

Supplementary Table S4 Genes identified in CNVRs and/or observed in OMIA database

NO. CNVR	CNVR	Gene	VAR	OMIA database		
				Trait/disorder	Species	OMIA number
CNVR1	chr17:59870207-61156582	EDNRA	0.0627	Coat colour, white goat		000214
CNVR1	chr17:59870207-61156582	TMEM184C	0.0627			
CNVR1	chr17:59870207-61156582	ARHGAP10	0.0627			
CNVR1	chr17:59870207-61156582	NR3C2	0.0627			
CNVR1	chr17:59870207-61156582	PRMT9	0.0627			
CNVR2	chr5:36233025-36842273	PUS7L	0.0542	Cleft lip with or wi dog		001140
CNVR2	chr5:36233025-36842273	ADAMTS20	0.0542			
CNVR8	chr3:80113767-80962349	RNPC3	0.0294			
CNVR8	chr3:80113767-80962349	COL11A1	0.0294			
CNVR7	chr20:70385615-71781295	IRX4	0.0266			
CNVR7	chr20:70385615-71781295	NDUFS6	0.0266			
CNVR7	chr20:70385615-71781295	MRPL36	0.0266			
CNVR7	chr20:70385615-71781295	LPCAT1	0.0266			
CNVR7	chr20:70385615-71781295	SLC6A3	0.0266			
CNVR7	chr20:70385615-71781295	SLC12A7	0.0266			
CNVR7	chr20:70385615-71781295	NKD2	0.0266			
CNVR7	chr20:70385615-71781295	TRIP13	0.0266			
CNVR7	chr20:70385615-71781295	BRD9	0.0266			
CNVR7	chr20:70385615-71781295	TERT	0.0266			
CNVR7	chr20:70385615-71781295	SLC6A18	0.0266			
CNVR7	chr20:70385615-71781295	SLC6A19	0.0266			
CNVR7	chr20:70385615-71781295	TPPP	0.0266			
CNVR7	chr20:70385615-71781295	CEP72	0.0266			
CNVR7	chr20:70385615-71781295	SLC9A3	0.0266			
CNVR7	chr20:70385615-71781295	EXOC3	0.0266			
CNVR7	chr20:70385615-71781295	AHRR	0.0266			
CNVR7	chr20:70385615-71781295	PDCD6	0.0266			
CNVR7	chr20:70385615-71781295	SDHA	0.0266			
CNVR7	chr20:70385615-71781295	CCDC127	0.0266			
CNVR7	chr20:70385615-71781295	LRRC14B	0.0266			
CNVR6	chr6:116288145-117571225	RNF4	0.0181			
CNVR6	chr6:116288145-117571225	FAM193A	0.0181			
CNVR6	chr6:116288145-117571225	TNIP2	0.0181			
CNVR6	chr6:116288145-117571225	SH3BP2	0.0181			
CNVR6	chr6:116288145-117571225	ADD1	0.0181			
CNVR6	chr6:116288145-117571225	MFSD10	0.0181			
CNVR6	chr6:116288145-117571225	NOP14	0.0181			
CNVR6	chr6:116288145-117571225	GRK4	0.0181			
CNVR6	chr6:116288145-117571225	HTT	0.0181			
CNVR6	chr6:116288145-117571225	NKX1-1	0.0181			
CNVR6	chr6:116288145-117571225	UVSSA	0.0181			
CNVR6	chr6:116288145-117571225	MAEA	0.0181			
CNVR6	chr6:116288145-117571225	CTBP1	0.0181			
CNVR6	chr6:116288145-117571225	SPON2	0.0181			
CNVR6	chr6:116288145-117571225	IDUA	0.0181	Mucopolysacchari dog, dome: 000664		

CNVR6	chr6:116288145-117571225	SLC26A1	0.0181		
CNVR6	chr6:116288145-117571225	DGKQ	0.0181		
CNVR6	chr6:116288145-117571225	CPLX1	0.0181		
CNVR6	chr6:116288145-117571225	PCGF3	0.0181		
CNVR6	chr6:116288145-117571225	MFSD7	0.0181		
CNVR6	chr6:116288145-117571225	ATP5I	0.0181		
CNVR6	chr6:116288145-117571225	PDE6B	0.0181	Rod-cone dysplasi: dog	000882
				Rod-cone dysplasi: dog	001669
				Cone-rod dystroph dog	001674
CNVR6	chr6:116288145-117571225	ZFYVE28	0.0181		
CNVR6	chr6:116288145-117571225	CFAP99	0.0181		
CNVR9	chr14:80740427-81602889	TOP1MT	0.0173		
CNVR9	chr14:80740427-81602889	RHPN1	0.0173		
CNVR9	chr14:80740427-81602889	MAFA	0.0173		
CNVR9	chr14:80740427-81602889	ZC3H3	0.0173		
CNVR9	chr14:80740427-81602889	MROH6	0.0173		
CNVR9	chr14:80740427-81602889	EEF1D	0.0173		
CNVR9	chr14:80740427-81602889	TIGD5	0.0173		
CNVR9	chr14:80740427-81602889	PYCR1	0.0173		
CNVR9	chr14:80740427-81602889	TSTA3	0.0173		
CNVR9	chr14:80740427-81602889	ZNF623	0.0173		
CNVR9	chr14:80740427-81602889	CCDC166	0.0173		
CNVR9	chr14:80740427-81602889	MAPK15	0.0173		
CNVR9	chr14:80740427-81602889	PLEC	0.0173	Epidermolysis bulli dog	002080
CNVR9	chr14:80740427-81602889	PARP10	0.0173		
CNVR9	chr14:80740427-81602889	GRINA	0.0173		
CNVR9	chr14:80740427-81602889	SPATC1	0.0173		
CNVR9	chr14:80740427-81602889	SMPD5	0.0173		
CNVR9	chr14:80740427-81602889	OPLAH	0.0173		
CNVR9	chr14:80740427-81602889	EXOSC4	0.0173	Abortion (embryor cattle	002042
CNVR9	chr14:80740427-81602889	GPAA1	0.0173		
CNVR9	chr14:80740427-81602889	SHARPIN	0.0173		
CNVR9	chr14:80740427-81602889	MAF1	0.0173		
CNVR9	chr14:80740427-81602889	WDR97	0.0173		
CNVR9	chr14:80740427-81602889	MROH1	0.0173		
CNVR9	chr14:80740427-81602889	BOP1	0.0173		
CNVR9	chr14:80740427-81602889	SCX	0.0173		
CNVR9	chr14:80740427-81602889	HSF1	0.0173		
CNVR9	chr14:80740427-81602889	DGAT1	0.0173		
CNVR9	chr14:80740427-81602889	SCRT1	0.0173		
CNVR9	chr14:80740427-81602889	TMEM249	0.0173		
CNVR9	chr14:80740427-81602889	FBXL6	0.0173		
CNVR9	chr14:80740427-81602889	SLC52A2	0.0173		
CNVR9	chr14:80740427-81602889	ADCK5	0.0173		
CNVR9	chr14:80740427-81602889	CPSF1	0.0173		
CNVR9	chr14:80740427-81602889	SLC39A4	0.0173	Acrodermatitis ent cattle	000593
CNVR9	chr14:80740427-81602889	VPS28	0.0173		
CNVR9	chr14:80740427-81602889	TONSL	0.0173		

