrocytic anemia refractory, of 5q- syndrome, 153550 (3);
Retinitis pigmentosa, autosomal recessive (3)
GM2-gangliosidosis, AB variant (3)
Startle disease/hyperekplexia, autosomal dominant, 149400 (3);
Diastrophic dysplasia (3); Atelosteogenesis II, 256050 (3);
Treacher Collins mandibulofacial dysostosis (2)
Muscular dystrophy, limb-girdle, type 2F, 601287 (3)
Limb girdle muscular dystrophy 2F (autosomal recessive) (2)
Factor XII deficiency (3)

Craniosynostosis, type 2 (3)
Leukotriene C4 synthase deficiency (1)
Cockayne syndrome, type A (3)
Orofacial cleft-1 (2)
Factor XIIIA deficiency (3)
Spinocerebellar ataxia-1, 164400 (3)
Leukemia, acute nonlymphocytic (2)
Schizophrenia-3 (2)

Maple syrup urine disease, type Ib (3)
Peroxisomal biogenesis disorder, complementation group 4 (3)
Ankylosing spondylitis (2)
Atrial septal defect, secundum type (2)
C2 deficiency (3)
C4 deficiency (3)
C4 deficiency (3)
Stickler syndrome, type II, 184840 (3); OSMED syndrome, 215150 (3)
Adrenal hyperplasia, congenital, due to 21-hydroxylase deficiency (3)
Dyslexia, specific, 2 (2)
[Renal glucosuria] (2)
Hemochromatosis (2)
Ehlers-Danlos-like syndrome (1)

{Beryllium disease, chronic, susceptibility to} (3)
{Pemphigoid, susceptibility to} (2)
?Diabetes mellitus, insulin-dependent-1 (2)
Sialidosis, type I (3); Sialidosis, type II (3)
?Paget disease of bone (2)
Retinitis pigmentosa-14 (2)
?Ragweed sensitivity (2)

Bare lymphocyte syndrome, type I, due to TAP2 deficiency (1)
?Laryngeal adductor paralysis (2)
?Epilepsy, juvenile myoclonic (2)
Polycystic kidney disease, autosomal recessive (2)
Platelet-activating factor acetylhydrolase deficiency (3)
Anemia, hemolytic, Rh-null, suppressor type, 268150 (3)
Retinitis pigmentosa, peripherin-related (3); Retinitis punctata
Cleidocranial dysplasia (2)
?Lipoma (1)
Methylmalonicaciduria, mutase deficiency type (3)
Hemolytic anemia due to gamma-glutamylcysteine synthetase deficiency

?Immotile cilia syndrome (2)
Nystagmus-2, autosomal dominant (2)
Pelviureteric junction obstruction (2)
Stargardt disease 3 (2)
Mixed polyposis syndrome, hereditary (2)
Chorioretinal atrophy, progressive bifocal (2)
?Ocular albinism, autosomal recessive (2)
Salla disease (2)
Macular dystrophy, North Carolina type (2)
Insulin-dependent diabetes mellitus-15 (2)
Metaphyseal chondrodysplasia, Schmid type (3)
Heterotaxia, visceroatrial, autosomal recessive (3)

Muscular dystrophy, congenital merosin-deficient (3)
Diabetes mellitus, transient neonatal (2)
[Hereditary persistence of fetal hemoglobin, heterocellular] (2)
Deafness, autosomal nonsyndromic sensorineural, 10 (2)
Argininemia (3)
Myoclonus epilepsy, Lafora type (2)
Insulin-dependent diabetes mellitus-5 (2)
?Retinal cone dystrophy-1 (2)
Diabetes mellitus, insulin-dependent, 8 (2)
Breast cancer (1); Estrogen resistance (3)
?ACAT2 deficiency (1)
Hepatocellular carcinoma (3)
Plasminogen Tochigi disease (3); Dysplasminogenemic thrombophilia
Ovarian cancer, serous (2)
{Coronary artery disease, susceptibility to} (1)

?Diabetes mellitus, insulin-dependent, neonatal (2)
Craniosynostosis, type 1 (2)
Saethre-Chotzen syndrome, 101400 (3)
Macular dystrophy, dominant cystoid (2)
Blepharophimosis, epicanthus inversus, and ptosis 2 (2)
Retinitis pigmentosa-9 (2)
Deafness, autosomal dominant 5 (2)
Growth hormone deficient dwarfism (3)

Hand-foot-uterus syndrome, 140000 (3)
MODY, type II, 125851 (3)
Colton blood group (3)
Charcot-Marie-Tooth disease, neuronal type, D (2)
Alpha-ketoglutarate dehydrogenase deficiency (1)
Greig cephalopolysyndactyly syndrome, 175700 (3); Pallister-Hall
Myopathy due to phosphoglycerate mutase deficiency (3)
?Goldenhar syndrome (2)
Spinal muscular atrophy, distal, with upper limb predominance (2)
Argininosuccinicaciduria (3)
[Macrothrombocytopenia] (1); Platelet glycoprotein IV deficiency
Supravalvar aortic stenosis, 185500 (3); Williams-Beuren syndrome,

Cavernous angiomatous malformations (2)
?EEC syndrome (2)
Chronic granulomatous disease due to deficiency of NCF-1 (3)
Zellweger syndrome-1 (2)
?Erythremia (1)
Malignant hyperthermia susceptibility-3, 154276 (3)
Mucopolysaccharidosis VII (3)
Split hand/foot malformation, type 1 (2)
Thrombophilia due to excessive plasminogen activator inhibitor (1);
Split hand/foot malformation, type 1 (3)
?Colon cancer (1); Chloride diarrhea, congenital, Finnish type,

Osteogenesis imperfecta, 4 clinical forms, 166200, 166210, 259420,
Cardiomyopathy, familial hypertrophic with
Deafness, autosomal recessive-4 (2)
Pendred syndrome (2)
Lipoamide dehydrogenase deficiency (3)
Hemolytic anemia due to bisphosphoglycerate mutase deficiency (1)
Retinitis pigmentosa-10 (2)
?Cutis laxa, marfanoid neonatal type (1)
Cystic fibrosis (3); Congenital bilateral absence of vas deferens
?Obesity (2)
Colorblindness, tritan (3)
Trypsinogen deficiency (1); Pancreatitis, hereditary, 167800 (3)
Smith-Lemli-Opitz syndrome (2)
Thromboxane synthase deficiency (2)
Myotonia congenita, recessive, 255700 (3); Myotonia congenita,
Pancreatitis, hereditary (2)
Long QT syndrome-2 (3)

Holoprosencephaly, type 3 (2)
?Hereditary persistence of fetal hemoglobin, heterocellular,
Sacral agenesis-1 (2)
Holoprosencephaly, type 3, 142945 (3)
Triphalangeal thumb-polysyndactyly syndrome (2)
Epilepsy, progressive, with mental retardation (2)
Hyperlipoproteinemia I (1); Lipoprotein lipase deficiency (3);
?Prostate Cancer (1)

Hemolytic anemia due to glutathione reductase deficiency (1)
Scurvy (3)
?{Atherosclerosis, susceptibility to} (3)
?Hypogonadotropic hypogonadism due to GNRH deficiency,
Plasminogen activator deficiency (1)
Werner syndrome (2)
Spastic paraplegia 5A (2)
Spherocytosis-2 (3)
Lipoid adrenal hyperplasia, 201710 (3)
Pfeiffer syndrome, 101600 (3)
Retinitis pigmentosa-1 (2)
Chondrocalcinosis with early-onset osteoarthritis (2)
Epilepsy, benign neonatal, type 2 (2)
?Severe combined immunodeficiency, type I (1)
Salivary gland pleomorphic adenoma (2)
ACTH deficiency, 201400 (2)
Charcot-Marie-Tooth disease, type IVA (2)
Ataxia with isolated vitamin E deficiency, 277460 (3)

Branchiootorenal syndrome, 113650 (3)
Adrenal hyperplasia, congenital, due to 11-beta-hydroxylase
CMO II deficiency (3)
Zellweger syndrome-3 (3)
Renal tubular acidosis-osteopetrosis syndrome (3)
Cohen syndrome (2)
Klippel-Feil syndrome with laryngeal malformation (2)
Epidermolysis bullosa, Ogna type (2)
Epilepsy, generalized, idiopathic (2)
Hereditary motor and sensory neuropathy, Lom type (2)
Muscular dystrophy with epidermolysis bullosa simplex, 226670 (3)
Macular dystrophy, atypical vitelliform (2)
Exostoses, multiple, type 1 (2)
Langer-Giedion syndrome (2)
Trichorhinophalangeal syndrome, type I (2)
Burkitt lymphoma (3)

Hypothyroidism, hereditary congenital (3); Goiter, adolescent
?Rothmund-Thomson syndrome (2)
?Dicarboxylicaminoaciduria, 222730 (1)
Ovarian carcinoma (2)
Albinism, brown, 203290 (1)
Hyperglycinemia, isolated nonketotic, type I (3)
Interferon, alpha, deficiency (1)
Leukemia, acute lymphoblastic (2)
Melanoma, 155601 (3)

Trichoepithelioma, multiple familial (2)
Distal arthrogryposis-1 (2)
Cartilage-hair hypoplasia (2)
Galactosemia (3)
?Melkersson-Rosenthal syndrome (2)
Inclusion body myopathy, autosomal recessive (2)
Venous malformations, multiple cutaneous and mucosal (2)
Cardiomyopathy, familial dilated 1B (2)
Deafness, autosomal recessive 7 (2)
Friedreich ataxia (2); Friedreich ataxia with retained reflexes (2)
[Ii blood group, 110800] (1)

Fructose intolerance (3)
Chondrosarcoma, extraskeletal myxoid (1)
Pseudohermaphroditism, male, with gynecomastia (3)
Neuropathy, hereditary sensory and autonomic, type 1 (2)
Fructose-bisphosphatase deficiency (1)
Fanconi anemia, type C (3)
Basal cell nevus syndrome, 109400 (3); Basal cell carcinoma,
Epithelioma, self-healing, squamous 1, Ferguson-Smith type (2);
Basal cell nevus syndrome (2)
Leukemia-2, T-cell acute lymphoblastic (3)
Dysautonomia, familial (2)
Fukuyama type congenital muscular dystrophy (2); ?Walker-Warburg
?Acrofacial dysostosis, Nager type (2)
Torsion dystonia (2)
[Sarcosinemia] (2)
?Hypomelanosis of Ito (2)
Porphyria, acute hepatic (3); {Lead poisoning, susceptibility to} (3)
Citrullinemia (3)
Dopamine-beta-hydroxylase deficiency (1)
Amyloidosis, Finnish type, 105120 (3)

Tuberous sclerosis-1 (2)
Leukemia, chronic myeloid (3)
Hemolytic anemia due to adenylate kinase deficiency (1)
C5 deficiency (1)
?Carnitine acetyltransferase deficiency (1)
Leukemia, acute myeloid (2)
Hereditary hemorrhagic telangiectasia, 187300 (3)
?Stomatocytosis I (1)
Nail-patella syndrome (2)
Xeroderma pigmentosum, type A (3)
Ehlers-Danlos syndrome, type II, 130010 (3); Ehlers-Danlos syndrome,
Ehlers-Danlos syndrome, type II (2)
Leukemia, T-cell acute lymphoblastic (2)

