

Genes in Chromosome 4 p14-p13 (39755288 - 41829374)

SeqRegion	Start	End	Ensembl ID	DB	Name
4	39699664	39784412	ENSG00000078140	HGNC_curated_gene	UBE2K
4	39771701	39772991	ENSG00000180610	HGNC_automatic_gene	ZBTB12B
4	39809328	39827882	ENSG00000215215	Clone_based_ensembl_gene	AC105287.1
4	39824483	39979576	ENSG00000121892	HGNC_curated_gene	PDS5A
4	39974748	39975062	ENSG00000250568	Clone_based_vega_gene	RP11-333E13.2
4	39975064	39975960	ENSG00000231707	HGNC_automatic_gene	PABPC1P1
4	40021860	40023137	ENSG00000249064	Clone_based_vega_gene	RP11-333E13.3
4	40044537	40058819	ENSG00000254078	Clone_based_ensembl_gene	AC098591.1
4	40044537	40058819	ENSG00000205794	Clone_based_vega_gene	RP11-333E13.4
4	40058446	40159872	ENSG00000078177	HGNC_curated_gene	N4BP2
4	40143818	40143985	ENSG00000248977	Clone_based_vega_gene	RP11-39516.1
4	40192673	40246281	ENSG00000168421	HGNC_curated_gene	RHOH
4	40267092	40268077	ENSG00000250338	Clone_based_vega_gene	RP11-39516.2
4	40318502	40332436	ENSG00000249241	Clone_based_vega_gene	AC195454.1
4	40337346	40357234	ENSG00000174343	HGNC_curated_gene	CHRNA9
4	40425272	40632892	ENSG00000163694	HGNC_curated_gene	RBM47
4	40428136	40429602	ENSG00000250893	Clone_based_vega_gene	RP11-588L15.2
4	40493750	40494041	ENSG00000242197	Clone_based_vega_gene	RP11-588L15.1
4	40751914	40812002	ENSG00000179299	HGNC_curated_gene	NSUN7
4	40788127	40788727	ENSG00000248780	Clone_based_vega_gene	RP11-632F7.1
4	40812044	41218731	ENSG00000163697	HGNC_curated_gene	APBB2
4	40814796	40828168	ENSG00000250906	Clone_based_vega_gene	RP11-632F7.3
4	41222091	41258744	ENSG00000251173	Clone_based_vega_gene	RP11-124A7.2
4	41258430	41270472	ENSG00000154277	HGNC_curated_gene	UCHL1
4	41361624	41702061	ENSG00000064042	HGNC_curated_gene	LIMCH1
4	41391132	41391606	ENSG00000239627	Clone_based_vega_gene	RP11-124A7.1
4	41690875	41694814	ENSG00000249216	Clone_based_vega_gene	RP11-227F19.5
4	41724555	41725529	ENSG00000249081	HGNC_curated_gene	OR5M14P
4	41746099	41750987	ENSG00000109132	HGNC_curated_gene	PHOX2B
4	41750310	41826136	ENSG00000250467	Clone_based_vega_gene	RP11-227F19.1
4	41752362	41759358	ENSG00000249122	Clone_based_vega_gene	RP11-227F19.2

Genes in Chromosome 4 q12 (53366337 - 55257498)

SeqRegion	Start	End	Ensembl ID	DB	Name
4	53457131	53525502	ENSG00000109189	HGNC_curated_gene	USP46
4	53525573	53527835	ENSG00000248866	Clone_based_vega_gene	CTD-2314I6.1
4	53578597	53586518	ENSG00000226950	HGNC_curated_gene	KIAA0114
4	53586248	53586998	ENSG00000248375	Clone_based_vega_gene	RP11-177B4.1
4	53588785	53617807	ENSG00000226887	Clone_based_vega_gene	AC104066.1
4	53656161	53681631	ENSG00000250302	Clone_based_vega_gene	RP11-752D24.3
4	53728457	53733000	ENSG00000128045	HGNC_curated_gene	RASL11B
4	53739149	54232242	ENSG00000184178	HGNC_curated_gene	SCFD2
4	53811816	53824254	ENSG00000248115	Clone_based_vega_gene	RP11-752D24.2
4	54243810	55161439	ENSG00000145216	HGNC_curated_gene	FIP1L1
4	54325468	54567572	ENSG00000072201	HGNC_curated_gene	LNX1
4	54362567	54415745	ENSG00000250930	Clone_based_vega_gene	RP11-809N18.1