CNVR9	chr14:80740427-81602889	CYHR1	0.0173		
CNVR9	chr14:80740427-81602889	KIFC2	0.0173		
CNVR9	chr14:80740427-81602889	FOXH1	0.0173		
CNVR9	chr14:80740427-81602889	PPP1R16A	0.0173		
CNVR9	chr14:80740427-81602889	GPT	0.0173		
CNVR9	chr14:80740427-81602889	MFSD3	0.0173		
CNVR9	chr14:80740427-81602889	RECQL4	0.0173		
CNVR9	chr14:80740427-81602889	LRRC14	0.0173		
CNVR9	chr14:80740427-81602889	LRRC24	0.0173		
CNVR9	chr14:80740427-81602889	ARHGAP39	0.0173		
CNVR9	chr14:80740427-81602889	COMMD5	0.0173		
CNVR9	chr14:80740427-81602889	ZNF7	0.0173		
CNVR5	chr16:77668969-79353771	ZNF281	0.0160		
CNVR5	chr16:77668969-79353771	KIF14	0.0160		
CNVR5	chr16:77668969-79353771	DDX59	0.0160		
CNVR5	chr16:77668969-79353771	CAMSAP2	0.0160		
CNVR5	chr16:77668969-79353771	GPR25	0.0160		
CNVR5	chr16:77668969-79353771	CACNA1S	0.0160		
CNVR5	chr16:77668969-79353771	ASCL5	0.0160		
CNVR5	chr16:77668969-79353771	TMEM9	0.0160		
CNVR5	chr16:77668969-79353771	IGFN1	0.0160		
CNVR5	chr16:77668969-79353771	PKP1	0.0160	Ectodermal dyspla dog	001864
CNVR5	chr16:77668969-79353771	ADIPOR1	0.0160		
CNVR5	chr16:77668969-79353771	KLHL12	0.0160		
CNVR5	chr16:77668969-79353771	RAB1F	0.0160		
CNVR5	chr16:77668969-79353771	KDM5B	0.0160		
CNVR5	chr16:77668969-79353771	SYT2	0.0160		
CNVR5	chr16:77668969-79353771	PPP1R12B	0.0160		
CNVR5	chr16:77668969-79353771	UBE2T	0.0160		
CNVR5	chr16:77668969-79353771	LGR6	0.0160		
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CNVR5	chr16:77668969-79353771	GPR37L1	0.0160		
CNVR5	chr16:77668969-79353771	NAV1	0.0160		
CNVR5	chr16:77668969-79353771	IPO9	0.0160		
CNVR5	chr16:77668969-79353771	LMOD1	0.0160		
CNVR5	chr16:77668969-79353771	TIMM17A	0.0160		
CNVR5	chr16:77668969-79353771	RNPEP	0.0160		
CNVR5	chr16:77668969-79353771	ELF3	0.0160		
CNVR5	chr16:77668969-79353771	CSRP1	0.0160		
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CNVR5	chr16:77668969-79353771	TNNI1	0.0160		
CNVR5	chr16:77668969-79353771	LAD1	0.0160		
CNVR5	chr16:77668969-79353771	TNNT2	0.0160	Cardiomyopathy, c turkey	000162
CNVR11	chr26:58230-1314865	ADGRA1	0.0114		
CNVR11	chr26:58230-1314865	CFAP46	0.0114		
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CNVR11	chr26:58230-1314865	PWWP2B	0.0114		

CNVR11	chr26:58230-1314865	LRRC27	0.0114
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CNVR11	chr26:58230-1314865	DPYSL4	0.0114
CNVR11	chr26:58230-1314865	JAKMIP3	0.0114
CNVR11	chr26:58230-1314865	BNIP3	0.0114
CNVR11	chr26:58230-1314865	MTG1	0.0114
CNVR11	chr26:58230-1314865	PAOX	0.0114
CNVR11	chr26:58230-1314865	ECHS1	0.0114
CNVR11	chr26:58230-1314865	FUOM	0.0114
CNVR11	chr26:58230-1314865	PRAP1	0.0114
CNVR11	chr26:58230-1314865	CALY	0.0114
CNVR11	chr26:58230-1314865	ZNF511	0.0114
CNVR11	chr26:58230-1314865	TUBGCP2	0.0114
CNVR11	chr26:58230-1314865	ADAM8	0.0114
CNVR11	chr26:58230-1314865	UTF1	0.0114
CNVR11	chr26:58230-1314865	KNDC1	0.0114
CNVR15	chr1:150457042-150859489	KCNJ15	0.0087
CNVR15	chr1:150457042-150859489	ERG	0.0087
CNVR14	chr11:105299562-106216293	RXRA	0.0087
CNVR14	chr11:105299562-106216293	CACNA1B	0.0087
CNVR14	chr11:105299562-106216293	EHMT1	0.0087
CNVR14	chr11:105299562-106216293	ARRDC1	0.0087
CNVR14	chr11:105299562-106216293	ZMYND19	0.0087
CNVR14	chr11:105299562-106216293	DPH7	0.0087
CNVR14	chr11:105299562-106216293	MRPL41	0.0087
CNVR14	chr11:105299562-106216293	PNPLA7	0.0087
CNVR14	chr11:105299562-106216293	NSMF	0.0087
CNVR14	chr11:105299562-106216293	ENTPD8	0.0087
CNVR14	chr11:105299562-106216293	NOXA1	0.0087
CNVR14	chr11:105299562-106216293	EXD3	0.0087
CNVR14	chr11:105299562-106216293	NRARP	0.0087
CNVR14	chr11:105299562-106216293	TOR4A	0.0087
CNVR14	chr11:105299562-106216293	NELFB	0.0087
CNVR14	chr11:105299562-106216293	STPG3	0.0087
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CNVR14	chr11:105299562-106216293	TUBB4B	0.0087
CNVR14	chr11:105299562-106216293	SLC34A3	0.0087
CNVR14	chr11:105299562-106216293	CYSRT1	0.0087
CNVR14	chr11:105299562-106216293	RNF208	0.0087
CNVR14	chr11:105299562-106216293	NDOR1	0.0087
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CNVR14	chr11:105299562-106216293	ANAPC2	0.0087
CNVR14	chr11:105299562-106216293	TMEM210	0.0087
CNVR14	chr11:105299562-106216293	LRRC26	0.0087
CNVR14	chr11:105299562-106216293	GRIN1	0.0087
CNVR14	chr11:105299562-106216293	DPP7	0.0087