Refsum disease, adult, with increased pipecolicacidemia (2)
Prostate adenocarcinoma (2)
Digeorge syndrome/velocardiofacial syndrome complex-2 (2)
Vitamin B12, selective intestinal malabsorption of (2)
Glioblastoma multiforme (2)
Epilepsy, partial (2)
Cockayne syndrome-2, late onset (2)
Thyroid papillary carcinoma (1)
Multiple endocrine neoplasia IIA, 171400 (3); Medullary thyroid
{Chronic infections, due to opsonin defect} (3)

Cardiomyopathy, dilated 1C (2)
Hyperphenylalaninemia due to pterin-4a-carbinolamine dehydratase
Hemolytic anemia due to hexokinase deficiency (3)
Methionine adenosyltransferase I/III deficiency (3)
Cowden disease (2)
Metachromatic leukodystrophy due to deficiency of SAP-1 (3);
Hermansky-Pudlak syndrome (2)
Spinocerebellar ataxia, infantile, with sensory neuropathy (2)
PEO with mitochondrial DNA deletions, type 1 (2)
Leukemia, T-cell acute lymphocytic (2)
?Retinol binding protein, deficiency of (1)
Wolman disease (3); Cholesteryl ester storage disease (3)
Split hand/foot malformation, type 3 (2)

{Autoimmune lymphoproliferative syndrome} (3)
Mephenytoin poor metabolizer (3)
Epidermolysis bullosa, generalized atrophic benign, 226650 (3)
Adrenal hyperplasia, congenital, due to 17-alpha-hydroxylase
?P5CS deficiency (1)
Prostate cancer, 176807 (3)
Optic nerve coloboma with renal anomalies, 120330 (3)
Porphyria, congenital erythropoietic (3)
Crouzon craniofacial dysostosis, 123500 (3); Jackson-Weiss syndrome,
Gyrate atrophy of choroid and retina with ornithinemia, B6
Schizencephaly (3)
Pancreatic lipase deficiency (1)
Beckwith-Wiedemann syndrome (2)
[AMP deaminase deficiency, erythrocytic] (3)

Beckwith-Wiedemann syndrome, 130650 (3)
Autonomic nervous system dysfunction (3); [Novelty seeking
Insulin-dependent diabetes mellitus-2 (2)
Sickle cell anemia (3); Thalassemias, beta- (3);
?Hereditary persistence of fetal hemoglobin (3)
HPFH, nondeletion type A (3)
HPFH, nondeletion type G (3)
Diabetes mellitus, rare form (1); MODY, one form (3);
Long QT syndrome-1 (3); Jervell and Lange-Neilsen syndrome, 220400
Wilms tumor, type 2 (2); Adrenocortical carcinoma, hereditary, 202300
Rhabdomyosarcoma (2)
Segawa syndrome, recessive (3)
Exertional myoglobinuria due to deficiency of LDH-A (3)
Niemann-Pick disease, type A (3); Niemann-Pick disease, type B (3)
Hypoparathyroidism, autosomal dominant(3); Hypoparathyroidism,

Breast cancer (3)
Persistent hyperinsulinemic hypoglycemia of infancy, 256450 (3)
Usher syndrome, type 1C (2)
Persistent hyperinsulinemic hypoglycemia of infancy (2)
Atrophia areata (2)
Leukemia, T-cell acute lymphoblastic (2)
Hepatocellular carcinoma (1)
Acatalasemia (3)
CD59 deficiency (3)
?Male infertility, familial (1)
Leukemia, acute, T-cell (2)
Aniridia (3); Peters anomaly (3); Cataract, congenital, with
Severe combined immunodeficiency, B cell-negative, 601457 (3)
Severe combined immunodeficiency, B cell-negative, 601457 (3)
Leukemia, acute T-cell (2)
Wilms tumor, type 1 (3); Denys-Drash syndrome (3)
Parietal foramina (2)
?Lysosomal acid phosphatase deficiency (1)
Xeroderma pigmentosum, complementation group E, DDB-negative
Exostoses, multiple, type 2 (3)

Cardiomyopathy, familial hypertrophic, 4, 115197 (3)
Spinocerebellar ataxia, type 5 (2)
Hypoprothrombinemia (3); Dysprothrombinemia (3)
CPT deficiency, hepatic, type I, 255120 (1)
?Jacobsen syndrome (2)
Angioedema, hereditary (3)
Xeroderma pigmentosum, type E, subtype 2 (1)
Atopy (2)
Osteoporosis pseudoglioma syndrome (2)
Osteoporosis-pseudoglioma syndrome (2)
Deafness, autosomal dominant 11 (2)
Bardet-Biedl syndrome 1 (2)
Parathyroid adenomatosis 1 (2); Centrocytic lymphoma (2)

Diabetes mellitus, insulin-dependent, 4 (2)
Multiple endocrine neoplasia I (3); Prolactinoma,
?Mitochondrial complex I deficiency, 252010 (1)
McArdle disease (3)
Retinitis pigmentosa, digenic (3)
?{Susceptibility to IDDM} (1)
Somatotrophinoma (2)
Cervical carcinoma (2)
Macular dystrophy, vitelliform type (2)
Vitreoretinopathy, neovascular inflammatory (2)
Vitreoretinopathy, exudative, familial (2)
Paraganglioma (2)
Leukemia/lymphoma, B-cell, 1 (2)
Pyruvate carboxylase deficiency (1)

Deafness, autosomal recessive 2 (2)
Usher syndrome, type 1B (3)
Albinism, oculocutaneous, type IA (3)
?Anal canal carcinoma (2)
Ataxia-telangiectasia (2)
3-ketothiolase deficiency (3)
Phenylketonuria due to PTS deficiency (3)
ApoA-I and apoC-III deficiency, combined (3); Hypertriglyceridemia,
Hypertriglyceridemia (3)
Breast cancer-3 (2)
Charcot-Marie-Tooth neuropathy-4b (2)

Leukemia, myeloid/lymphoid or mixed-lineage (2)
?Thrombocytopenia, Paris-Trousseau type (2)
Porphyria, Chester type (2)
Porphyria, acute intermittent (3)
Bartter syndrome, type 2 (3)
Anemia, pernicious, congenital, due to deficiency of intrinsic
[CD4(+) lymphocyte deficiency] (2); {Lupus erythematosus,
?Hyperleucinemia-isoleucinemia or hypervalinemia (1)

Dentatorubro-pallidoluysian atrophy (3)
von Willebrand disease (3)
Emphysema due to alpha-2-macroglobulin deficiency (1)
?Acrocallosal syndrome (2)
Inflammatory bowel disease-2 (2)
C1r/C1s deficiency, combined (1)
C1r/C1s deficiency, combined (1)
Leukemia, acute lymphoblastic (1)
Episodic ataxia/myokymia syndrome, 160120 (3)
?Eosinophilic myeloproliferative disorder (2)
Adrenoleukodystrophy, neonatal, 202370 (3)
Pseudohypoaldosteronism, type I, 264350 (3)

Hemolytic anemia due to triosephosphate isomerase deficiency (3)
Glycogen synthase, liver, deficiency of, 240600 (1)
Hypertension with brachydactyly (2)
Colorectal adenoma (1); Colorectal cancer (1)
?Humoral hypercalcemia of malignancy (1)
White sponge nevus (3)
Epidermolytic hyperkeratosis, 113800 (3); Keratoderma, palmoplantar,
Ichthyosis bullosa of Siemens, 146800 (3)
Epidermolysis bullosa simplex, Dowling-Meara type, 131760 (3);
Palmoplantar keratoderma, Bothnia type (2)
Hereditary hemorrhagic telangiectasia 2, 600376 (3)

Pachyonychia congenita, Jadassohn-Lewandowsky type (3)
Rickets, vitamin D-resistant (3); ?Osteoporosis, involutional (1)
Achalasia-addinsonianism-alacrimia syndrome (2)
Persistent Mullerian duct syndrome, type II, 261550 (3)
Diabetes insipidus nephrogenic, autosomal recessive (3)
{?Liver disease, susceptibility to, from hepatotoxins or viruses
Monilethrix (2)
Enuresis, nocturnal, 2 (2)

Myxoid liposarcoma (3)
Stickler syndrome, type I (3); SED congenita (3); Kniest dysplasia
Fibrosis of the extraocular muscles, congenital (2)
Glycogen storage disease VII (3)
Scapuloperoneal syndrome, myopathic type (2)
Melanoma (3)
Sanfilippo syndrome, type D (1)
Interferon, immune, deficiency (1)
Pseudo-vitamin D dependency rickets 1 (2)
Lipoma, benign (2); ?Multiple lipomatosis (2)
Lipoma (3); Salivary adenoma (3); Uterine leiomyoma (3)
Cornea plana congenita, recessive (2)
Male germ cell tumor (2)
[Histidinemia] (1)
Growth retardation with deafness and mental retardation (3)
Acyl-CoA dehydrogenase, short-chain, deficiency of (3)
Noonan syndrome-1 (2)

Darier disease (keratosis follicularis) (2)
Ulnar mammary syndrome (2)
Diabetes, non-insulin-dependent, with insulin secretion defect
Spinocerebellar ataxia-2, 183090 (3)
Spinal muscular atrophy-4 (2)
Tyrosinemia, type III (1)
Phenylketonuria (3); [Hyperphenylalaninemia, mild] (3)
B-cell non-Hodgkin lymphoma, high-grade (3)
Holt-Oram syndrome, 142900 (3)
Scapuloperoneal spinal muscular atrophy, New England type (2)
Alcohol intolerance, acute (3); {?Fetal alcohol syndrome} (1)
MODY, type 3, 600496 (3)
Amyloidosis, renal, 105200 (3)

Mevalonicaciduria (3)
Ectodermal dysplasia, hidrotic (2)
Deafness, autosomal nonsyndromic sensorineural, 3 (2)
Deafness, autosomal recessive 1 (2)
Muscular dystrophy, Duchenne-like, autosomal, type 1 (3)
Pancreatic agenesis, 260370 (3)
?Moebius syndrome (2)
Breast cancer 2, early onset (2); Pancreatic cancer (3)
Enuresis, nocturnal, 1 (2)
Leukemia, chronic lymphocytic, B-cell (2)
Rieger syndrome, type 2 (2)
Rhabdomyosarcoma, alveolar, 268220 (3)
Retinoblastoma (3); Osteosarcoma, 259500 (2); Bladder cancer,
Wilson disease (3)

Ceroid-lipofuscinosis, neuronal, variant late infantile form (2)
Hirschsprung disease-2, 600155 (3)
Propionicacidemia, type I or pccA type (1)
Xeroderma pigmentosum, group G, 278780 (3)
Factor VII deficiency (3)
Factor X deficiency (3)
?HHH syndrome (2)
Oguchi disease, 258100 (3)
Stargardt disease 2 (2)
Breast cancer, ductal (2)
Carboxypeptidase B deficiency (1)
Myopathy, distal (2)
Spastic paraplegia-3A (2)
Temperature-sensitive apoptosis (1)