4	54441880	54442554	ENSG00000173966	Clone_based_vega_gene	RP11-18M17.1
4	54459123	54470214	ENSG00000248494	Clone_based_vega_gene	RP11-18M17.2
4	54525375	54603323	ENSG00000249341	Clone_based_vega_gene	RP11-317M11.1
4	54766038	54783002	ENSG00000249706	Clone_based_vega_gene	RP11-89B16.1
4	54793666	54794305	ENSG00000250815	Clone_based_vega_gene	RP11-89B16.2
4	54851668	54853445	ENSG00000229585	HGNC_curated_gene	RPL21P44
4	54875956	54930857	ENSG00000109220	HGNC_curated_gene	CHIC2
4	54942792	54943015	ENSG00000251105	Clone_based_vega_gene	RP11-571I18.2
4	54953093	54953950	ENSG00000250147	Clone_based_vega_gene	RP11-571I18.3
4	54965690	54968672	ENSG00000180613	HGNC_curated_gene	GSX2
4	55087293	55087639	ENSG00000242670	Clone_based_vega_gene	RP11-601I15.1
4	55095264	55164414	ENSG00000134853	HGNC_curated_gene	PDGFRA
4	55199059	55222121	ENSG00000248184	Clone_based_vega_gene	RP11-231C18.1
4	55242169	55242919	ENSG00000248518	Clone_based_vega_gene	RP11-231C18.2

Genes in Chromosome 15q12-14 (27378599 - 34188195)

SeqRegion	Start	End	Ensembl ID	DB	Name
15	27216683	27778373	ENSG00000182256	HGNC_curated_gene	GABRG3
15	27402882	27406422	ENSG00000228740	Clone_based_vega_gene	AC136896.1
15	27453236	27453782	ENSG00000214254	Clone_based_vega_gene	AC136896.2
15	28000021	28344504	ENSG00000104044	HGNC_curated_gene	OCA2
15	28020767	28021944	ENSG00000232394	Clone_based_vega_gene	AC090696.2
15	28140850	28141728	ENSG00000228992	Clone_based_vega_gene	AC079090.1
15	28356186	28567298	ENSG00000128731	HGNC_curated_gene	HERC2
15	28594197	28603226	ENSG00000237850	Clone_based_ensembl_gene	AC091304.2
15	28623810	28637170	ENSG00000153684	HGNC_automatic_gene	GOLGA8F
15	28764757	28778117	ENSG00000183629	HGNC_automatic_gene	GOLGA8G
15	28798718	28807725	ENSG00000227717	Clone_based_ensembl_gene	AC138749.1
15	28878409	28930408	ENSG00000206149	Clone_based_ensembl_gene	AC055876.5
15	28949905	28957567	ENSG00000188626	Clone_based_ensembl_gene	AC055876.4
15	29008589	29009296	ENSG00000235048	Clone_based_ensembl_gene	AC055876.2
15	29033389	29034632	ENSG00000232431	Clone_based_vega_gene	AC055876.1
15	29052134	29064148	ENSG00000235973	Clone_based_ensembl_gene	AC055876.1
15	29213840	29447484	ENSG00000034053	HGNC_curated_gene	APBA2
15	29412455	29862927	ENSG00000104059	HGNC_automatic_gene	FAM189A1
15	29560353	29562033	ENSG00000185115	HGNC_curated_gene	NDNL2
15	29991571	30248497	ENSG00000104067	HGNC_curated_gene	TJP1
15	30022917	30023189	ENSG00000234664	Clone_based_ensembl_gene	AC022613.1
15	30336645	30337498	ENSG00000215315	Clone_based_ensembl_gene	AC111152.1
15	30345145	30365267	ENSG00000229389	Clone_based_vega_gene	CTD-2022H16.1
15	30375158	30385702	ENSG00000179938	Clone_based_ensembl_gene	AC120045.3
15	30393199	30394249	ENSG00000226151	Clone_based_ensembl_gene	AC120045.8
15	30406142	30423944	ENSG00000178081	HGNC_automatic_gene	FAM7A3
15	30427254	30428639	ENSG00000235153	Clone_based_ensembl_gene	AC120045.4
15	30502611	30503009	ENSG00000225930	Clone_based_ensembl_gene	AC135731.2
15	30653443	30685864	ENSG00000166664	HGNC_automatic_gene	CHRFAM7A
15	30687403	30688453	ENSG00000227866	Clone_based_ensembl_gene	AC019322.3
15	30695943	30706365	ENSG00000186399	Clone_based_ensembl_gene	AC019322.5