CNVR14	chr11:105299562-106216293	UAP1L1	0.0087
CNVR14	chr11:105299562-106216293	SAPCD2	0.0087
CNVR14	chr11:105299562-106216293	ENTPD2	0.0087
CNVR14	chr11:105299562-106216293	NPDC1	0.0087
CNVR14	chr11:105299562-106216293	FUT7	0.0087
CNVR14	chr11:105299562-106216293	ABCA2	0.0087
CNVR13	chr22:58520379-60193667	EFCC1	0.0080
CNVR13	chr22:58520379-60193667	GP9	0.0080
CNVR13	chr22:58520379-60193667	RAB43	0.0080
CNVR13	chr22:58520379-60193667	CNBP	0.0080
CNVR13	chr22:58520379-60193667	COPG1	0.0080
CNVR13	chr22:58520379-60193667	HMCES	0.0080
CNVR13	chr22:58520379-60193667	RAB7A	0.0080
CNVR13	chr22:58520379-60193667	RPN1	0.0080
CNVR13	chr22:58520379-60193667	GATA2	0.0080
CNVR13	chr22:58520379-60193667	EEFSEC	0.0080
CNVR13	chr22:58520379-60193667	RUVBL1	0.0080
CNVR13	chr22:58520379-60193667	SEC61A1	0.0080
CNVR13	chr22:58520379-60193667	KBTBD12	0.0080
CNVR13	chr22:58520379-60193667	MGLL	0.0080
CNVR13	chr22:58520379-60193667	ABTB1	0.0080
CNVR13	chr22:58520379-60193667	PLXNA1	0.0080
CNVR13	chr22:58520379-60193667	CHCHD6	0.0080
CNVR13	chr22:58520379-60193667	TXNRD3	0.0080
CNVR13	chr22:58520379-60193667	CHST13	0.0080
CNVR13	chr22:58520379-60193667	UROC1	0.0080
CNVR13	chr22:58520379-60193667	ZXDC	0.0080
CNVR13	chr22:58520379-60193667	SLC41A3	0.0080
CNVR13	chr22:58520379-60193667	ALDH1L1	0.0080
CNVR13	chr22:58520379-60193667	NUP210	0.0080
CNVR13	chr22:58520379-60193667	IQSEC1	0.0080
CNVR13	chr22:58520379-60193667	ACAD9	0.0080
CNVR13	chr22:58520379-60193667	KIAA1257	0.0080
CNVR10	chr25:41347812-42840304	CARD11	0.0071
CNVR10	chr25:41347812-42840304	GNA12	0.0071
CNVR10	chr25:41347812-42840304	AMZ1	0.0071
CNVR10	chr25:41347812-42840304	BRAT1	0.0071
CNVR10	chr25:41347812-42840304	IQCE	0.0071
CNVR10	chr25:41347812-42840304	TTYH3	0.0071
CNVR10	chr25:41347812-42840304	LFNG	0.0071
CNVR10	chr25:41347812-42840304	GRIFIN	0.0071
CNVR10	chr25:41347812-42840304	CHST12	0.0071
CNVR10	chr25:41347812-42840304	EIF3B	0.0071
CNVR10	chr25:41347812-42840304	SNX8	0.0071
CNVR10	chr25:41347812-42840304	NUDT1	0.0071
CNVR10	chr25:41347812-42840304	MRM2	0.0071
CNVR10	chr25:41347812-42840304	GPR146	0.0071
CNVR10	chr25:41347812-42840304	PRKAR1B	0.0071

CNVR10	chr25:41347812-42840304	PDGFA	0.0071		
CNVR10	chr25:41347812-42840304	FAM20C	0.0071	Dental hypominer: dog	002015
CNVR10	chr25:41347812-42840304	MAD1L1	0.0071		
CNVR10	chr25:41347812-42840304	UNCX	0.0071		
CNVR10	chr25:41347812-42840304	ZFAND2A	0.0071		
CNVR10	chr25:41347812-42840304	SUN1	0.0071		
CNVR10	chr25:41347812-42840304	GET4	0.0071		
CNVR10	chr25:41347812-42840304	GPER1	0.0071		
CNVR12	chr8:111379886-112591717	MYT1L	0.0065		
CNVR12	chr8:111379886-112591717	PXDN	0.0065		
CNVR12	chr8:111379886-112591717	TPO	0.0065	Hypothyroidism	domestic c. 000536
CNVR12	chr8:111379886-112591717	SNTG2	0.0065		
CNVR12	chr8:111379886-112591717	TMEM18	0.0065		
CNVR12	chr8:111379886-112591717	FAM150B	0.0065		
CNVR12	chr8:111379886-112591717	ACP1	0.0065		
CNVR12	chr8:111379886-112591717	SH3YL1	0.0065		
CNVR17	chr19:61491917-62508113	PRKCA	0.0062		
CNVR17	chr19:61491917-62508113	CACNG5	0.0062		
CNVR17	chr19:61491917-62508113	CACNG4	0.0062		
CNVR17	chr19:61491917-62508113	CACNG1	0.0062		
CNVR17	chr19:61491917-62508113	HELZ	0.0062		
CNVR17	chr19:61491917-62508113	CEP112	0.0062		
CNVR17	chr19:61491917-62508113	APOH	0.0062		
CNVR4	chr13:63117523-63416183	AHCY	0.0047		
CNVR4	chr13:63117523-63416183	ITCH	0.0047		
CNVR4	chr13:63117523-63416183	ASIP	0.0047	Coat colour, agouti horse, cat	000201
CNVR33	chr12:633392-1251586	TEX29	0.0032		
CNVR33	chr12:633392-1251586	ARHGEF7	0.0032		
CNVR33	chr12:633392-1251586	ANKRD10	0.0032		
CNVR33	chr12:633392-1251586	ING1	0.0032		
CNVR33	chr12:633392-1251586	CARS2	0.0032		
CNVR33	chr12:633392-1251586	NAXD	0.0032		
CNVR33	chr12:633392-1251586	RAB20	0.0032		
CNVR33	chr12:633392-1251586	COL4A2	0.0032		
CNVR22	chr9:90879554-91536616	PHF10	0.0032		
CNVR22	chr9:90879554-91536616	TCTE3	0.0032		
CNVR22	chr9:90879554-91536616	ERMARD	0.0032		
CNVR22	chr9:90879554-91536616	DLL1	0.0032		
CNVR22	chr9:90879554-91536616	FAM120B	0.0032		
CNVR22	chr9:90879554-91536616	PSMB1	0.0032		
CNVR22	chr9:90879554-91536616	WDR27	0.0032		
CNVR18	chr5:75604240-77148831	PKP2	0.0031		
CNVR18	chr5:75604240-77148831	YARS2	0.0031		
CNVR18	chr5:75604240-77148831	DNM1L	0.0031		
CNVR18	chr5:75604240-77148831	FGD4	0.0031		
CNVR18	chr5:75604240-77148831	BICD1	0.0031		
CNVR18	chr5:75604240-77148831	KIAA1551	0.0031		
CNVR18	chr5:75604240-77148831	AMN1	0.0031		