Lamellar ichthyosis, autosomal recessive (2)
Leukemia/lymphoma, T-cell (3)
Ichthyosis, lamellar, autosomal recessive 242300 (3)
Oculopharyngeal muscular dystrophy (2)
Deafness, autosomal recessive-5 (2)
Deafness, autosomal dominant-9 (2)
Cardiomyopathy, familial hypertrophic, 1, 192600 (3); ?Central core
Goiter, familial, due to TTF-1 defect (1)
Nucleoside phosphorylase deficiency, immunodeficiency due to (3)
Glycogen storage disease VI (1)
Elliptocytosis-3 (3); Spherocytosis-1 (3); Anemia, neonatal
?Fibrodysplasia ossificans progressiva, 135100 (1)
Phenylketonuria, atypical, due to GCH1 deficiency, 233910 (1);
Arrhythmogenic right ventricular dysplasia-1 (2)
?Cataract, anterior polar, I (2)

Alzheimer disease-3 (3)
Insulin-dependent diabetes mellitus-11 (2)
Machado-Joseph disease (3)
Krabbe disease (3)
Hypothyroidism, nongoitrous, due to TSH resistance (3); Thyroid
[Creatine kinase, brain type, ectopic expression of] (2)
?Situs inversus viscerum (2)
Usher syndrome, type 1A (2)
Alpha-1-antichymotrypsin deficiency (3); Cerebrovascular
[Transcortin deficiency] (1)
Protein C inhibitor deficiency (2)
Emphysema-cirrhosis (3); Hemorrhagic diathesis due to
Leukemia/lymphoma, T-cell (2)
?Combined variable hypogammaglobulinemia (1)

Agammaglobulinemia, 601495 (3)
?Hyperimmunoglobulin G1 syndrome (2)
?Sanfilippo syndrome, type C (2)
Rod monochromacy (2)
Prader-Willi syndrome (2)
?Albright hereditary osteodystrophy-2 (2)
?Hypomelanosis of Ito (2)
Angelman syndrome (3)
Spastic paraplegia-6 (2)
Albinism, oculocutaneous, type II (3); Albinism, ocular, autosomal
?Prader-Willi syndrome (1)

Andermann syndrome (2)
Isovalericacidemia (3)
Spherocytosis, hereditary, Japanese type (3); ?Hermansky-Pudlak
?Cataract, congenital (2)
Deafness, autosomal dominant 8 (2)
Bartter syndrome, 241200 (3)
Muscular dystrophy, limb-girdle, type 2A, 253600 (3)
Dyserythropoietic anemia, congenital, type III (2)
Hemodialysis-related amyloidosis (1)
Hepatic lipase deficiency (3)
?Gynecomastia, familial, due to increased aromatase activity (1);
Marfan syndrome, 154700 (3); Shprintzen-Goldberg syndrome,
Leukemia, acute promyelocytic (2)
Cardiomyopathy, familial hypertrophic, 3, 115196 (3)

Bardet-Biedl syndrome 4 (2)
Polycystic ovary syndrome with hyperandrogenemia (2)
Tay-Sachs disease (3); GM2-gangliosidosis, juvenile, adult (3);
Glutaricaciduria, type IIA (1)
Tyrosinemia, type I (3)
Diabetes mellitus, insulin-dependent, 3 (2)
Bloom syndrome (2)
Thalassemias, alpha- (3); Methemoglobinemias, alpha- (3);
Alpha-thalassemia/mental retardation syndrome, type 1 (1)

Polycystic kidney disease-1, 173900 (3)
Cataract, congenital, with microphthalmia (2)
Rubenstein-Taybi syndrome, 180849 (3)
Polycystic kidney disease, infantile severe, with tuberous sclerosis
Tuberous sclerosis-2 (2)
Carbohydrate-deficient glycoprotein syndrome (2)
Xeroderma pigmentosum, type F (3)
{?Hypertension, essential} (1)
[Glyoxalase II deficiency] (1)
Familial Mediterranean fever (2)
Liddle syndrome, 177200 (3); Pseudohypoaldosteronism, type 1, 264350
Liddle syndrome, 177200 (3); Pseudohypoaldosteronism type 1, 264350
Batten disease (3)
Brody myopathy, 601003 (3)

Inflammatory bowel disease-1 (2)
Arthrocutaneouveal granulomatosis (2)
?Renal glucosuria, 253100 (1)
Wilms tumor, type 3 (2)
Cylindromatosis (2)
?Phosphorylase kinase deficiency of liver and muscle, 261750 (2)
?Townes-Brocks syndrome (2)
Gitelman syndrome, 263800 (3)
?Monocyte carboxyesterase deficiency (1)
Bardet-Biedl syndrome 2 (2)
[CETP deficiency] (3)

Myeloid leukemia, acute, M4Eo subtype (2)
Apparent mineralocorticoid excess, hypertension due to (3)
Macular corneal dystrophy (2)
Aldolase A deficiency (3)
Endometrial carcinoma (3); Ovarian carcinoma (3); Breast cancer,
Cataract, Marner type (2)
Norum disease (3); Fish-eye disease (3)
Spinocerebellar ataxia, type 4 (2)
Tyrosinemia, type II (3)
Urolithiasis, 2,8-dihydroxyadenine (3)
Chronic granulomatous disease, autosomal, due to deficiency of CYBA

Fanconi anemia, type A (3)
Mucopolysaccharidosis IVA (3)
{UV-induced skin damage, vulnerability to} (3); [Red hair/fair skin]
[Cystathioninuria] (1)
Canavan disease (3)
Bernard-Soulier syndrome (1)
Plasmin inhibitor deficiency (3)
Breast cancer (1)
Lissencephaly-1 (3)
Miller-Dieker lissencephaly syndrome (2)
Retinitis pigmentosa-13 (2)

Colorectal cancer, 114500 (3); Li-Fraumeni syndrome (3)
Cataract, anterior polar 2 (2)
Leber congenital amaurosis, type I, 204000 (3)
Cone dystrophy, progressive (2)
Charcot-Marie-Tooth neuropathy 1A, 118220 (3);
Sjogren-Larsson syndrome (3)
Smith-Magenis syndrome (2)
VLCAD deficiency (3)
Deafness, autosomal recessive 3 (2)
Choroidal dystrophy, central areolar (2)
Cystinosis (2)
Retinal cone dsytrophy 2 (2)

Psoriasis susceptibility (2)
Cataract, congenital, zonular, with sutural opacities (2)
Epidermolysis bullosa, junctional, with pyloric atresia, 226730 (3)
Anxiety-related personality traits (3)
Neurofibromatosis, type I (3); Watson syndrome, 193520 (3)
Malignant hyperthermia susceptibility 2 (2)
Leukemia, acute promyelocytic (1)
Epidermolytic palmoplantar keratoderma (3)
Epidermolysis bullosa simplex, Koebner, Dowling-Meara, and
Pachyonychia congenita, Jadassohn-Lewandowsky type, 167200 (3);
Pachyonychia congenita, Jackson-Lawler type, 167210 (3)

Wilms tumor, type 4 (2)
Muscular dystrophy, Duchenne-like, type 2 (3); Adhalinopathy,
Acetyl-CoA carboxylase deficiency (1)
Breast cancer-1, early onset (3); Ovarian cancer, sporadic (3)
Glycogen storage disease, type I (3)
Sanfilippo syndrome, type B (3)
Parkinsonism-dementia with pallidopontonigral degeneration (2)
Disinhibition-dementia-Parkinsonism-amyotrophy complex (2)
Epidermolytic hyperkeratosis, 113800 (3)
White sponge nevus (3)

?Hypertension, essential, 145500 (1)
[Acanthocytosis, one form] (3); [Elliptocytosis, Malaysian-Melanesian
Symphalangism, proximal (2)
Meckel syndrome (2)
Osteogenesis imperfecta, 4 clinical forms, 166200, 166210, 259420,
Glanzmann thrombasthenia, type A (3); Thrombocytopenia, neonatal
Glanzmann thrombasthenia, type B (3)
[Placental lactogen deficiency] (1)
Isolated growth hormone deficiency, Illig type with absent GH
{Myocardial infarction, susceptibility to} (3)
[Apolipoprotein H deficiency] (3)
Tylosis with esophageal cancer (2)
Myeloperoxidase deficiency (3)

Hyperkalemic periodic paralysis (3); Paramyotonia congenita, 168300
Cataract, congenital, cerulean type (2)
Galactokinase deficiency with cataracts (3)
Campomelic dysplasia with autosomal sex reversal (3)
Adrenoleukodystrophy, pseudoneonatal (2)
Retinitis pigmentosa-17 (2)
Russell-Silver syndrome (2)
Glycogen storage disease, type II (3)
Sanfilippo syndrome, type A (3)
?Leiomyomata, multiple hereditary cutaneous (2)

Holoprosencephaly-4 (2)
Glucocorticoid deficiency, due to ACTH unresponsiveness (1)
Bipolar affective disorder (2)
?Lynch cancer family syndrome II (2)
Niemann-Pick disease, type C (2); ?Niemann-Pick disease, type D,
Epidermolysis bullosa junctional, Herlitz type (3)
Sarcoma, synovial (1)
Amyloid neuropathy, familial, several allelic types (3);
Benign recurrent intrahepatic cholestasis (2)
Byler disease (2)
Pancreatic cancer (3)
Cone-rod retinal dystrophy-1 (2)
Familial expansile osteolysis (2)

Leukemia/lymphoma, B-cell, 2 (2)
Colorectal cancer (3)
Protoporphyria, erythropoietic (3); Protoporphyria, erythropoietic,
Lymphoma/leukemia, B-cell, variant (1)
?Tourette syndrome (2)
Methemoglobinemia due to cytochrome b5 deficiency (3)
Cerebellar ataxia, Cayman type (2)
Fucosyltransferase-6 deficiency (3)
Hypocalciuric hypercalcemia, type II (2)
Peutz-Jeghers syndrome (2)

Bleeding disorder due to defective thromboxane A2 receptor (3)
Leukemia, acute lymphoblastic (1)
Persistent Mullerian duct syndrome, type I, 261550 (3)
{Atherosclerosis, susceptibility to} (2)
C3 deficiency (3)
[Erythrocytosis, familial], 133100 (3)
Glutaricacidemia, type I (3)
Leprechaunism (3); Diabetes mellitus, insulin-resistant, with
Hypercholesterolemia, familial (3)
Leukemia, T-cell acute lymphoblastoid (2)
Liposarcoma (1)
Cerebral arteriopathy with subcortical infarcts and
Pseudoachondroplasia, 177170 (3); Epiphyseal dysplasia, multiple 1,
Severe combined immunodeficiency, HLA class II-negative

Hemiplegic migraine, familial, 141500 (3); Episodic ataxia type 2,
Exostoses, multiple, type 3 (2)
Mannosidosis, alpha- (1)
Prolidase deficiency (3)
Alzheimer disease-2, late onset (2)
Benign familial infantile convulsions (2)
Nephrosis, congenital, Finnish (2)
Leukemia/lymphoma, B-cell, 3 (2)
Deafness, autosomal dominant 4 (2)
Orofacal cleft-3 (2)

Hemolytic anemia due to glucosephosphate isomerase deficiency (3);
Malignant hyperthermia susceptibility-1, 145600 (3); Central core
Ovarian carcinoma, 167000 (2)
Maple syrup urine disease, type Ia (3)
Cone-rod retinal dystrophy-2 (2)
Hyperlipoproteinemia, type III (3)
Hyperlipoproteinemia, type Ib (3)