15	30771193	30776820	ENSG00000215302	Clone_based_ensembl_gene	AC127502.1
15	30809285	30810052	ENSG00000236416	Clone_based_ensembl_gene	AC026150.4
15	30844183	30851659	ENSG00000178115	Clone_based_ensembl_gene	AC026150.2
15	30875128	30892918	ENSG00000215312	HGNC_automatic_gene	FAM7A2
15	30896231	30897616	ENSG00000233812	Clone_based_ensembl_gene	AC026150.3
15	30918403	30977809	ENSG00000187951	HGNC_automatic_gene	ARHGAP11B
15	31008518	31061502	ENSG00000203289	Clone_based_ensembl_gene	AC004460.3
15	31089563	31093932	ENSG00000103832	Clone_based_ensembl_gene	AC004460.1
15	31196107	31235308	ENSG00000198690	HGNC_automatic_gene	MTMR15
15	31231144	31283807	ENSG00000166912	HGNC_automatic_gene	MTMR10
15	31293264	31393910	ENSG00000134160	HGNC_curated_gene	TRPM1
15	31619058	31670102	ENSG00000169926	HGNC_curated_gene	KLF13
15	31712331	31712863	ENSG00000230179	Clone_based_ensembl_gene	AC104759.2
15	31773281	31947542	ENSG00000169918	HGNC_curated_gene	OTUD7A
15	32322701	32464722	ENSG00000175344	HGNC_curated_gene	CHRNA7
15	32684983	32695396	ENSG00000249931	Clone_based_vega_gene	RP13-395E19.1
15	32694769	32695296	ENSG00000234038	Clone_based_ensembl_gene	AC139426.1
15	32698805	32716878	ENSG00000215304	HGNC_automatic_gene	FAM7A1
15	32728752	32729802	ENSG00000227798	Clone_based_ensembl_gene	AC135983.2
15	32736888	32747737	ENSG00000206127	Clone_based_vega_gene	RP11-632K20.1
15	32782019	32782786	ENSG00000234209	Clone_based_ensembl_gene	AC135983.3
15	32815299	32825578	ENSG00000223509	Clone_based_ensembl_gene	AC135983.1
15	32885755	32893133	ENSG00000232653	Clone_based_ensembl_gene	AC123768.1
15	32890499	32891012	ENSG00000180987	Clone_based_ensembl_gene	AC123768.3
15	32907691	32932150	ENSG00000198826	HGNC_curated_gene	ARHGAP11A
15	32933877	32989299	ENSG00000166922	HGNC_curated_gene	SCG5
15	32948285	32965266	ENSG00000241818	Clone_based_vega_gene	RP11-1000B6.2
15	33010175	33026870	ENSG00000166923	HGNC_curated_gene	GREM1
15	33066345	33486897	ENSG00000186031	HGNC_automatic_gene	FMN1
15	33527951	33538804	ENSG00000215296	HGNC_automatic_gene	TMCO5B
15	33603177	34158299	ENSG00000198838	HGNC_automatic_gene	RYR3
15	34158427	34331377	ENSG00000169857	HGNC_curated_gene	AVEN