CNVR18	chr5:75604240-77148831	ETFBKMT	0.0031			
CNVR18	chr5:75604240-77148831	DENND5B	0.0031			
CNVR29	chr6:114348987-116039905	SLBP	0.0030			
CNVR29	chr6:114348987-116039905	TMEM129	0.0030			
CNVR29	chr6:114348987-116039905	AFAP1	0.0030			
CNVR29	chr6:114348987-116039905	ABLIM2	0.0030			
CNVR29	chr6:114348987-116039905	SH3TC1	0.0030			
CNVR29	chr6:114348987-116039905	HTRA3	0.0030			
CNVR29	chr6:114348987-116039905	ACOX3	0.0030			
CNVR29	chr6:114348987-116039905	LRPAP1	0.0030			
CNVR29	chr6:114348987-116039905	RGS12	0.0030			
CNVR29	chr6:114348987-116039905	HGFAC	0.0030			
CNVR29	chr6:114348987-116039905	DOK7	0.0030			
CNVR29	chr6:114348987-116039905	TACC3	0.0030			
CNVR29	chr6:114348987-116039905	LETM1	0.0030			
CNVR29	chr6:114348987-116039905	WHSC1	0.0030			
CNVR29	chr6:114348987-116039905	NELFA	0.0030			
CNVR29	chr6:114348987-116039905	NAT8L	0.0030			
CNVR29	chr6:114348987-116039905	TRMT44	0.0030			
CNVR29	chr6:114348987-116039905	CPZ	0.0030			
CNVR29	chr6:114348987-116039905	HMX1	0.0030	Ears, crop	cattle	000317
CNVR29	chr6:114348987-116039905	ADRA2C	0.0030			
CNVR36	chr23:185718-1440908	IRF4	0.0024			
CNVR36	chr23:185718-1440908	EXOC2	0.0024			
CNVR36	chr23:185718-1440908	FOXQ1	0.0024			
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CNVR36	chr23:185718-1440908	FOXC1	0.0024			
CNVR36	chr23:185718-1440908	GMDS	0.0024			
CNVR36	chr23:185718-1440908	MYLK4	0.0024			
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CNVR30	chr21:68219498-68844436	BRF1	0.0020			
CNVR30	chr21:68219498-68844436	BTBD6	0.0020			
CNVR30	chr21:68219498-68844436	NUDT14	0.0020			
CNVR30	chr21:68219498-68844436	TEX22	0.0020			
CNVR30	chr21:68219498-68844436	ADSSL1	0.0020			
CNVR30	chr21:68219498-68844436	SIVA1	0.0020			
CNVR30	chr21:68219498-68844436	AKT1	0.0020			
CNVR30	chr21:68219498-68844436	ZBTB42	0.0020			
CNVR30	chr21:68219498-68844436	CEP170B	0.0020			
CNVR30	chr21:68219498-68844436	PLD4	0.0020	Zinc deficiency-like	cattle	001935
CNVR30	chr21:68219498-68844436	AHNAK2	0.0020			
CNVR30	chr21:68219498-68844436	CDCA4	0.0020			
CNVR31	chr13:82673905-83017136	CBLN4	0.0019			
CNVR28	chr29:50937615-51309969	DUSP8	0.0018			
CNVR28	chr29:50937615-51309969	BRSK2	0.0018			
CNVR28	chr29:50937615-51309969	TOLLIP	0.0018			
CNVR28	chr29:50937615-51309969	MUC5AC	0.0018			
CNVR42	chr15:80227503-81898682	GRIA4	0.0018			

CNVR42	chr15:80227503-81898682	MSANTD4	0.0018		
CNVR42	chr15:80227503-81898682	KBTBD3	0.0018		
CNVR42	chr15:80227503-81898682	AASDHPPT	0.0018		
CNVR42	chr15:80227503-81898682	ANKRD49	0.0018		
CNVR42	chr15:80227503-81898682	MRE11A	0.0018		
CNVR42	chr15:80227503-81898682	GPR83	0.0018		
CNVR42	chr15:80227503-81898682	NANOG	0.0018		
CNVR19	chr24:59148115-59684957	MC4R	0.0017		
CNVR26	chr3:95491550-95583652	SPAG17	0.0017		
CNVR40	chr1:156930272-157299677	EFHB	0.0015		
CNVR40	chr1:156930272-157299677	RAB5A	0.0015		
CNVR40	chr1:156930272-157299677	PP2D1	0.0015		
CNVR40	chr1:156930272-157299677	KAT2B	0.0015		
CNVR40	chr1:156930272-157299677	SGO1	0.0015		
CNVR219	chr3:107834318-108367299	CD1E	0.0015		
CNVR186	chr15:26559078-26705819	ACER3	0.0014		
CNVR155	chr17:56678966-57448926	FREM3	0.0014		
CNVR155	chr17:56678966-57448926	HHIP	0.0014		
CNVR35	chr14:94209873-94652327	KCNQ5	0.0014		
CNVR35	chr14:94209873-94652327	KHDC3L	0.0014		
CNVR35	chr14:94209873-94652327	DDX43	0.0014		
CNVR55	chr14:78440252-79000166	KCNK9	0.0013		
CNVR55	chr14:78440252-79000166	TRAPPC9	0.0013		
CNVR55	chr14:78440252-79000166	CHRA1	0.0013		
CNVR55	chr14:78440252-79000166	AGO2	0.0013		
CNVR3	chr12:13172367-13621196	DNAJC3	0.0013		
CNVR3	chr12:13172367-13621196	DZIP1	0.0013		
CNVR3	chr12:13172367-13621196	CLDN10	0.0013		
CNVR68	chr27:43083425-43632992	MYOM2	0.0013		
CNVR68	chr27:43083425-43632992	KBTBD11	0.0013		
CNVR68	chr27:43083425-43632992	ARHGEF10	0.0013	Polyneuropathy, A dog	001917
CNVR68	chr27:43083425-43632992	CLN8	0.0013	Neuronal ceroid liğ dog	001506
CNVR68	chr27:43083425-43632992	DLGAP2	0.0013		
CNVR39	chr25:218326-1683430	PDIA2	0.0010		
CNVR39	chr25:218326-1683430	AXIN1	0.0010		
CNVR39	chr25:218326-1683430	MRPL28	0.0010		
CNVR39	chr25:218326-1683430	TMEM8A	0.0010		
CNVR39	chr25:218326-1683430	NME4	0.0010		
CNVR39	chr25:218326-1683430	DECR2	0.0010		
CNVR39	chr25:218326-1683430	RAB11FIP3	0.0010		
CNVR39	chr25:218326-1683430	CAPN15	0.0010		
CNVR39	chr25:218326-1683430	PRR35	0.0010		
CNVR39	chr25:218326-1683430	NHLRC4	0.0010		
CNVR39	chr25:218326-1683430	PIGQ	0.0010		
CNVR39	chr25:218326-1683430	RAB40C	0.0010		
CNVR39	chr25:218326-1683430	WFIKKN1	0.0010		
CNVR39	chr25:218326-1683430	METTL26	0.0010		
CNVR39	chr25:218326-1683430	MCRIP2	0.0010		

CNVR39	chr25:218326-1683430	WDR90	0.0010			
CNVR39	chr25:218326-1683430	RHOT2	0.0010			
CNVR39	chr25:218326-1683430	RHBDL1	0.0010			
CNVR39	chr25:218326-1683430	STUB1	0.0010			
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CNVR39	chr25:218326-1683430	WDR24	0.0010			
CNVR39	chr25:218326-1683430	FBXL16	0.0010			
CNVR39	chr25:218326-1683430	METRNL	0.0010			
CNVR39	chr25:218326-1683430	FAM173A	0.0010			
CNVR39	chr25:218326-1683430	CCDC78	0.0010			
CNVR39	chr25:218326-1683430	HAGHL	0.0010			
CNVR39	chr25:218326-1683430	NARFL	0.0010			
CNVR39	chr25:218326-1683430	MSLN	0.0010			
CNVR39	chr25:218326-1683430	RPUSD1	0.0010			
CNVR39	chr25:218326-1683430	CHTF18	0.0010			
CNVR39	chr25:218326-1683430	GNG13	0.0010			
CNVR39	chr25:218326-1683430	LMF1	0.0010			
CNVR39	chr25:218326-1683430	SOX8	0.0010			
CNVR39	chr25:218326-1683430	SSTR5	0.0010			
CNVR39	chr25:218326-1683430	C1QTNF8	0.0010			
CNVR39	chr25:218326-1683430	UBE2I	0.0010			
CNVR39	chr25:218326-1683430	BAIAP3	0.0010			
CNVR39	chr25:218326-1683430	TSR3	0.0010			
CNVR39	chr25:218326-1683430	GNPTG	0.0010			
CNVR39	chr25:218326-1683430	UNKL	0.0010			
CNVR39	chr25:218326-1683430	CCDC154	0.0010			
CNVR39	chr25:218326-1683430	HMX1	0.0010	Ears, crop	cattle	000317
CNVR39	chr25:218326-1683430	PTX4	0.0010			
CNVR39	chr25:218326-1683430	TELO2	0.0010			
CNVR39	chr25:218326-1683430	IFT140	0.0010			
CNVR39	chr25:218326-1683430	TMEM204	0.0010			
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CNVR39	chr25:218326-1683430	MAPK8IP3	0.0010			
CNVR39	chr25:218326-1683430	NME3	0.0010			
CNVR39	chr25:218326-1683430	MRPS34	0.0010			
CNVR39	chr25:218326-1683430	EME2	0.0010			
CNVR39	chr25:218326-1683430	SPSB3	0.0010			
CNVR39	chr25:218326-1683430	NUBP2	0.0010			
CNVR39	chr25:218326-1683430	IGFALS	0.0010			
CNVR39	chr25:218326-1683430	HAGH	0.0010			
CNVR39	chr25:218326-1683430	FAHD1	0.0010			
CNVR39	chr25:218326-1683430	MEIOB	0.0010			
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CNVR39	chr25:218326-1683430	RPL3L	0.0010			
CNVR39	chr25:218326-1683430	NDUFB10	0.0010			
CNVR39	chr25:218326-1683430	RPS2	0.0010			
CNVR39	chr25:218326-1683430	RNF151	0.0010			