Myotonic dystrophy (3)
Xeroderma pigmentosum, group D, 278730 (3)
Heart block, progressive familial, type I (2)
DNA ligase I deficiency (3)
{Polio, susceptibility to} (2)
Glutaricaciduria, type IIB (3)
{Non-insulin dependent diabetes mellitus, susceptibility to} (2)
Hyperferritinemia-cataract syndrome, 600886 (3)

Hypogonadism, hypergonadotropic (3); ?Male pseudohermaphroditism
Retinitis pigmentosa-11 (2)
?Hypervalinemia or hyperleucine-isoleucinemia (1)
Creutzfeldt-Jakob disease, 123400 (3); Gerstmann-Straussler disease,
Diabetes insipidus, neurohypophyseal, 125700 (3)

?Fibrodysplasia ossificans progressiva (1)
Alagille syndrome (2)
Thrombophilia due to thrombomodulin defect (3)
Congenital hereditary endothelial dystrophy of cornea (2)
Corneal dystrophy, posterior polymorphous (2)
Cerebral amyloid angiopathy (3)
[Inosine triphosphatase deficiency] (1)
?Isolated growth hormone deficiency due to defect in GHRF (1);
Hemolytic anemia due to glutathione synthetase deficiency, 231900
MODY, type 1, 125850 (3)

Galactosialidosis (3)
Severe combined immunodeficiency due to ADA deficiency (3);
Pseudohypoparathyroidism, type Ia, 103580 (3); McCune-Albright
Epilepsy, benign neonatal, type 1, 121200 (3); Epilepsy, nocturnal
Shah-Waardenburg syndrome, 277580 (3)
?Hypoglycemia due to PCK1 deficiency (1)
Leukemia, transient, of Down syndrome (2)
Enterokinase deficiency (1)
Amyloidosis, cerebroarterial, Dutch type (3); Alzheimer disease-1,
Multiple carboxylase deficiency, biotin-responsive (3)
Amytrophic lateral sclerosis, due to SOD1 deficiency, 105400 (3)

Platelet disorder, familial, with associated myeloid malignancy (2)
Autoimmune polyglandular disease, type I (2)
Leukemia, acute myeloid (3)
Homocystinuria, B6-responsive and nonresponsive types (3)
Bethlem myopathy, 158810 (3)
Bethlem myopathy, 158810 (3)
Deafness, autosomal recessive 8 (2)
Down syndrome (1)
Holoprosencephaly-1 (2)
Leukocyte adhesion deficiency, 116920 (3)
Knobloch syndrome (2)
Hemolytic anemia due to phosphofructokinase deficiency (1)
Epilepsy, progressive myoclonic 1, 254800 (3)

Cataract, congenital, cerulean type 2 (2)
Cat eye syndrome (2)
?Conotruncal cardiac anomalies (2)
DiGeorge syndrome (2); Velocardiofacial syndrome, 192430 (2)
Thrombophilia due to heparin cofactor II deficiency (3)
Schindler disease (3); Kanzaki disease (3)
Rhabdoid tumors (2)
{Schizophrenia susceptibility-3} (2)
Schizophrenia disorder-4 (2)
Glutathioninuria (1)
[Gamma-glutamyltransferase, familial high serum] (2)
Bernard-Soulier syndrome, type B (2)
Opitz G syndrome, type II (2)

Transcobalamin II deficiency (3)
Leukemia, chronic myeloid (3)
Ewing sarcoma (3); Neuroepithelioma (2)
Sorsby fundus dystrophy, 136900 (3)
Neurofibromatosis, type 2 (3); Meningioma, NF2-related (3);
Meningioma, SIS-related (3); Dermatofibrosarcoma protuberans (3);
?Male infertility due to acrosin deficiency (2)
Adenylosuccinase deficiency (1); Autism, succinylpurinemic (3)
{?Parkinsonism, susceptibility to} (1); Debrisoquine sensitivity
Glucose/galactose malabsorption (3)
Sorsby fundus dystrophy (2)
Metachromatic leukodystrophy (3)

Methemoglobinemia, type I (3); Methemoglobinemia, type II (3);
Short stature (2)
Craniofrontonasal dysplasia (2)
Leukemia, acute myeloid, M2 type (1)
Ichthyosis, X-linked (3); Placental steroid sulfatase deficiency (3)
Focal dermal hypoplasia (2)
Microphthalmia with linear skin defects (2); Microphthalmia, dermal
Chondrodysplasia punctata, X-linked recessive, 302940 (3)
Kallmann syndrome (3)
Ocular albinism, Nettleship-Falls type (3)
Ocular albinism with sensorineural deafness (2)
Amelogenesis imperfecta (3)
Nance-Horan syndrome (2)
?N syndrome, 310465 (1)
Retinoschisis (2)
Charcot-Marie-Tooth neuropathy, X-linked-2, recessive (2)
Heterocellular hereditary persistence of fetal hemoglobin, Swiss type
Hypomagnesemia, X-linked primary (2)
Keratosis follicularis spinulosa decalvans (2)
Coffin-Lowry syndrome (2)
Hypophosphatemia, hereditary (3)
Pyruvate dehydrogenase deficiency (3)

Glycogenosis, X-linked hepatic, type I (3); Glycogenosis, X-linked
Mental retardation, X-linked, syndromic-1, with dystonic
Spondyloepiphyseal dysplasia tarda (2)
Retinitis pigmentosa-15 (2)
Gonadal dysgenesis, XY female type (2)
Paroxysmal nocturnal hemoglobinuria (3)
Agammaglobulinemia, type 2, X-linked (2)
Aicardi syndrome (2)
deafness, X-linked 6, sensorineural (2)
?Hypophosphatemia with deafness (2)
Mental retardation, X-linked-1, non-dysmorphic (2)
Opitz G syndrome, type I (2)
Partington syndrome II (2)
Pseudohermaphroditism, male (3)
Adrenal hypoplasia, congenital, with hypogonadotropic hypogonadism
Glycerol kinase deficiency (2)
?Retinitis pigmentosa-6 (2)
Deafness 4, congenital sensorineural (2)
Duchenne muscular dystrophy (3); Becker muscular dystrophy (3);
McLeod phenotype (3)
Night blindness, congenital stationary, type 2 (2)
Chronic granulomatous disease, X-linked (3)
Ornithine transcarbamylase deficiency (3)
Retinitis pigmentosa-3 (3)
Mental retardation, X-linked, syndromic-6, with gynecomastia and
?Gonadotropin deficiency (2); ?Cryptorchidism (2)
Mental retardation, Snyder-Robinson type (2)
Mental retardation, X-linked 9 (2)
Norrie disease (3); Exudative vitreoretinopathy, X-linked, 305390 (3)
Ocular albinism, Forsius-Eriksson type (2)
Properdin deficiency, X-linked (3)

Progressive cone dystrophy (2)
Night blindness, congenital stationary, type I (2)
Retinitis pigmentosa-2 (2)
Mental retardation, X-linked 14 (2)
Brunner syndrome (3)
Wiskott-Aldrich syndrome (3); Thrombocytopenia, X-linked, 313900 (3)
Dent disease, 600248 (3); Nephrolithiasis, X-linked recessive,
Nephrolithiasis, X-linked, with renal failure (2)
Anemia, sideroblastic/hypochromic (3)
Aarskog-Scott syndrome (3)
Incontinentia pigmenti, sporadic type (2)
Renal cell carcinoma, papillary, 2 (2)
Sarcoma, synovial (3)
?Mental retardation, X-linked nonspecific, with aphasia (2)
Mental retardation, X-linked 20 (2)
Mental retardation, X-linked, syndromic-2, with dysmorphism and
Mental retardation, X-linked, syndromic-3, with spastic diplegia
?Cataract, congenital total (2)
?Rett syndrome (2)
Spinal muscular atrophy X-linked lethal infantile (2)
Androgen insensitivity, several forms (3); Spinal and bulbar muscular
?Mental retardation, X-linked-2, non-dysmorphic (2)

Menkes disease, 309400 (3); Occipital horn syndrome, 304150 (3)
Anhidrotic ectodermal dysplasia (2)
?Anemia, sideroblastic, with spinocerebellar ataxia (2)
Severe combined immunodeficiency, X-linked, 300400 (3); Combined
Hemolytic anemia due to PGK deficiency (3); Myoglobinuria/hemolysis
Muscle glycogenosis (3)
Alpha-thalassemia/mental retardation syndrome, type 2, 301040 (3);
Wieacker-Wolff syndrome (2)
Mental retardation, X-linked, syndromic-4, with congenital
Torsion dystonia-parkinsonism, Filipino type (2)
Charcot-Marie-Tooth neuropathy, X-linked-1, dominant, 302800 (3)
Turner syndrome (1)
Allan-Herndon syndrome (2)
Ovarian failure, premature (2)
Deafness 3, conductive, with stapes fixation, 304400 (3)
Cleft palate, X-linked (2)
Choroideremia (3)
Agammaglobulinemia, type 1, X-linked (3); ?XLA and isolated growth
Megalocornea, X-linked (2)
?Panhypopituitarism, X-linked (2)
Alport syndrome, 301050 (3); Leiomyomatosis-nephropathy syndrome,
Leiomyomatosis, diffuse (1); ?Alport syndrome, X-linked, type 2 (1)
Deafness 1, progressive (3); Mohr-Tranebjaerg syndrome (3)
Fabry disease (3)
Pelizaeus-Merzbacher disease (3); Spastic paraplegia 2, 312920 (3)
Phosphoribosyl pyrophosphate synthetase-related gout (3)
?Amelogenesis imperfecta-3, hypoplastic type (2)

[Euthyroidal hyper- and hypothyroxinemia] (1)
Mental retardation, X-linked nonspecific, type 23 (2)
Cowchock syndrome (2)
Bazex syndrome (2)
Hypertrichosis, congenital generalized (2)
Lymphoproliferative syndrome, X-linked (2)
Heterotaxy, X-linked visceral (2)
Thoracoabdominal syndrome (2)
Mental retardation, X-linked, syndromic-5, with Dandy-Walker
Immunodeficiency, X-linked, with hyper-IgM (3)
Gustavson syndrome (2)
Simpson-Golabi-Behmel syndrome (2)
Split hand/foot malformation, type 2 (2)
Borjeson-Forssman-Lehmann syndrome (2)
Hypoparathyroidism, X-linked (2)
Lesch-Nyhan syndrome (3); HPRT-related gout (3)
Arthrogryposis, X-linked (spinal muscular atrophy, infantile,
Wood neuroimmunologic syndrome (2)
Lowe syndrome (3)
Albinism-deafness syndrome (2)
?Anophthalmos-1 (2)
Hemophilia B (3)
Fragile X syndrome (3)
Adrenoleukodystrophy (3); Adrenomyeloneuropathy (3)
Diabetes insipidus, nephrogenic (3)