Genes in Chromosome 15q21.1 (44811177 - 45826511)

SeqRegion	Start	End	Ensembl ID	DB	Name
15	44719432	44821236	ENSG00000137770	HGNC_curated_gene	CTDSPL2
15	44826706	44829121	ENSG00000179523	Clone_based_ensembl_gene	AC009996.1
15	44829255	44855001	ENSG00000104131	HGNC_curated_gene	EIF3J
15	44854894	44955876	ENSG00000104133	HGNC_curated_gene	SPG11
15	44957931	44969086	ENSG00000229474	HGNC_automatic_gene	PATL2
15	45003675	45010359	ENSG00000166710	HGNC_curated_gene	B2M
15	45028560	45060025	ENSG00000185880	HGNC_curated_gene	TRIM69
15	45248900	45271427	ENSG00000167014	HGNC_curated_gene	C15orf43
15	45315305	45367043	ENSG00000140263	HGNC_curated_gene	SORD
15	45384848	45406537	ENSG00000140279	HGNC_curated_gene	DUOX2
15	45406519	45410619	ENSG00000140274	HGNC_curated_gene	DUOXA2
15	45409569	45422057	ENSG00000140254	HGNC_curated_gene	DUOXA1
15	45422192	45457774	ENSG00000137857	HGNC_automatic_gene	DUOX1

15	45459411	45493373	ENSG00000138606	HGNC_curated_gene	SHF
15	45544433	45568133	ENSG00000137860	HGNC_curated_gene	SLC28A2
15	45613312	45613584	ENSG00000235390	Clone_based_ensembl_gene	AC051619.1
15	45653322	45670980	ENSG00000171766	HGNC_curated_gene	GATM
15	45694529	45826686	ENSG00000171763	HGNC_curated_gene	SPATA5L1
15	45722763	45725647	ENSG00000166920	HGNC_curated_gene	C15orf48
15	45771809	45815005	ENSG00000104154	HGNC_curated_gene	SLC30A4
15	45803334	45848928	ENSG00000179362	HGNC_curated_gene	C15orf21

Genes in Chromosome 16q23.2-23.3 (81591998 - 82722103)

SeqRegion	Start	End	Ensembl ID	DB	Name
16	81640553	81745367	ENSG00000153815	Clone_based_ensembl_gene	AC099524.1
16	81812907	81991898	ENSG00000197943	HGNC_automatic_gene	PLCG2
16	82031252	82045093	ENSG00000184860	HGNC_automatic_gene	SDR42E1
16	82068866	82132139	ENSG00000086696	HGNC_curated_gene	HSD17B2
16	82181767	82203831	ENSG00000135698	HGNC_curated_gene	MPHOSPH6

Genes in Chromosome 21q22.3-tel (43635171 - 48100495)