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CNVR39	chr25:218326-1683430	NOXO1	0.0010	
CNVR39	chr25:218326-1683430	GFER	0.0010	
CNVR39	chr25:218326-1683430	SYNGR3	0.0010	
CNVR39	chr25:218326-1683430	ZNF598	0.0010	
CNVR39	chr25:218326-1683430	NPW	0.0010	
CNVR39	chr25:218326-1683430	SLC9A3R2	0.0010	
CNVR39	chr25:218326-1683430	NTHL1	0.0010	
CNVR39	chr25:218326-1683430	TSC2	0.0010	
CNVR39	chr25:218326-1683430	PKD1	0.0010	Polycystic kidney d domestic c: 000807
CNVR39	chr25:218326-1683430	RAB26	0.0010	
CNVR39	chr25:218326-1683430	TRAF7	0.0010	
CNVR39	chr25:218326-1683430	CASKIN1	0.0010	
CNVR39	chr25:218326-1683430	MLST8	0.0010	
CNVR39	chr25:218326-1683430	BRICD5	0.0010	
CNVR39	chr25:218326-1683430	PGP	0.0010	
CNVR39	chr25:218326-1683430	E4F1	0.0010	
CNVR39	chr25:218326-1683430	DNASE1L2	0.0010	
CNVR39	chr25:218326-1683430	ECI1	0.0010	
CNVR39	chr25:218326-1683430	RGS11	0.0010	
CNVR39	chr25:218326-1683430	ARHGDI3	0.0010	
CNVR159	chr9:14843604-15334673	TRDN	0.0010	
CNVR48	chr5:117814803-118948578	ODF3B	0.0009	
CNVR48	chr5:117814803-118948578	SYCE3	0.0009	
CNVR48	chr5:117814803-118948578	CPT1B	0.0009	
CNVR48	chr5:117814803-118948578	CHKB	0.0009	
CNVR48	chr5:117814803-118948578	MAPK8IP2	0.0009	
CNVR48	chr5:117814803-118948578	ARSA	0.0009	
CNVR48	chr5:117814803-118948578	SHANK3	0.0009	
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CNVR48	chr5:117814803-118948578	ALG12	0.0009	
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CNVR48	chr5:117814803-118948578	IL17REL	0.0009	
CNVR48	chr5:117814803-118948578	TTLL8	0.0009	
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CNVR48	chr5:117814803-118948578	MOV10L1	0.0009	
CNVR48	chr5:117814803-118948578	PANX2	0.0009	
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CNVR48	chr5:117814803-118948578	TUBGCP6	0.0009	
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CNVR48	chr5:117814803-118948578	MAPK12	0.0009	
CNVR48	chr5:117814803-118948578	MAPK11	0.0009	
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CNVR48	chr5:117814803-118948578	DENND6B	0.0009	
CNVR48	chr5:117814803-118948578	ADM2	0.0009	
CNVR48	chr5:117814803-118948578	MIOX	0.0009	
CNVR48	chr5:117814803-118948578	LMF2	0.0009	

CNVR48	chr5:117814803-118948578	NCAPH2	0.0009
CNVR61	chr18:64541376-65168566	TTYH1	0.0008
CNVR61	chr18:64541376-65168566	LENG8	0.0008
CNVR61	chr18:64541376-65168566	LENG9	0.0008
CNVR61	chr18:64541376-65168566	CDC42EP5	0.0008
CNVR61	chr18:64541376-65168566	RPS9	0.0008
CNVR61	chr18:64541376-65168566	TSEN34	0.0008
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CNVR61	chr18:64541376-65168566	TMC4	0.0008
CNVR61	chr18:64541376-65168566	LENG1	0.0008
CNVR61	chr18:64541376-65168566	CNOT3	0.0008
CNVR61	chr18:64541376-65168566	PRPF31	0.0008
CNVR61	chr18:64541376-65168566	TFPT	0.0008
CNVR61	chr18:64541376-65168566	NDUFA3	0.0008
CNVR61	chr18:64541376-65168566	OSCAR	0.0008
CNVR61	chr18:64541376-65168566	NLRP13	0.0008
CNVR61	chr18:64541376-65168566	NLRP8	0.0008
CNVR61	chr18:64541376-65168566	NLRP5	0.0008
CNVR61	chr18:64541376-65168566	ZNF787	0.0008
CNVR61	chr18:64541376-65168566	ZNF444	0.0008
CNVR61	chr18:64541376-65168566	ZNF667	0.0008
CNVR61	chr18:64541376-65168566	LAIR1	0.0008
CNVR54	chr3:349016-1327111	SEPT2	0.0008
CNVR54	chr3:349016-1327111	HDLBP	0.0008
CNVR54	chr3:349016-1327111	ANO7	0.0008
CNVR54	chr3:349016-1327111	PPP1R7	0.0008
CNVR54	chr3:349016-1327111	PASK	0.0008
CNVR54	chr3:349016-1327111	MTERF4	0.0008
CNVR54	chr3:349016-1327111	SNED1	0.0008
CNVR54	chr3:349016-1327111	CROCC2	0.0008
CNVR54	chr3:349016-1327111	AGXT	0.0008
CNVR54	chr3:349016-1327111	KIF1A	0.0008
CNVR54	chr3:349016-1327111	GPR35	0.0008
CNVR54	chr3:349016-1327111	CAPN10	0.0008
CNVR54	chr3:349016-1327111	RNPEPL1	0.0008
CNVR54	chr3:349016-1327111	DUSP28	0.0008
CNVR54	chr3:349016-1327111	ANKMY1	0.0008
CNVR54	chr3:349016-1327111	GPC1	0.0008
CNVR54	chr3:349016-1327111	ING5	0.0008
CNVR54	chr3:349016-1327111	DTYMK	0.0008
CNVR54	chr3:349016-1327111	ATG4B	0.0008
CNVR54	chr3:349016-1327111	THAP4	0.0008
CNVR54	chr3:349016-1327111	BOK	0.0008
CNVR54	chr3:349016-1327111	STK25	0.0008
CNVR54	chr3:349016-1327111	FARP2	0.0008
CNVR79	chr15:30844369-31003231	PDE2A	0.0008
CNVR79	chr15:30844369-31003231	VPS26B	0.0008
CNVR79	chr15:30844369-31003231	THYN1	0.0008