Colorblindness, blue monochromatic (3)
Cardiomyopathy, dilated, X-linked fatal infantile (2)
Chondrodysplasia punctata, X-linked dominant (2)
Dyskeratosis congenita (2)
Endocardial fibroelastosis-2 (2); Barth syndrome (3)
Emery-Dreifuss muscular dystrophy (3)
Hemophilia A (3)
Mental retardation, X-linked, FRAXE type (3)
Mental retardation, X-linked, FRAXF type (3)
G6PD deficiency (3); Favism (3); Hemolytic anemia due
[?Homosexuality, male] (2)
Colorblindness, deutan (3)
Mucopolysaccharidosis II (3)
Incontinentia pigmenti, familial (2)
Intestinal pseudoobstruction, neuronal, X-linked (2)
Hydrocephalus due to aqueductal stenosis, 307000 (3); MASA
?Manic-depressive illness, X-linked (2)
Mental retardation-skeletal dysplasia (2)
Mental retardation, X-linked-3 (2)
Myotubular myopathy, X-linked (3)
Myopia-1 (2); Bornholm eye disease (2)
Nodular heterotopia, bilateral periventricular (2)
Otopalatodigital syndrome, type I (2)
Mental retardation with psychosis, pyramidal signs, and
Colorblindness, protan (3)

Goeminne TKCR syndrome (2)
{?Wernicke-Korsakoff syndrome, susceptibility to} (1)
Waisman parkinsonism-mental retardation syndrome (2)
Gonadal dysgenesis, XY type (3)
?Sertoli-cell-only syndrome (1)
?Sertoli-cell-only syndrome (1)

146300 (1)

hepatic, type II, 600649 (3)

dystrophy, 248200 (3)

recessive (3)

118200 (3); Dejerine-Sottas disease, myelin P(0)-related, 145900 (3)

immune (2)

Epidermolysis bullosa, generalized atrophic benign, 226650 (3)

susceptibility to} (3)

Hypothyroidism, congenital (3)
Hyperbetalipoproteinemia (3); Apolipoprotein B-100, ligand-defective

deficiency (1)
-3
254130 (2)

neonatal (1)
223100 (1)
100070 (3); Fibromuscular dysplasia of arteries, 135580 (3);

-1

148820 (3); Rhabdomyosarcoma, alveolar, 268220 (3);

143500 (3)

Epidermolysis bullosa dystrophica, recessive, 226600 (3);
with glioblastoma, 276300 (3); Muir-Torre syndrome, 158320 (3)

hyperparathyroidism, 239200 (3); Hypocalcemia, autosomal dominant,
systemic, due to aceruloplasminemia (3)
autosomal recessive (3); Night blindness, congenital stationery,

Thanatophoric dwarfism, types I and II, 187600 (3); Crouzon syndrome
Mucopolysaccharidosis Ih/s (3)
106600 (3)

alpha-fetoprotein] (3)
[Dysalbuminemic hyperzincemia] (3)
hematologic disorder (3)

105200 (3)
type (3)

Spinal muscular atrophy III (2)
muscular atrophy, HEXB-related (3)

cancer (3)
-2
lattice type I, 122200 (3); Reis-Bucklers corneal dystrophy (3)

Myelodysplastic syndrome, preleukemic (3); Myelogenous leukemia,
Startle disease, autosomal recessive (3); Hyperekplexia and spastic
Achondrogenesis Ib, 600972 (3)

albescens (3); Macular dystrophy (3); Retinitis pigmentosa, digenic

-1

(1); Plasminogen deficiency, types I and II (1)

syndrome, 146510 (3)
-3
194050 (3)

Hemorrhagic diathesis due to PAI1 deficiency (1)
214700 (3)

166220 (3); Ehlers-Danlos syndrome, type VIIA2, 130060 (3);
Wolff-Parkinson-White syndrome (2)
-3
dominant, 160800 (3); Myotonia levior, recessive (3)

Indian type (2)
Hyperchylomicronemia syndrome, familial (3); Combined hyperlipemia,

227200 (1)

deficiency (3); Aldosteronism, glucocorticoid-remediable (3)

multinodular (1); Goiter, nonendemic, simple (3)

sporadic (3)
?Basal cell carcinoma (2)
syndrome, 236670 (2)

type I, 130000 (2)

carcinoma, 155240 (3); Multiple endocrine neoplasia IIB, 162300 (3);

deficiency, 264070 (3)
Gaucher disease, variant form (3)

deficiency (3)
123150 (3); Apert syndrome, 101200 (3); Pfeiffer syndrome, 101600
responsive or unresponsive (3)

personality] (1)
Methemoglobinemias, beta- (3); Erythremias, beta- (3);
Hyperproinsulinemia, familial (3)
-3
-2
autosomal recessive (3)

late-onset corneal dystrophy (3); Foveal hypoplasia, isolated, 136520
subtype, 278740 (3)

hyperparathyroidism, carcinoid syndrome (2)

one form (3); Hypoalphalipoproteinemia (3); Amyloidosis, Iowa type,

factor (1)

susceptibility to} (2)

nonepidermolytic (3)
Epidermolysis bullosa simplex, Koebner type, 131900 (3);

(1)}

(3); Achondrogenesis-hypochondrogenesis, type II (3); Osteoarthrosis,

-2

109800 (3)

disease, one form (3)
hemolytic, fatal and near-fatal (3)
Dystonia, DOPA-responsive, 128230 (3)

adenoma, hyperfunctioning (3); Graves disease, 275000 (1);
disease, occlusive (3)
\`antithrombin\' Pittsburgh (3); Emphysema (3)

recessive (3)

syndrome, 203300 (1)
Virilization, maternal and fetal, from placental aromatase deficiency
182212 (3); Ectopia lentis, ?isolated (3)

[Hex A pseudodeficiency] (1)

Erythremias, alpha- (3); Heinz body anemias, alpha- (3)

-3
-3
-3

lobular (3)
-3

-3

Neuropathy, recurrent, with pressure palsies, 162500 (3);

Weber-Cockayne types, 131900, 131760, 131800 (3); Epidermolysis
Nonepidermolytic palmoplantar keratoderma, 600962 (3)

primary (1)

type] (3); Spherocytosis, hereditary (3)
166220 (3); Ehlers-Danlos syndrome, type VIIA1, 130060 (3);
alloimmune (1)
and Kowarski type with bioinactive GH (3)

(3); Myotonia congenita, atypical acetazolamide-responsive (3)

257250 (2)

[Dystransthyretinemic hyperthyroxinemia](3); Amyloidosis, senile

recessive, with liver failure (3)

acanthosis nigricans (3); Rabson-Mendenhall syndrome (3)
leukoencephalopathy (2)
132400 (3)
type, 209920 (2)

108500 (3); Spinocerebellar ataxia-6, 183086 (3)

Hydrops fetalis, one form (1)
disease, 117000 (3)

due to defective LH (1)
137440 (3); Insomnia, fatal familial (3)

Gigantism due to GHRF hypersecretion (1)
(1); 5-oxoprolinuria, 266130 (1)

Hemolytic anemia due to ADA excess (1)
polyostotic fibrous dysplasia, 174800 (3); Somatotrophinoma (3);
frontal lobe, 600513 (3)
APP-related (3); Schizophrenia, chronic (3)

Schwannoma, sporadic (3)
Giant-cell fibroblastoma (3)
-3

Methemoglobinemia, type III (3)
aplasia, and sclerocornea (2)
-2

hepatic, type II (3)
movements, ataxia, and seizures (2)
-3
Cardiomyopathy, dilated, X-linked (3)
obesity (2)

type I, 310468 (3); Hypophosphatemia, X-linked recessive, type III
cerebral atrophy (2)
-2
atrophy of Kennedy, 313200 (3); Prostate cancer (3); Perineal

immunodeficiency, X-linked, moderate, 312863 (3)
due to PGK deficiency (3)
Juberg-Marsidi syndrome, 309590 (3)
contractures and low fingertip arches (2)
hormone deficiency, 307200 (3)
308940 (1)

malformation, basal ganglia disease, and seizures (2)

X-linked) (2)

to G6PD deficiency (3)
syndrome, 303350 (3); Spastic paraplegia, 312900 (3)
macroorchidism (2)

	4(Eno1)
	4(Hmgcl)
	4(Agrn)
	4(Gnb1)
	4(Tfs1)
	4(Scp2)
	3(Rnu1b1)
	4(Htr1d)
	4(Plod)
	4(Tnfr1)
	(C1qb)
	4(Pnd)
	4(Nppb)
	4(Pgd)
	4(Pax7)
	4(Fgr)
	4(Elp1)
	4(D4H1S1733E)
	4(Chc1)
	4(Elk)

	4(Plc)
	4(Lap18)
	4(Mfap2)
	4(Apnh, Nhe1)
	4(Nbor, Oprd1)
	4(Akp2)
	4(Aml2, Cbfa3)
	4(Cd30)
	4(Eya3)
	4(Luzp)
	4(Riz)
	4(Ox40)
	(Gja4)
	4(Pla2s)
	4(Lck)
	4(Guca2)

	4(Lmyc1)
	4(Ak2)
	4(Fuca)
	4(Inpp5b)
	4(Urod)
	4(Cyp4a)
	4(Slc6a9)
	4(Col9a2)
	4(Fabph1)
	4(C8b)
	4(Ptprf)
	4(Scl)
	4(Jun)
	3(Vcam1)
	4(Ipp)

	4(Jak1)
	?4(Nfia)
	3(Ptger3)
	3(Ptgfr)
	3(Acadm)
	4(Lepr)
	4(Pde4b)
	4(Pgm2)
	3(Rpe65)
	3(Rabggtb)
	5(Gfi1)
	3(Pmp70)
	3(Amy1)
	3(Amy2)
	3(Acrb2)
	3(Col11a1)
	3(Glclr)
	3(Cd53)
	3(Adora3)
	3(Ampd1)
	3(Ampd2)
	3(Csfm)

	3(Nras)
	3(Ly37)
	3(Hsd3b1)
	3(Hsd3b2)
	3(Ngfb)
	3(Gnai3)
	3(Gnat2)
	3(Tshb)
	3(Atp1a1)
	3(Nscl2)
	1(Eph1)
	13(Nid)
	1(Pmx)
	1(Syt2)
	3(Gja8)
	3(Caga)
	3(Cagb)
	3(Mef2d)
	1(Tnni1)

	3(Arnt)
	3(flg)
	3(Gba)
	13(Hist1)
	3(Ior)
	3(Mcl1)
	3(Mtxn)
	3(Muc1)
	3(Pk1)
	3(Capl)
	3(Cacy)
	1(Spna1)
	3(Epl1)
	3(Epl3)
	3(Epl4)

	1(Sap)
	1(Apoa2)
	1(Atpa3)
	3(Ly38)
	3(Cd1d)
	1(Crp)
	1(Ly17, Cd32)
	3(Fcgr1)
	1(Bcm1)
	1(Ly9)
	1(Mpp)
	1(Nscl)
	1(T3z, Cd3z)
	1(Otf1)
	1(Rxrg)
	1(Tpm3)
	1(Usf1)
	1(Atp1b1)
	1(Cf5)
	1(Fcer1a)

	1(Fcer1a)
	1(Pbx)
	3(Tric5)
	1(At3)
	1(Elam)
	1(Lnhr)
	1(Grmp)
	1(Abll)
	1(Csrp)
	1(Astt)
	1(Ncf2)
	3(Bglap)
	1(Pdc)
	1(Lamb2)
	1(Ly5)
	1(F13b)
	1(Myog)