SeqRegion	Start	End	Ensembl ID	DB	Name
21	43619799	43720714	ENSG00000160179	HGNC_curated_gene	ABCG1
21	43726682	43735761	ENSG00000160180	HGNC_curated_gene	TFF3
21	43766466	43771237	ENSG00000160181	HGNC_curated_gene	TFF2
21	43782391	43786703	ENSG00000160182	HGNC_curated_gene	TFF1
21	43791999	43816955	ENSG00000160183	HGNC_curated_gene	TMPRSS3
21	43824008	43867791	ENSG00000160185	HGNC_curated_gene	UBASH3A
21	43892596	43916464	ENSG00000160188	HGNC_curated_gene	RSPH1
21	43916118	43918313	ENSG00000239930	Clone_based_vega_gene	AP001625.4
21	43916128	44001550	ENSG00000160190	HGNC_curated_gene	SLC37A1
21	43928734	43929771	ENSG00000231867	Clone_based_vega_gene	AP001625.5
21	43980484	43982044	ENSG00000235772	Clone_based_vega_gene	AP001625.6
21	44019390	44035168	ENSG00000225431	Clone_based_vega_gene	AP001626.1
21	44068381	44071354	ENSG00000235023	Clone_based_vega_gene	AP001626.2
21	44073746	44195619	ENSG00000160191	HGNC_curated_gene	PDE9A
21	44153704	44161868	ENSG00000225731	Clone_based_vega_gene	AP001627.1
21	44201184	44202343	ENSG00000233754	Clone_based_vega_gene	AP001628.7
21	44251150	44256587	ENSG00000225218	Clone_based_vega_gene	AP001628.6
21	44263204	44299678	ENSG00000160193	HGNC_curated_gene	WDR4
21	44299754	44427677	ENSG00000160194	HGNC_curated_gene	NDUFV3
21	44336913	44345756	ENSG00000233056	HGNC_curated_gene	C21orf105
21	44384749	44385473	ENSG00000224100	Clone_based_vega_gene	AP001630.5
21	44394620	44453692	ENSG00000160199	HGNC_curated_gene	PKNOX1
21	44473301	44497053	ENSG00000160200	HGNC_curated_gene	CBS
21	44513066	44527697	ENSG00000160201	HGNC_curated_gene	U2AF1
21	44535444	44535819	ENSG00000232777	HGNC_curated_gene	MRPL51P2
21	44560633	44561202	ENSG00000236663	Clone_based_vega_gene	AP001631.9
21	44579176	44582387	ENSG00000228120	Clone_based_vega_gene	AP001631.10
21	44589118	44592915	ENSG00000160202	HGNC_curated_gene	CRYAA
21	44742297	44751919	ENSG00000237864	Clone_based_vega_gene	AP001046.4