CNVR79	chr15:30844369-31003231	ACAD8	0.0008		
CNVR63	chr21:66057376-67177748	PPP2R5C	0.0008		
CNVR63	chr21:66057376-67177748	DYNC1H1	0.0008		
CNVR63	chr21:66057376-67177748	HSP90AA1	0.0008		
CNVR63	chr21:66057376-67177748	WDR20	0.0008		
CNVR63	chr21:66057376-67177748	MOK	0.0008		
CNVR63	chr21:66057376-67177748	ZNF839	0.0008		
CNVR63	chr21:66057376-67177748	CINP	0.0008		
CNVR63	chr21:66057376-67177748	TECPR2	0.0008	Neuroaxonal dyst dog	001975
CNVR63	chr21:66057376-67177748	ANKRD9	0.0008		
CNVR63	chr21:66057376-67177748	RCOR1	0.0008		
CNVR63	chr21:66057376-67177748	TRAF3	0.0008		
CNVR63	chr21:66057376-67177748	AMN	0.0008	Intestinal cobalam dog	000565
CNVR63	chr21:66057376-67177748	CDC42BPB	0.0008		
CNVR63	chr21:66057376-67177748	EXOC3L4	0.0008		
CNVR63	chr21:66057376-67177748	TNFAIP2	0.0008		
CNVR25	chr6:8614278-10000334	TRAM1L1	0.0008		
CNVR38	chr4:115612273-115949298	COBL	0.0008		
CNVR44	chr3:66098250-66718499	KYAT3	0.0007		
CNVR44	chr3:66098250-66718499	PKN2	0.0007		
CNVR44	chr3:66098250-66718499	GTF2B	0.0007		
CNVR222	chr4:10648687-10757631	CNTNAP2	0.0007		
CNVR46	chr24:220589-1103061	PARD6G	0.0006		
CNVR46	chr24:220589-1103061	ADNP2	0.0006		
CNVR46	chr24:220589-1103061	RBFA	0.0006		
CNVR46	chr24:220589-1103061	TXNL4A	0.0006		
CNVR46	chr24:220589-1103061	HSBP1L1	0.0006		
CNVR46	chr24:220589-1103061	PQLC1	0.0006		
CNVR46	chr24:220589-1103061	KCNG2	0.0006		
CNVR46	chr24:220589-1103061	CTDP1	0.0006		
CNVR46	chr24:220589-1103061	NFATC1	0.0006		
CNVR46	chr24:220589-1103061	ATP9B	0.0006		
CNVR46	chr24:220589-1103061	SALL3	0.0006		
CNVR92	chr1:153745929-154192192	PLCL2	0.0006		
CNVR92	chr1:153745929-154192192	TBC1D5	0.0006		
CNVR91	chr18:66837266-67182157	ZNF329	0.0006		
CNVR91	chr18:66837266-67182157	ZNF274	0.0006		
CNVR91	chr18:66837266-67182157	ZNF8	0.0006		
CNVR91	chr18:66837266-67182157	ZNF584	0.0006		
CNVR91	chr18:66837266-67182157	ZNF132	0.0006		
CNVR91	chr18:66837266-67182157	ZNF446	0.0006		
CNVR91	chr18:66837266-67182157	SLC27A5	0.0006		
CNVR91	chr18:66837266-67182157	ZBTB45	0.0006		
CNVR91	chr18:66837266-67182157	ZSCAN22	0.0006		
CNVR91	chr18:66837266-67182157	A1BG	0.0006		
CNVR91	chr18:66837266-67182157	RPS5	0.0006		
CNVR91	chr18:66837266-67182157	RNF225	0.0006		
CNVR27	chr7:107678302-108372414	RASGEF1C	0.0006		

CNVR27	chr7:107678302-108372414	MAPK9	0.0006		
CNVR27	chr7:107678302-108372414	GFPT2	0.0006		
CNVR27	chr7:107678302-108372414	CNOT6	0.0006		
CNVR27	chr7:107678302-108372414	FLT4	0.0006		
CNVR78	chr29:48341041-48751981	ANO1	0.0005		
CNVR78	chr29:48341041-48751981	FADD	0.0005		
CNVR78	chr29:48341041-48751981	PPFIA1	0.0005		
CNVR78	chr29:48341041-48751981	CTTN	0.0005		
CNVR78	chr29:48341041-48751981	SHANK2	0.0005		
CNVR93	chr29:49708126-49792624	PHLDA2	0.0005		
CNVR93	chr29:49708126-49792624	SLC22A18	0.0005		
CNVR93	chr29:49708126-49792624	CDKN1C	0.0005		
CNVR93	chr29:49708126-49792624	KCNQ1	0.0005		
CNVR75	chr3:107152031-107298025	FCRL5	0.0005		
CNVR75	chr3:107152031-107298025	FCRL4	0.0005		
CNVR47	chr14:332064-1054637	SNTB1	0.0004		
CNVR47	chr14:332064-1054637	MTBP	0.0004		
CNVR47	chr14:332064-1054637	MRPL13	0.0004		
CNVR47	chr14:332064-1054637	COL14A1	0.0004		
CNVR47	chr14:332064-1054637	DEPTOR	0.0004		
CNVR47	chr14:332064-1054637	DSCC1	0.0004		
CNVR47	chr14:332064-1054637	TAF2	0.0004		
CNVR73	chr4:2250200-2775129	SHH	0.0004	Polydactyly	domestic c.000810
CNVR73	chr4:2250200-2775129	EN2	0.0004		
CNVR73	chr4:2250200-2775129	INSIG1	0.0004		
CNVR73	chr4:2250200-2775129	RBM33	0.0004		
CNVR73	chr4:2250200-2775129	CNPY1	0.0004		
CNVR138	chr27:5100808-5417544	RARB	0.0004		
CNVR152	chr24:3315348-4054458	TSHZ1	0.0004		
CNVR152	chr24:3315348-4054458	ZADH2	0.0004		
CNVR152	chr24:3315348-4054458	ZNF407	0.0004		
CNVR152	chr24:3315348-4054458	CNDP1	0.0004		
CNVR152	chr24:3315348-4054458	CNDP2	0.0004		
CNVR152	chr24:3315348-4054458	FAM69C	0.0004		
CNVR56	chr1:38797096-39793993	EPHA6	0.0004		
CNVR157	chr7:88779618-89043687	RAD50	0.0004		
CNVR157	chr7:88779618-89043687	KIF3A	0.0004		
CNVR157	chr7:88779618-89043687	SEPT8	0.0004		
CNVR126	chr23:15028145-15342928	NQO2	0.0004		
CNVR126	chr23:15028145-15342928	RIPK1	0.0004		
CNVR126	chr23:15028145-15342928	BPHL	0.0004		
CNVR126	chr23:15028145-15342928	TUBB2A	0.0004		
CNVR126	chr23:15028145-15342928	PSMG4	0.0004		
CNVR126	chr23:15028145-15342928	SLC22A23	0.0004		
CNVR90	chr26:2472972-3256573	GLRX3	0.0004		
CNVR90	chr26:2472972-3256573	EBF3	0.0004		
CNVR90	chr26:2472972-3256573	MGMT	0.0004		
CNVR51	chr29:45588359-46608475	NDUFS8	0.0004		