	1(C4bp)
	1(Cchl1a3, mdg)
	1(Cd34)
	1(Cr2)
	1(Elk4)
	1(Cfh)
	1(Ren1)
	1(Eprs)
	(Prox1)
	1(Tgfb2)
	1(Hlx1)
	1(Pep3)
	8(Agt)

	8(Actsk1)
	13(Ryr2)
	10(Prim1)
	3(Gbp1)
	12(Acp1)
	12(Odc)
	12(Pomc1)
	12(Tpo)
	12(Rrm2)
	12(Nmyc1)
	12(Synd1)
-3	12(Apob)

	17(Alk)
	12(Ppp1cb)
	17(Xd)
	5(Mpv17)
	17(Sos1)
	17(Prkr)
	17(Pigf)
	11(Mor2)
	11(Rab1)
	6(Add2)
	11(Meis1)
	6(Anx4)
	6(Egr4)

	6(Tgfa)
	11(Rel)
	6(Ly2)
	6(Ly3)
	6(Igk)
	6(Igkv)
	6(Igkc)
	6(Igkrs)
	12(Reg1)
	?3(Reg2)
	6(Capr)
	6(Sftp3)
	6(Fabpl)
	1(Inhbb)
	8(Vpp3)
	2(Glvr1)
	1(Laf4)
	1(Il1r)
	2(Pax8)

	1(Il1rb)
	1(En1)
	2(Il1a)
	2(Il1b)
	2(His1)
	2(Scn2a)
	2(Scn1a)
	2(Scn3a)
	2(Acra)
	1(Nppc)
Ehlers-Danlos syndrome, type III (3)	1(Col3a1)
	2(Gad1)
	2(Evx2)
	2(Hox4)
	2(Hox4.1)
	2(Hox4.2)
	2(Hox4.3)
	2(Hox4.4)
	2(Hox4.5)
	2(Hox4.6)
	2(Hox4.7)

	2(Hox4.8)
	2(Hox4.9)
	2(Neb)
	2(Ttn)
	2(Dlx2)
	1(Inpp1)
	2(Neurod)
	1(Gls)
	1(cryba2)
	1(Mylt)
	1(Creb1)
	1(Cyla4)
	1(Cd28)
	1(Acrd)
	1(Acrg)
	1(Igfbp2)
	1(Cryg1)
	1(Len2)
	1(Inha)
	1(Cyp27)

	1(Idh1)
	1(Fn1)
	1(Acadl)
	1(Des)
	1(Il8r2)
Craniofacial-deafness-hand syndrome, 122880 (3)	1(Sp)
	1(Nramp)
	1(Scg2)
	1(Tp1)
	1(Tns)
	1(Vil)
	1(Irs1)
	1(Ae3)
	2(Gcg)
	1(Akp3)
	4(Akp2)
	1(Col6a3)
	1(Sag)

	1(Ugt1)
	9(Cck)
	6(Pang)
	6(Itpr1)
	6(Il5r)
	4(Rad23b)
	6(Raf1)
	6(Xpc)
	6(Sec13n)
	6(Fbln2)
	6(Slc6a6)
	14(Rarb)
	9(Nktr)
	(Tdgf1)
	9(Catnb)

	9(Bgl)
Epidermolysis bullosa, pretibial, 131850 (3)	
	7(Tnnc1)
	14(Intin1)
	14(Intin3)
	9(Acy)
	9(Cmkbr1)
	9(Dag1)
	9(Gnai2)
	9(Gnat1)
	9(Hgfl)
	?9(sr)
	6(Hrh1)
	14(Cch1a2)
	6(mi)

	16(Pit1,dw)
	9(Mylc)
	14(Pkcd)
	6(Syn2)
	6(Trh)
	16(Ctpct)
	6(Rpn1)
	16(Adcy5)
	16(Stf1)
	9(Trf)
	9(Crbp)

	16(aku)
	9(Ltf)
601198 (3)	
	9(Cp)
rhodopsin-related (3)	6(Rho)
	9(Mme)
	9(Crbp2)
	3(Sis)
	16(Apod)
	16(Thpo)
	16(Bcl6)
	3(Fim3)
	16(Crarf)

	16(Fhf1)
	16(Smst)
	?16(Bst)
	16(Dlgh1)
	16(Gap43)
	6(Gata2)
	5(Csn2)
	5(Add1)
	5(Dagk4)
	5(Drd1b)
with acanthosis nigricans (3); Craniosynostosis, nonsyndromic (3)	5(Fgfr3)
	5(Gprk2l)
	5(Hdh)
	5(Idua)
	5(Pdeb, rd)
	5(Hox7)
	5(Drd5)

	5(Qdpr)
	5(Rfc1)
	7(Gabra4)
	5(Pgm1)
	5(Cncg)
	5(Bmp3)
	5(Gabra2)
	5(Gabrb1)
	5(Txk)
	5(Pep7)
	5(Afp)
	5(Alb1)
	5(Gc)
	5(Kit; W)
	5(Pdgfra)
	5(Cenpc)
	5(Ugt2b4)

	5(Areg)
	5(Btc)
	5(Ambn)
	5(Fgf5)
	5(Mgsa)
	5(Mip2a)
	5(Mip2b)
	5(Igj)
	5(Ibsp)
	5(Spp1)
	5(Gnrhr)
	3(Adh1,3)
	19(Pdhal)
	3(Mtp)
	3(Lef1)

	3(Egf)
	3(Fgf2)
	3(Il2)
	3(Cyca)
	3(Fgg)
	3(Fabpi)
	8(Ucp)
	8(Aga)
	3(Glur2)
	3(Etfdh)

	8(Ant1)
	8(cf11)
	?8(myd)
	8(Kal3)
	8(Mtnr1a)
	5(Cckar)
	8(Cpe)
	3(Bmn)
	13(Adcy2)
	13(Dat1)
	15(Myo10)
	13(Srd5a1)
	15(Mlvi2)
	15(Ptgerep2)
	15(C6)
	15(C7)

	15(Eaat1)
	15(Ghr)
	15(Lifr)
	18(Syt4)
	13(Ctla3)
	13(Msh3)
	13(As1)
	13(Htr1a)
	13(Dhfr)
	13(Crhbp)
	13(Cycb4)
	13(Pde4D)
	13(Cspg2)
	13(Naip)
	13(Cf2r)
	13(Pik3r1)
	13(Hex2)

	13(Gap)
	13(Hmgcr)
	13(mef2c)
	13(Tcfcoup1)
	1(Pam)
	13(Nec1)
	18(Mcc)
	18(Min, Apc)
	11(Fert)
	18(Camk4)
	11(U2af1rs1)
	18(Hegfl)
	18(Fbn2)
	13(Neurod3)
	11(Illbp)
	18(Lmnb)
	18(Lox)
	18(Catna1)
	18(Grl1)
	18(Pdgfr)
	18(Cdx1)
	18(Cd14)
	11(Csfgm)
	18(Egr1)

	11(Il3)
	11(Il4)
	11(Il5)
	13(Il9)
acute (3)	11(Irf1)
	18,X(mot2)
	11(Tcf7)
	11(Il12b)
	11(Glyt1)
	18(Pde6a)
	11(Sparc)
	11(Gm2a)
	18(Ii)
paraparesis (3)	11(spd)
	11(Itk)
	18(Adrb2)
	11(Adra1)
	11(Glur1)
	11(hmmr)
	18(Fim2)
	17(Csx)
	11(Flt4)
	11(Gabra1)

	13(Fgfr4)
	13(Vla1)
	13(Spi3)
	7(Mod2)
	13(Tcfap2)
	13(Sca1, Atx1)
	13(Fim1)

	11(Prl)
	17(Mog)
	17(Pxaaa1)
	17(Bf)
	17(C2)
	17(C4)
	17(C4)
	17(Col11a2)
	17(Cyp21)
	17(Ke4)
	17(Ke6)
	13(Mr2, Hfe)
	17(H2)
	17(H2L)

	17(H2l)
	17(Qa)
	17(Hsp70)
	17(Lmp2)
	17(Tnfb)
	17(Nep)
	17(Neu1)
	17(Nfya)
	17(Otf3)
	17(rd)
	17(Ke3)
	17(Rxrb)
	17(Ham1)

	17(Ham2)
	17(Tnfa)
	17(Glo1)
	17(tcp11)
	17(Znf76)
	17(Upg1)
	17(Pim1)
	17(Waf1)
(3); Butterfly dystrophy, retinal (3)	17(rds)
	17(Glp1r)
	17(Mut)
	17(Tcfeb)
	17(Tpx1)
	9(Gsta)
	1(dt)
	9(Glclc)
	1(Tfap2b)
	2(Prim2)

	1(Bpag1)
	9(Mod1)
	9(Pgm3)
	4(Gabbr1)
	4(Gabbr2)
	17(Bkma1)
	10(Fyn)
	10(Col10a1)
	10(Gja1)
	4(Tsha)
	17(Hh1)
	13(Mak)
	10(Myb)

	10(Ros1)
	10(dy, Lamm)
	10(Ly41, Pca1)
	10(Macs)
	10(Pcmt1)
	10(Ifgr)
	10(Dmdl)
	10(Oprm)
	17(Mas1)
	10(Esr)
	17(Sod2)
	17(Tcp1)
	17(Igf2r)
	17(Plg)
	17(T)
	17(Thbs2)
	17(Tcp10)
	9(Col12a1)

	17(Dgpt)
	13(Vgr1)
	6(Ggc)
	13(Ral)
	6(Ica1)
	5(Il6)
	12(Twist)
	5(Psph)
	6(Npy)
	6(Lit, Ghrhr)
	6(Hox1)
	6(Hox1.6)
	6(Hox1.5)
	6(Hox1.4)
	6(Hox1.3)
	6(Hox1.2)
	6(Hox1.1)

	6(Hox1.7)
	6(Hoxa13, Hd)
	13(Tcrg)
	13(Inhba)
	5(Actb)
	6(Aqp1)
	13(Amph)
	2(Blvr)
	13(Xt)
	11(Adcy1)
	5(Mor1)
	11(Erbb)
	5(Phkg)
	5(Asl)
	5(Nfe2u)
	5(Eln)

	5(Limk1)
	5(Ptpn12)
	5(Epo)
	5(Gnai1)
	6(Nkna)
	5(Gnb2)
	5(Pgy1)
	5(Gus)
	5(Ache)
	6(Pon1)
	5(rl)
	6(Pax4)

Osteoporosis, idiopathic, 166710 (3); Marfan syndrome, atypical (3)	6(Cola2)
	6(Cyp3)
	6(Met)
	6(Irp, Wnt2)
	1(Lamb1)
	6(Cftr)
	6(ob)
	6(Bcp)
	6(Mest)
	6(Fln2)
	6(Cpa)
	6(Try1)
	6(Ptn)
	10(Braf)
	6(adr, Clc1)
	6(Tcrb)
	5(Ae2)

	5(cdk5)
	5(En2)
	5(Nos3)
	5(Htr5a)
	5(Dppx, Dpp6)
	5(Epim)
	5(Zp3)
	8(Nat1)
	8(Nat2)
	14(Gata4)
	8(Defcrrs1)
	8(Defcr)
	14(Blk)
familial (3)	8(Lpl)
	8(Fnta)
	19(Slc18a1)
	14(Epb4.9)