21	44778027	44782229	ENSG00000237989	Clone_based_vega_gene	AP001046.5
21	44783212	44786446	ENSG00000225637	Clone_based_vega_gene	AP001046.6
21	44834395	44847008	ENSG00000142178	HGNC_curated_gene	SIK1
21	44866481	44873773	ENSG00000188660	HGNC_curated_gene	C21orf125
21	44881974	44899414	ENSG00000185186	HGNC_curated_gene	C21orf84
21	44885189	44887178	ENSG00000223975	Clone_based_vega_gene	AP001048.4
21	44949072	45079374	ENSG00000160207	HGNC_curated_gene	HSF2BP
21	44971110	44971481	ENSG00000214326	HGNC_curated_gene	RPL31P1
21	44985120	44985500	ENSG00000234289	HGNC_curated_gene	H2BFS
21	45079429	45194144	ENSG00000160208	HGNC_curated_gene	RRP1B
21	45138975	45194151	ENSG00000160209	HGNC_curated_gene	PDXK
21	45141573	45152146	ENSG00000241238	Clone_based_vega_gene	AP001052.9
21	45168246	45168349	ENSG00000228394	Clone_based_ensembl_gene	AP001052.1
21	45192393	45196326	ENSG00000160213	HGNC_curated_gene	CSTB
21	45203004	45203454	ENSG00000234030	Clone_based_vega_gene	AP001053.13
21	45209394	45225174	ENSG00000160214	HGNC_curated_gene	RRP1
21	45225639	45232448	ENSG00000215458	Clone_based_vega_gene	AP001053.11
21	45275771	45276223	ENSG00000226543	HGNC_curated_gene	MYL6P
21	45285067	45406417	ENSG00000160216	HGNC_curated_gene	AGPAT3
21	45432200	45526433	ENSG00000160218	HGNC_curated_gene	TRAPPC10
21	45466228	45466922	ENSG00000213440	HGNC_curated_gene	H2AFZP
21	45527176	45551063	ENSG00000241945	HGNC_curated_gene	PWP2
21	45548223	45563243	ENSG00000248354	Clone_based_vega_gene	AP001055.7
21	45553487	45565605	ENSG00000160221	HGNC_curated_gene	C21orf33
21	45578623	45579959	ENSG00000225331	Clone_based_vega_gene	AP001055.6
21	45595372	45596336	ENSG00000237604	Clone_based_vega_gene	AP001056.1
21	45621173	45622579	ENSG00000232124	Clone_based_vega_gene	AP001057.1
21	45626408	45627282	ENSG00000232698	Clone_based_vega_gene	AP001058.3
21	45642874	45660849	ENSG00000160223	HGNC_curated_gene	ICOSLG
21	45666222	45682099	ENSG00000142182	HGNC_curated_gene	DNMT3L
21	45670696	45671403	ENSG00000232010	Clone_based_vega_gene	AP001059.5
21	45705763	45718110	ENSG00000160224	HGNC_curated_gene	AIRE
21	45719934	45747259	ENSG00000141959	HGNC_curated_gene	PFKL
21	45748827	45750104	ENSG00000241728	Clone_based_vega_gene	AP001062.8
21	45748827	45759285	ENSG00000160226	HGNC_curated_gene	C21orf2
21	45751117	45755734	ENSG00000184441	Clone_based_vega_gene	AP001062.7
21	45759259	45760353	ENSG00000232969	Clone_based_vega_gene	AP001062.9
21	45770046	45862964	ENSG00000142185	HGNC_curated_gene	TRPM2
21	45834473	45845155	ENSG00000230061	Clone_based_vega_gene	AP001065.2
21	45870869	45875167	ENSG00000229356	Clone_based_vega_gene	AP001065.3
21	45875369	45878739	ENSG00000160233	HGNC_curated_gene	LRRC3
21	45889812	45892399	ENSG00000224747	Clone_based_vega_gene	AP001065.7
21	45892778	45893622	ENSG00000223431	Clone_based_vega_gene	AP001065.8
21	45893606	45894980	ENSG00000227999	Clone_based_vega_gene	AP001065.6
21	45905460	45910171	ENSG00000228709	Clone_based_vega_gene	AP001065.15
21	45917775	46131495	ENSG00000175894	HGNC_curated_gene	C21orf29
21	45926690	45935738	ENSG00000235890	Clone_based_vega_gene	AP001066.10
21	45937099	45945835	ENSG00000182912	HGNC_curated_gene	C21orf90