CNVR51	chr29:45588359-46608475	CLCF1	0.0004
CNVR51	chr29:45588359-46608475	RAD9A	0.0004
CNVR51	chr29:45588359-46608475	PPP1CA	0.0004
CNVR51	chr29:45588359-46608475	POLR2L	0.0004
CNVR51	chr29:45588359-46608475	CD151	0.0004
CNVR51	chr29:45588359-46608475	RPLP2	0.0004
CNVR51	chr29:45588359-46608475	SLC25A22	0.0004
CNVR51	chr29:45588359-46608475	CEND1	0.0004
CNVR51	chr29:45588359-46608475	PDDC1	0.0004
CNVR51	chr29:45588359-46608475	EPS8L2	0.0004
CNVR51	chr29:45588359-46608475	TMEM80	0.0004
CNVR51	chr29:45588359-46608475	DEAF1	0.0004
CNVR51	chr29:45588359-46608475	DRD4	0.0004
CNVR51	chr29:45588359-46608475	SCT	0.0004
CNVR51	chr29:45588359-46608475	CDHR5	0.0004
CNVR51	chr29:45588359-46608475	IRF7	0.0004
CNVR51	chr29:45588359-46608475	PHRF1	0.0004
CNVR51	chr29:45588359-46608475	RASSF7	0.0004
CNVR51	chr29:45588359-46608475	LRRCS6	0.0004
CNVR51	chr29:45588359-46608475	HRAS	0.0004
CNVR51	chr29:45588359-46608475	RNH1	0.0004
CNVR51	chr29:45588359-46608475	PTDSS2	0.0004
CNVR51	chr29:45588359-46608475	ANO9	0.0004
CNVR51	chr29:45588359-46608475	SIGIRR	0.0004
CNVR51	chr29:45588359-46608475	PKP3	0.0004
CNVR51	chr29:45588359-46608475	PGGHG	0.0004
CNVR51	chr29:45588359-46608475	IFITM5	0.0004
CNVR51	chr29:45588359-46608475	B4GALNT4	0.0004
CNVR51	chr29:45588359-46608475	AP2A2	0.0004
CNVR51	chr29:45588359-46608475	MUC6	0.0004
CNVR51	chr29:45588359-46608475	GPR152	0.0004
CNVR51	chr29:45588359-46608475	TMEM134	0.0004
CNVR51	chr29:45588359-46608475	AIP	0.0004
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CNVR51	chr29:45588359-46608475	CDK2AP2	0.0004
CNVR51	chr29:45588359-46608475	CABP2	0.0004
CNVR51	chr29:45588359-46608475	NDUFV1	0.0004
CNVR51	chr29:45588359-46608475	NUDT8	0.0004
CNVR51	chr29:45588359-46608475	TBX10	0.0004
CNVR51	chr29:45588359-46608475	UNC93B1	0.0004
CNVR51	chr29:45588359-46608475	ALDH3B1	0.0004
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CNVR51	chr29:45588359-46608475	SSH3	0.0004
CNVR51	chr29:45588359-46608475	POLD4	0.0004
CNVR110	chr5:11659559-14309086	CCDC59	0.0003
CNVR110	chr5:11659559-14309086	METTL25	0.0003
CNVR110	chr5:11659559-14309086	TMTC2	0.0003

CNVR95	chr9:88180866-89539337	RPS6KA2	0.0003		
CNVR95	chr9:88180866-89539337	RNASSET2	0.0003		
CNVR95	chr9:88180866-89539337	FGFR1OP	0.0003		
CNVR95	chr9:88180866-89539337	CCR6	0.0003		
CNVR95	chr9:88180866-89539337	GPR31	0.0003		
CNVR95	chr9:88180866-89539337	TLL2	0.0003		
CNVR95	chr9:88180866-89539337	UNC93A	0.0003		
CNVR95	chr9:88180866-89539337	PDE10A	0.0003		
CNVR95	chr9:88180866-89539337	T	0.0003	Tail, short	dog, dome: 000975
CNVR95	chr9:88180866-89539337	PRR18	0.0003		
CNVR95	chr9:88180866-89539337	SFT2D1	0.0003		
CNVR95	chr9:88180866-89539337	MPC1	0.0003		
CNVR82	chr8:582488-1142320	PALLD	0.0003		
CNVR82	chr8:582488-1142320	CBR4	0.0003		
CNVR82	chr8:582488-1142320	SH3RF1	0.0003		
CNVR67	chr27:25236788-25444255	FGF20	0.0003	Scaleless	chicken 000889
CNVR67	chr27:25236788-25444255	MICU3	0.0003		
CNVR59	chr27:1338387-1884247	ZNF385D	0.0003		
CNVR24	chr23:47788379-48834600	KHDRBS2	0.0003		
CNVR98	chr7:106583259-106771982	ADAMTS2	0.0003	Ehlers-Danlos sync cattle, shee	000328
CNVR71	chr14:79378786-79749648	DENND3	0.0003		
CNVR71	chr14:79378786-79749648	SLC45A4	0.0003		
CNVR71	chr14:79378786-79749648	GPR20	0.0003		
CNVR71	chr14:79378786-79749648	PTP4A3	0.0003		
CNVR71	chr14:79378786-79749648	MROH5	0.0003		
CNVR65	chr6:22308-2047202	MARCH1	0.0003		
CNVR65	chr6:22308-2047202	APELA	0.0003		
CNVR89	chr4:62451-715351	WDR60	0.0003		
CNVR89	chr4:62451-715351	ESYT2	0.0003		
CNVR89	chr4:62451-715351	NCAPG2	0.0003		
CNVR89	chr4:62451-715351	PTPRN2	0.0003		
CNVR89	chr4:62451-715351	VIPR2	0.0003		
CNVR339	chr11:38072888-38247631	EFEMP1	0.0002		
CNVR275	chr6:86080909-86209708	ODAM	0.0002		
CNVR141	chr3:5125312-5705846	AGAP1	0.0002		
CNVR77	chr20:46424799-47167387	CDH9	0.0002		
CNVR223	chr1:132309148-132501677	STAG1	0.0002		
CNVR223	chr1:132309148-132501677	PCCB	0.0002		
CNVR117	chr3:2222064-2516803	HDAC4	0.0002		
CNVR440	chr11:58362651-58514722	LRRTM4	0.0002		
CNVR137	chr5:108840-860995	TSPAN8	0.0002		
CNVR181	chr24:60953858-62183185	VPS4B	0.0002		
CNVR181	chr24:60953858-62183185	SERPINB5	0.0002		
CNVR181	chr24:60953858-62183185	TNFRSF11A	0.0002		
CNVR181	chr24:60953858-62183185	ZCCHC2	0.0002		
CNVR181	chr24:60953858-62183185	PHLPP1	0.0002		
CNVR181	chr24:60953858-62183185	KDSR	0.0002	Spinal muscular at cattle	000939
CNVR181	chr24:60953858-62183185	SERPINB11	0.0002	Hoof wall separati horse	001897