	8(Gr1)
	14(Bmp1)
	14(Nfl)
	14(Sftp2)
	14(Sgp2, Clu)
	14(Ephx2)
	14(Gnrh)
	8(Plat)
	8(Adrb3)
	4(Calb)
	8(nb)
	8(Polb)
	16(Cebpd)
	16(scid)
	4(Mos)
	4(Car)
	3(Crh)
	4(Gem)
	4(Lyn)

	3(Car1)
	3(Car2)
	3(Car3)
	4(Cbfa2t1h)
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	15(Trhr)
	15(Gpt1)
	15(Fadk)
	15(nov)
	15(Myc)

	15(Tgn; cog)
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	8(Glra3)
	8(Zfp2)
	19(Rln1)
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	19(Jak2)
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	4(Ak3)
	19(Snf2l2)
	4(b;trp1)
	4(Ifa)
	4(Aco1)

	4(Ifb)
	4(tek)
	4(Rmrpn)
	4(Cntfr)
	4(Galt)
	4(Ggtb)
	4(Il11ra, Etl2)
	4(Pax5)
	4(Lyb2)
	2(Fpgs)
	4(Ptprd)
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	?19(dn)
	19(Ahd2)
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	13(Ctsl)
	13(Gas1)

	13(Syk)
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	13(Facc)
	13(Ptc)
	4(Tal2)
	4(Txn)
	4(Musk)
	4(Intin4)
	4(wi)
	2(Ftzf1)
	4(Hxb)
	2(Pbx3)
	2(sar)
	2(Spna2)
	4(Pappa)
	4(Lv)
	2(Ass1)
	2(C8g)
	2(Dbh)
	2(Grp78)
	2(Gsn)
	2(Lcn1)

	2(Lcn2)
	2(Paep)
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	2(Surf)
	2(Surf2)
	2(Surf4)
	2(Surf5)
	2(Surf6)
	2(Abl)
	2(Ak1)
	2(Hc)
	2(D2H9S46E)
	2(Eng)
	2(Epb7.2)
	4(Ncbp)
	4(Xpa)
	4(Orm1)
	4(Orm2)
	2(Col5a1)
	2(Ptgds)
	2(Lhx3)
	2(Notch1)
	2(Rxra)
	4(Ireb1)

	19(Pcsk5)
	2(Intin2)
	2(Il2ra)
	2(Il15ra)
	2(Mrc1)
	2(Vim)
	18(Crem)
	2(Gad2)
	14(Adk)
	10(Pyp)
	14(Rbp3)
Hirschsprung disease, 142623 (3)	
	14(Mbl1)
	10(Ank3)

	10(Tfam)
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	14(Amx7)
	10(Krox20; Egr2)
	10(Dcoh)
	10(Hk1)
	10(Prf1)
	10(Psap)
	14(Sftp1)
	19(Tdt)
	8(Zfp4)
	19(Ide)
	19(ep, ru)
	14(Glud)
	14(Plau)
	19(Rbp4)
	19(Lip1)
	19(Dac)
	19(Adra2)
	19(Adrb1)

	19(Fas1)
	18(Kns)
	19(P4502c)
	19(Got1)
	19(Bpag2)
	19(Cyp17)
	7(Cyp2e)
	19(Mxi1)
	19(Pax2)
	19(Slc18a2)
	19(Fgf8)
	7(Uros)
	19(Pgam1)
(3); Beare-Stevenson cutis gyrata syndrome, 123790 (3)	7(Fgfr2)
	7(Oat)
	7(Ptpre)
	18(Tpl2)
	2(Ly24)

	7(Kip2)
	7(H19)
Heinz body anemias, beta- (3); HPFH, deletion type (3)	7(Hbb)
	7(Hras1)
	7(Igf2)
	6(Ins1); 7(Ins2)
	7(Rrm1)
	7(Th)
	7(Cckbr)
	7(Ldh3)
	7(Ldh1)
	7(Myod1)
	7(Smpd1)
	7(Pth)
	7(Tph)
	7(Calc)

	7(Ptpn5)
	7(Saa1)
	7(Saa4)
	7(Art1)
	7(Kcnc1)
	7(Ttg1)
	1(Bdnf)
	2(Cas1)
	15(Ly6)
	2(Fshb)
-3	2(Sey)
	2(Rag1)
	2(Rag2)
	2(Wt1)
	2(Eaat2)
	2(Acp2)

	2(Mdk)
	2(Cf2)
	7(Syt5)
	7(Tapa1)
	19(Adrbk1)
	19(Mdu1)
	2(Catns)
	19(Fen1)
	19(Emk1)
	19(Fth)
	19(Osbp)
	19(Cntf)
	19(Ly1)
	19(Ly44)
	19(Fau)

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	7(Int2)
	19(Gst3)
	19(Plcb3)
	7(Ppp1a)
	19(Pygm)
	7(hph2)
	19(Rosp1)
	7(Rt6)
	19(Sea)
	7(Ucp2)
	9(Es17)
	19(Ighmbp2)
	19(Glnn)
	19(Pc)
	2(Kcna4)

	7(Omp)
	7(sh1))
	7(sh1, Myo7a)
	7(Garp)
	7(Tyr)
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	9(Pgr)
	9(Glur4)
	9(Scn2b)
	9(Ilb1bc)
	9(Atm)
	9(Grik4)
107680.0010 (3)	9(Apoa1)
	9(Apoa4)
	9(T3d)
	9(T3e)
	9(T3g)

	9(All1)
	9(Itm1)
	9(Aplp2)
	9(Ncam)
	9(Cbl2)
	9(Ets1, Fli1)
	9(Ups)
	9(Thy1)
	9(Obcam)
	6(Ly4)

	6(Gapd)
	6(Vwf)
	6(A2m)
	6(Prp)
	6(Tnfr2)
	6(Gnb3)
	6(Kcna1)
	6(Kcna5)
	6(Kcna6)
	6(Mprd)
	6(Ntf3)
	6(Hcph)
	6(Scnn1)

	6(Tnfcr)
	6(Tpi1)
	6(Ldh2)
	6(Kras2)
	6(Pthlh)
	6(Siat8)
	6(Nmdar2b)
	6(Gucy2c)
	10(Cs)
	6(Mglap)
	6(Syb1)
	10(Syt1)
	15(Itga5)
	15(Krt2)
Epidermolysis bullosa, Weber-Cockayne type, 131800 (3)	
	15(Adcy6)
	10(Cd63)
	15(Prph)
	15(Tegt)
	15(Int1, Wnt1)

	15(Aqp2)
	15(Ela1)
	15(np10)
	15(Hox3)
	15(Hox6.2)
	15(Hox6.1)
	15(Hox3.1)
	15(Hox3.2)
	10(Mip)
	15(Nfe2)
	15(Rarg)
	2(med, Scn8a)
	10(D12S53Eh)
	10(Myo1a)

	10(Inhbc)
	15(Sp1)
	15(A2mr)
precocious (3); Wagner syndrome, type II (3); SMED Strudwick type (3)	
	15(Itgb7)
	10(Gli)
	10(Dagk1)
	10(Ifg)
	10(Mdm2)
	10(pg, Hmgic)
	10(Myf6)
	10(Pep2)
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	10(Sl; Scf)
	10(Tmpo)
	10(Mel18)
	10(Hstd)
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	10(Igf1)
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	6(Scnn1)

	11(Atpb2)
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	10(Pah)
	5(Tbx3)
	5(Tbx5)
	10(Ppp1cc)
	4(Aldh2)
	5(Tcf1)
	10(Tra1)
	5(Nos1)
	15(Gdc1)

	15(Pfk4)
	14(Gjb2)
	14(Gja3)
	5(Flt3)
	5(Hmg1)
	5(Ipf1)
	5(Rec1)
	5(Brca2)
	14(Htr2)
	14(Rb1)
	14(Es10)
	8(Atp7b)

	14(Tyrp2)
	14(Pcca)
	1(Tpp2)
	1(Ercc5)
	8(Lerk5)
	8(Col4a1)
	8(Col4a2)
	8(Cf10)
	14(Fhf4)
	8(Lamp1)
	12(Yy1)
	14(Ang)
	14(Dad1)
	12(Pigh)
	14(Nrl)
	14(Adcy4)
	14(Cebpe)
	14(Ctla1)

	14(Tcra)
	14(Tcrd)
	14(Apex)
	14(Myhca)
	14(Np1,2)
	12(Sos2)
	12(Pygl)
	12(Sptb1)
	14(Bmp2b1)
	12 (Myn)
	12(Tgfb3)
	12(Plgf)
	12(Hspa2)

	12(Fos)
	12(Hox10)
	12(tw)
Hyperthroidism, congenital (3)	12(Tshr)
	12(Chga)
	12(Crip)
	14(Dnecl)
	12(iv)
	12(Gsc)
	12(Aat)
	12(Akt)
	12(Igh)

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	7(p)
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	7(Tjp1)

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	7(Acra7)
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	2(Epb4.2)
	2(Sdh1)
	2(Thbs1)
	2(Slc12a1)
	2(Rad51)
	2(Canp3)
	2(Ltk)
	2(Tyro3)
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	9(Tpm1)
	9(Cyp1a1)
	2(Mrg1)
	9(Rbp5)
	9(Cyp1a2)

	9(Mpi1)
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	9(Hexa)
	13(Etfa)
	9(Acra3)
	9(Acra5)
	9(Acrb4)
	7(Igf1r)
	7(Fur, Pcsk3)
	7(Mef2a)
	7(Pcsk6)
	7(Rlbp1)
	7(Agc1)
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	7(Tcfcoup2)
	11(Hba)
	11(Hba)
	11(Mpg)

	17(Pkd1)
	17(Ccnf)
	16(Prm1)
	16(Prm2)
	16(Tnp2)
	17(Tsc2)
	16(Myh11)
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	7(Stp)
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	8(Mt1)
	8(Mt2)
	8(Ces1)

	8(Got2)
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	8(Sntb2)
	8(Um)
	8(Pcad)
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	8(Nmor1)
	8(Hp)
	8(Lcat)
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	8(Aprt)
	8(Plcg2)
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	8(Mc1r)
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	11(Zfp3)
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	11(Myh)

	11(Rpo21)
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	11(Trp53)
	11(Asgr1)
	11(Shbg)
	11(Zfp2)
	11(Acrb)
	11(Ahd4)
Dejerine-Sottas disease, PMP22 related, 145900 (3)	11(Tr)
	11(Serk1)
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	11(Asgr2)
	11(Atp1b2)
	11(Nos2)

	11(Hnf2)
	11(Esa1)
	11(Mip1a)
	11(Cryba1)
	11(Htt)
	11(Evi2)
	11(Supt6h)
	11(Erba)
	11(Csfq)
	11(Neurod2)
	11(Rara)
bullosa simplex, recessive, 601001 (3)	