21	45958864	45960078	ENSG00000215455	HGNC_curated_gene	KRTAP10-1
21	45970240	45971388	ENSG00000205445	HGNC_curated_gene	KRTAP10-2
21	45977673	45978643	ENSG00000212935	HGNC_curated_gene	KRTAP10-3
21	45993617	45994980	ENSG00000215454	HGNC_curated_gene	KRTAP10-4
21	45999332	46000481	ENSG00000241123	HGNC_curated_gene	KRTAP10-5
21	46011149	46012386	ENSG00000188155	HGNC_curated_gene	KRTAP10-6
21	46020497	46022091	ENSG00000205441	HGNC_curated_gene	KRTAP10-7
21	46031996	46032871	ENSG00000187766	HGNC_curated_gene	KRTAP10-8
21	46047040	46048210	ENSG00000221837	HGNC_curated_gene	KRTAP10-9
21	46057273	46058370	ENSG00000221859	HGNC_curated_gene	KRTAP10-10
21	46066350	46067329	ENSG00000243489	HGNC_curated_gene	KRTAP10-11
21	46074130	46074576	ENSG00000212933	HGNC_curated_gene	KRTAP12-4
21	46077849	46078258	ENSG00000205439	HGNC_curated_gene	KRTAP12-3
21	46086106	46086844	ENSG00000221864	HGNC_curated_gene	KRTAP12-2
21	46095785	46098003	ENSG00000229880	HGNC_curated_gene	IMMTP
21	46101491	46102078	ENSG00000187175	HGNC_curated_gene	KRTAP12-1
21	46117087	46117880	ENSG00000189169	HGNC_curated_gene	KRTAP10-12
21	46122136	46122706	ENSG00000236382	Clone_based_vega_gene	AL773604.6
21	46188955	46221934	ENSG00000184787	HGNC_curated_gene	UBE2G2
21	46191374	46238694	ENSG00000184900	HGNC_curated_gene	SUMO3
21	46222492	46224632	ENSG00000236519	Clone_based_vega_gene	AL773604.8
21	46269500	46293752	ENSG00000183255	HGNC_curated_gene	PTTG1IP
21	46305868	46348753	ENSG00000160255	HGNC_curated_gene	ITGB2
21	46340966	46349593	ENSG00000227039	Clone_based_vega_gene	AL844908.5
21	46352729	46359828	ENSG00000183250	HGNC_curated_gene	C21orf67
21	46359925	46396904	ENSG00000160256	HGNC_curated_gene	C21orf70
21	46409779	46414001	ENSG00000234880	HGNC_curated_gene	NCRNA00163
21	46419122	46424642	ENSG00000224930	HGNC_curated_gene	NCRNA00162
21	46491648	46494080	ENSG00000235374	HGNC_curated_gene	C21orf122
21	46493768	46646475	ENSG00000197381	HGNC_curated_gene	ADARB1
21	46654267	46678645	ENSG00000182586	HGNC_curated_gene	C21orf89
21	46683843	46707813	ENSG00000186866	HGNC_curated_gene	POFUT2
21	46707967	46711653	ENSG00000215447	Clone_based_vega_gene	BX322557.10
21	46713200	46717269	ENSG00000223768	HGNC_curated_gene	NCRNA00205
21	46720160	46725172	ENSG00000184274	HGNC_curated_gene	C21orf93
21	46756622	46758580	ENSG00000229382	Clone_based_vega_gene	BX322557.13
21	46758505	46761905	ENSG00000237664	HGNC_curated_gene	C21orf111
21	46796106	46796297	ENSG00000228930	Clone_based_vega_gene	BX322559.2
21	46798116	46799550	ENSG00000228355	Clone_based_vega_gene	BX322559.3
21	46825052	46933634	ENSG00000182871	HGNC_curated_gene	COL18A1
21	46827301	46829980	ENSG00000224574	Clone_based_vega_gene	BX322563.3
21	46839631	46844985	ENSG00000183535	HGNC_curated_gene	NCRNA00175
21	46913486	46964314	ENSG00000173638	HGNC_curated_gene	SLC19A1
21	47013568	47017005	ENSG00000233922	Clone_based_vega_gene	AL133493.2
21	47063608	47362368	ENSG00000183570	HGNC_curated_gene	PCBP3
21	47170542	47172900	ENSG00000231820	Clone_based_vega_gene	AL133492.3
21	47247875	47256333	ENSG00000205424	Clone_based_vega_gene	AL592528.1
21	47401651	47424964	ENSG00000142156	HGNC_curated_gene	COL6A1

21	47456966	47459721	ENSG00000224413	Clone_based_vega_gene	AP001476.2
21	47472510	47473019	ENSG00000228235	Clone_based_vega_gene	AP001476.4
21	47476430	47477481	ENSG00000226115	Clone_based_vega_gene	AP001476.3
21	47491999	47492162	ENSG00000233767	Clone_based_vega_gene	AP001472.1
21	47513178	47517444	ENSG00000227438	Clone_based_vega_gene	AP001471.1
21	47518011	47552763	ENSG00000142173	HGNC_curated_gene	COL6A2
21	47556176	47575481	ENSG00000160282	HGNC_curated_gene	FTCD
21	47571528	47572561	ENSG00000237338	Clone_based_vega_gene	AP001475.1
21	47581062	47604390	ENSG00000160284	HGNC_curated_gene	C21orf56
21	47604993	47608855	ENSG00000228404	Clone_based_vega_gene	AP001468.58
21	47608360	47648738	ENSG00000160285	HGNC_curated_gene	LSS
21	47609638	47613673	ENSG00000235878	Clone_based_ensembl_gene	AP001468.1
21	47640183	47641992	ENSG00000223901	Clone_based_vega_gene	AP001469.5
21	47649145	47671615	ENSG00000215424	HGNC_curated_gene	MCM3APAS
21	47655047	47706211	ENSG00000160294	HGNC_curated_gene	MCM3AP
21	47666804	47667596	ENSG00000228137	Clone_based_vega_gene	AP001469.7
21	47671463	47674047	ENSG00000239415	Clone_based_vega_gene	AP001469.9
21	47706251	47717665	ENSG00000182362	HGNC_curated_gene	C21orf57
21	47720095	47743789	ENSG00000160298	HGNC_curated_gene	C21orf58
21	47744036	47865682	ENSG00000160299	HGNC_curated_gene	PCNT
21	47840467	47840948	ENSG00000225043	Clone_based_vega_gene	AP000336.1
21	47878812	47989621	ENSG00000160305	HGNC_curated_gene	DIP2A
21	47879045	47969831	ENSG00000250380	Clone_based_ensembl_gene	AP000338.2
21	47879045	47966959	ENSG00000248658	Clone_based_ensembl_gene	AP000338.3
21	47882384	47889219	ENSG00000223692	Clone_based_vega_gene	AP000337.3
21	48018875	48025121	ENSG00000160307	HGNC_curated_gene	S100B
21	48055079	48085036	ENSG00000160310	HGNC_curated_gene	PRMT2
21	48073470	48073934	ENSG00000230982	Clone_based_vega_gene	AP000339.4

Genes in Chromosome 22q13.31-q13.32 (47114920 - 48960274)

SeqRegion	Start	End	Ensembl ID	DB	Name
22	47080308	47134158	ENSG00000100422	HGNC_curated_gene	CERK
22	47158518	47571336	ENSG00000054611	HGNC_curated_gene	TBC1D22A
22	47741319	47769291	ENSG00000224715	Clone_based_vega_gene	CITF22-49D8.1
22	47857048	47882860	ENSG00000218357	Clone_based_vega_gene	LL22NC03-75H12.2
22	48016792	48027318	ENSG00000205634	Clone_based_vega_gene	RP11-191L9.6
22	48027423	48251349	ENSG00000224271	Clone_based_vega_gene	RP11-191L9.4
22	48058239	48059352	ENSG00000232897	Clone_based_vega_gene	RP11-191L9.5
22	48256420	48257811	ENSG00000230345	Clone_based_vega_gene	RP13-455A7.1
22	48440527	48444366	ENSG00000235154	Clone_based_vega_gene	CTA-280A3__B.2
22	48535278	48536818	ENSG00000238192	Clone_based_vega_gene	LL22NC03-121E8.4
22	48537359	48539046	ENSG00000229275	Clone_based_vega_gene	LL22NC03-121E8.3
22	48844702	48847029	ENSG00000233179	Clone_based_vega_gene	RP11-536P6.3
22	48885272	49246724	ENSG00000219438	HGNC_curated_gene	FAM19A5
22	48896664	48896776	ENSG00000238016	Clone_based_ensembl_gene	Z84468.1
22	48934712	48943199	ENSG00000219016	Clone_based_vega_gene	CTA-299D3.8