	?11(Ppy)
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	11(Brca1)
	11(Cnp)
	11(Fhf3)
	11(Gast)
	11(Gfap)
	11(Jup, Pkgb)
	11(Vpp1)
	11(Wnt4)
	11(Hox2)
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	11(Hox2.8)
	11(Hox2.7)
	11(Hox2.6)
	11(Hox2.2)
	11(Hox2.2)
	11(Hox2.3)
	11(Hox2.4)
	11(Hox2.5)
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	11(Ngfr)
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	(Mip1b)
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	11(Nfe2l1)
	11(Sfrs1)
Osteoporosis, idiopathic, 166710 (3)	11(Cola1)
	11(Pkca)
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	13(Pl2)
	11(Gh)
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	11(Tbx2)
	11(Tse1)
	11(Umph2)
	11(Apoh)
	11(Mpo)

	11(Efp)
	11(Glk)
	11(Grb2)
	11(Ts, Sox9)
	11(Pdeg)
	11(Timp2)
	11(Tk1)
	11(Myla)
	11(Sfrs2)

	17(Lama)
	18(Ptpt)
	18(Mc2r)
	18(Tw)
	18(spm)
	18(Ncad)
systemic (3); Carpal tunnel syndrome, familial (3)	18(Palb)
	18(Dsc3)
	18(Dsg1)
	18(Dsg3)
	8(Mep1b)
	18(Grp)
	18(Gnal)

	1(Bcl2)
	18(Dcc)
	18(Mbp, shi)
	18(Cbln1)
	18(Nfatc)
	18(Pep1)
	10(Bsg)
	10(Gzmm)
	?8(Nfic)
	8(Nfix)

	10(Tbxa2r)
	10(Amh)
	17(C3)
	9(Epor)
	9(Icam1)
	17(Myo1f)
	10(Sap62)
	9(Acp5)
	8(Gcdh)
	8(Insr)
	8(Junb)
	8(Rad23a)
	9(Ldlr)
	8(Lyl1)
	9(Pde4a)
	7(Tnni3)

	8(Jund)
	8(tg, Cacl1a4)
	10(Gna11)
	10(Gna15)
	?8(Mef2b)
	8(Man2b1)
	7(Pep4)
	7(Syt3)
	7(Atpla3)
	7(Aps)
	7(Bcl3)
	7(Ckmm)
	7(Cebpa)
	7(Usf2)
	7(Atp4a)
	7(Ccne)

	7(Gpi1)
	7(Mag)
	7(Ryr)
	7(Zfp36)
	7(Lipe)
	7(Tgfb1)
	7(Apoe)
	7(Bgp1)
	7(Cyp2a)
	7(Cyp2b)
	7(Cyp2f1)
	7(Grik5)
	7(Xrcc1)

	7(Dm)
	7(Ercc2)
	7(Lig1)
	6(Mok2)
	9(Pvs)
	7(Trsp)
	7(Kal)
	7(Dbp)
	7(Etfb)
	7(Fosb)
	7(Ngfg)
	7(Ptgir)
	10(Kcnc2)
	10(Kcnc3)

	7(Lhb)
	7(Lim2)
	7(Pkcc)
	10(Mif)
	7(Ntf5)
	10(Pcsk4)
	8(Pde4c)
	7(Otf2)
	7(Rras)
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	2(Prnp)
	2(Avp)
	2(Oxt)
	2(Ptpa)

	2(Sn)
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	2(Bmp2a)
	2(Pax1)
	2(Nec2)
	2(Snap)
	2(Pygb)
	2(Thbd)
	2(Cst3)
	2(Hnf3b)
	2(Itp)
	2(a)
	2(Rbl1)
	2(Snta1)
	2(Clg4b)
	2(Sdc4)
	2(Src)
	2(Pltp)
	2(Rpn2)
	2(Hnf4a)
	2(Top1)

	2(Cd40)
	2(Cebpb)
	2(Eya2)
	2(Mybl2)
	2(Ppgb)
	2(Ada)
Pituitary ACTH secreting adenoma (3)	2(Gnas)
	2(Kcnb1)
	2(Mc3r)
	2(Tfap2c)
	2(Acra4)
	2(Cyp24)
	2(Edn3)
	2(Nfatp)
	2(Pck1)
	11(Adra1a)
	2(Bmp7)
	16(App)
	16(Glur5)
	16(Crfb4)
	16(Prgs)
	16(Ifrc)
	16(Girk2, wv)
	16(Sod1)
	16(Tiam1)

	16(Ifgr2)
	16(mmb)
	16(Cbr1)
	10(S100b)
	17(Cbs)
	10(Col6a1)
	10(Col6a2)
	10(Col18a1)
	17(Crya1)
	16(Ets2)
	7(Ly15)
	16(Mx1)
	17(Pfkl)
	17(Tff3)
	16(Mx2)

	16(Tuple1)
	15(Ku70)
	16(Igl1)
	16(Comt)
	16(Dgsi)
	10(Gnaz)
	16(Prkm1)
	5(Crybb1)

	5(Crybb2)
	5(Crybb3)
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	11(Tcn2)
	10(Bcr)
	15(Lgals1)
	15(Pva)
	11(Lif)
	11(Nfh)
	11(Nf2)
	15(Pdgfb)
	15(Gad3)
	15(Tef)
	15(Acr)
	15(Cyp2d)
	15(Fbln1)
	15(Bzrp)
	15(As2)

	15(Dia1)
	19(Csf2ra)
	X,Y(Sts)
	X(Apxl)
	14(Il3ra)
	X(Oa1)
	X(Amel)
	?X(Xcat)
	X(Pola)
	X(Zfx)
	X(Hyp, Gyr)
	X(Pdha1)

	X(Piga)
	X(U2af1rs2)
	X(Glra2)
	X(Xid)
	X(Gy)
	X(Smage1/2)
	X(Ahch)
	X(Gyk)
	X(Dmd)
	X(Cybb)
	X(spf; Otc)
	X(Ndp)
	X(Pfc)
	X(Araf)
	X(Syn1)

	X(Timp)
	X(Gf1)
	X(Maoa)
	X(Maob)
	X(Syp)
	X(Wasp, ?sf)
-3	X(Clcn5)
	X(Tfe3)
	X(Smcx)
	X(Sb1.8)
	X(Alas)
	X(Fgdy)
	X(Td)
	X(Elk1)
hypospadias (3); Breast cancer, male, with Reifenstein syndrome (3)	X(Tfm)
	X(Msn)

	X(Eplg2)
	X(Mnk)
	X(Ta)
	X(Il2rg)
	X(Pgk1)
	X(Phka)
	X(Xh2)
	X(Ccg1)
	X(Gjb1)
	X(Rps4x)
	X(Cdx4)
	X(Xce)
	X(xid, Btp)
	X(Ags)
	X(Plp(jp))
	X(Agtr2)

	X(Htr2c)
	X(Lamp2)
	X(Glur3)
	X(CD40l)
	X(Sox3)
	X(Hprt)
	X(Mcf2)
	X(Cdr)
	X(Cf9)
	X(Fmr1)
	X(Ald)
	X(Bgn)

	X(Bpa)
	X(F8a)
	X(Cf8)
	X(Fln1)
	X(G6pd)
	X(Gabra3)
	X(Rsvp)
	X(Gdx)
	X(Hcfc1)
	X(Ids)
	X(?Str)
	X(L1cam)
	X(Mecp2)
	X(Emp55)
	X(P3)
	X(Rsvp)

	X(Slc6a8)
	X(Fhf2)
	Yp(Tdy, Sry)
	Yp(Smcy)
	17(dazla)
	Yp(Hya)

Hautala (1992)	

Greene (1983); Goldstein (1992)	

Yang (1992); Yang-Feng (1992)	

Lachance (1991); Rheaume (1992)	

Jeunemaitre (1992)	

Tannin (1991)	

Andersson (1991); Thigpen (1992)	

Weeda (1991a, 1991b)	

Hentati (1992)	

Farrer (1992); Tassbehji (1992)	

Bosma (1992); Ritter (1992)	

Al-Imara (1992); Hovnanian (1992)	

Chou (1992)	
Rosenfeld (1992)	
Alvarado (1987); Fujita (1992)	
Wilson (1983)	

Altherr (1991); Anvret (1991)	

Dimmick (1991)	

Ohashi (1992)	

Leon (1981); Leon (1992)	

Ryan (1992a, 1992b)	

Eiberg (1987); Donnai (1992)	

Farrar (1991); Kajiwara (1991)	
Brueton (1992a)	

Mackintosh (1989); Izquierdo (1991)	
Rose (1992)	
Small (1991, 1992)	

Brueton (1992b)	

Hattersley (1992); Stoffel (1992)	

Gartner (1992)	
Del Porto (1983); Roberts (1991)	

Abdalla (1992); Koch (1992)	

Schwartz (1983); Bogart (1990)	

Ruprecht (1989); Goto (1992)	

Haan (1989); Kumar (1992)	
White (1991)	
Lifton (1992); Mitsuuchi (1992)	
Ogle (1991); Le Merrer (1992)	

Strathdee (1992); Verlander (1992)	
Lungarotti (1991)	

Kaur (1989); Ishizaki (1990)	

Holtschmidt (1991); Schnabel (1992)	

Yamashina (1990)	
Ton (1991); Lyons(1992)	
Jadresic (1991); Pelletier (1991)	

Forsman (1992); Stone (1992)	
Orth (1992); Sheffield (1992)	
Heuting (1992)	

Fukao (1990, 1992)	

Norton (1991)	

Pfeiffer (1992)	

Chipev (1992); Compton (1992)	
Bonifas (1991); McKenna (1992)	

Schafer (1992)	

Moross (1984); Das (1992)	

Lewis (1991); Pentao (1992)	
Robinson (1991); Purvis-Smith (1992)	
Lungarotti (1991)	
Clayton-Smith (1992); Kuwano (1992)	

Ideguchi (1990); Bouhassira (1992)	

Ellis (1992)	
Weatherall (1981); Wilkie (1990b)	

Yokoyama (1992)	
Kandt (1992); Short (1992)	
Kastner (1992); Pras (1992)	

Ledbetter (1992); Oostra (1991)	

Lupski (1991); Timmerman (1992)	

Allanson (1991); Thakker (1992)	
Bonifas (1992); Coulombe (1992)	

Cheng (1992)	

Cambien (1992); Rigat (1992)	

McClatchey (1992a,b); Ptacek (1992)	
Young (1992)	
Ramirez-Duenas (1992)	

Boman (1988)	
Hegesh (1991); Shephard (1991)	

Fu (1992); Mahadevan (1992)	
Flejter (1992)	
Barnes (1992); Webster (1992)	

same as ADRA1D?	
Schellenberg (1991); Jones (1992)	

Johnson (1976); Munke (1988)	

Scambler (1991); Budarf (1992)	

10(Bcr)	
Arai (1992); Narod (1992)	
Jaeken (1988); Stone (1992)	

Henke (1991); Ogata (1992)	
McPherson (1991)	
Al-Gazali (1990); Temple (1990)	
Agematsu (1988); Wulfsberg (1992)	
Legouis (1991); Hardelin (1992)	

Willems (1991); Hendrickx (1992)	
Donnenfeld (1989); Naritomi (1992)	
Arena (1992)	
Berger (1992); Chen (1992)	

Wilson (1992)	
Archidiacono (1991); Ellison (1992)	
La Spada (1991); Biancalana (1992)	

Raskind (1991); Cox (1992)	

Faiyax (1992)	
Mueller (1991); Attree (1992)	
Gedeon (1992); Oberle (1992)	

Dlouhy (1987); Tsien (1992)	