CNVR181	chr24:60953858-62183185	SERPINB7	0.0002
CNVR116	chr3:3026943-3303405	ESPNL	0.0002
CNVR116	chr3:3026943-3303405	TRAF3IP1	0.0002
CNVR116	chr3:3026943-3303405	PER2	0.0002
CNVR116	chr3:3026943-3303405	HES6	0.0002
CNVR116	chr3:3026943-3303405	ILKAP	0.0002
CNVR116	chr3:3026943-3303405	ERFE	0.0002
CNVR116	chr3:3026943-3303405	KLHL30	0.0002
CNVR116	chr3:3026943-3303405	SCLY	0.0002
CNVR130	chr7:1227401-3004872	TMEM232	0.0002
CNVR130	chr7:1227401-3004872	MAN2A1	0.0002
CNVR130	chr7:1227401-3004872	PJA2	0.0002
CNVR130	chr7:1227401-3004872	FER	0.0002
CNVR129	chr13:33584844-34013084	ZNF438	0.0002
CNVR129	chr13:33584844-34013084	SVIL	0.0002
CNVR156	chr4:57419911-57607573	BMPER	0.0002
CNVR70	chr16:34115525-34231258	RGS7	0.0002
CNVR85	chr8:58825085-59052082	FAM205C	0.0002
CNVR53	chr14:26058923-26314061	EMC2	0.0002
CNVR115	chr12:72996126-73332412	ENOX1	0.0002
CNVR115	chr12:72996126-73332412	DNAJC15	0.0002
CNVR103	chr16:74965554-75810738	CRB1	0.0002
CNVR103	chr16:74965554-75810738	NEK7	0.0002
CNVR103	chr16:74965554-75810738	DENND1B	0.0002
CNVR103	chr16:74965554-75810738	LHX9	0.0002
CNVR94	chr18:57911618-57982792	ACPT	0.0002
CNVR94	chr18:57911618-57982792	GPR32	0.0002
CNVR175	chr29:12359291-12983191	FAM181B	0.0002
CNVR84	chr10:57679258-57949639	OAZ2	0.0001
CNVR84	chr10:57679258-57949639	RBPMS2	0.0001
CNVR84	chr10:57679258-57949639	PIF1	0.0001
CNVR84	chr10:57679258-57949639	PLEKHO2	0.0001
CNVR84	chr10:57679258-57949639	PTGDR	0.0001
CNVR131	chr23:45010453-45458947	DST	0.0001
CNVR107	chr1:144909367-145273699	ADARB1	0.0001
CNVR107	chr1:144909367-145273699	POFUT2	0.0001
CNVR107	chr1:144909367-145273699	COL18A1	0.0001
CNVR107	chr1:144909367-145273699	SLC19A1	0.0001
CNVR127	chr2:136086596-136475658	OCA2	0.0001
CNVR127	chr2:136086596-136475658	LGSN	0.0001
CNVR104	chr16:74571028-74805855	ZBTB41	0.0001
CNVR104	chr16:74571028-74805855	CRB1	0.0001
CNVR104	chr16:74571028-74805855	ASPM	0.0001
CNVR104	chr16:74571028-74805855	CFHR5	0.0001
CNVR231	chr2:13861-250236	CLCNKA	0.0001
CNVR231	chr2:13861-250236	HSPB7	0.0001
CNVR231	chr2:13861-250236	FAM131C	0.0001
CNVR231	chr2:13861-250236	EPHA2	0.0001

Coat colour, ocular Mexican te 002130

CNVR231	chr2:13861-250236	ARHGEF19	0.0001			
CNVR215	chr15:30441621-30600838	FCHSD2	0.0001			
CNVR171	chr25:39998687-40430012	PAPOLB	0.0001			
CNVR171	chr25:39998687-40430012	AP5Z1	0.0001			
CNVR171	chr25:39998687-40430012	FOXK1	0.0001			
CNVR171	chr25:39998687-40430012	SDK1	0.0001			
CNVR184	chr9:89587523-90109612	AFDN	0.0001			
CNVR184	chr9:89587523-90109612	KIF25	0.0001			
CNVR184	chr9:89587523-90109612	DACT2	0.0001			
CNVR184	chr9:89587523-90109612	SMOC2	0.0001	Brachycephaly	dog	001551
CNVR140	chr26:28287024-28446758	WBP1L	0.0001			
CNVR140	chr26:28287024-28446758	SFXN2	0.0001			
CNVR140	chr26:28287024-28446758	ARL3	0.0001			
CNVR140	chr26:28287024-28446758	TRIM8	0.0001			
CNVR132	chr17:63012634-63391313	DCLK2	0.0001			
CNVR132	chr17:63012634-63391313	LRBA	0.0001			
CNVR182	chr17:30853999-30953291	FNIP2	0.0001	Hypomyelination c	dog	000526
CNVR72	chr2:123933312-124821874	ZNF804A	0.0001			
CNVR149	chr26:45870623-46285242	PCDH15	0.0001			
CNVR114	chr2:99159206-99399810	BAZ2B	0.0001			
CNVR276	chr19:47379297-47511441	KCNH6	0.0001			
CNVR276	chr19:47379297-47511441	DCAF7	0.0001			
CNVR458	chr22:52360808-52732194	SETD2	0.0001			
CNVR458	chr22:52360808-52732194	NBEAL2	0.0001			
CNVR458	chr22:52360808-52732194	CCDC12	0.0001			
CNVR458	chr22:52360808-52732194	PTH1R	0.0001			
CNVR208	chr16:59671764-60045932	TOR1AIP1	0.0001			
CNVR208	chr16:59671764-60045932	CEP350	0.0001			
CNVR208	chr16:59671764-60045932	QSOX1	0.0001			
CNVR208	chr16:59671764-60045932	LHX4	0.0001			
CNVR458	chr22:52360808-52732194	KLHL18	0.0001			
CNVR458	chr22:52360808-52732194	KIF9	0.0001			
CNVR458	chr22:52360808-52732194	MYL3	0.0001			
CNVR456	chr2:55105878-55191169	TMEFF2	0.0001			
CNVR108	chr11:103407881-104950126	REXO4	0.0001			
CNVR108	chr11:103407881-104950126	ADAMTS13	0.0001			
CNVR108	chr11:103407881-104950126	CACFD1	0.0001			
CNVR108	chr11:103407881-104950126	SLC2A6	0.0001			
CNVR108	chr11:103407881-104950126	TMEM8C	0.0001			
CNVR108	chr11:103407881-104950126	ADAMTSL2	0.0001	Musladin-Lueke sy	dog	001509
CNVR108	chr11:103407881-104950126	FAM163B	0.0001			
CNVR108	chr11:103407881-104950126	DBH	0.0001			
CNVR108	chr11:103407881-104950126	SARDH	0.0001			
CNVR108	chr11:103407881-104950126	VAV2	0.0001			
CNVR108	chr11:103407881-104950126	BRD3	0.0001			
CNVR108	chr11:103407881-104950126	WDR5	0.0001			
CNVR108	chr11:103407881-104950126	CLIC3	0.0001			
CNVR108	chr11:103407881-104950126	RABL6	0.0001			

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CNVR108	chr11:103407881-104950126	LCN6	0.0001		
CNVR108	chr11:103407881-104950126	LCN10	0.0001		
CNVR108	chr11:103407881-104950126	MRPS2	0.0001		
CNVR108	chr11:103407881-104950126	PPP1R26	0.0001		
CNVR108	chr11:103407881-104950126	OLFM1	0.0001		
CNVR108	chr11:103407881-104950126	EGFL7	0.0001		
CNVR108	chr11:103407881-104950126	AGPAT2	0.0001		
CNVR108	chr11:103407881-104950126	FAM69B	0.0001		
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CNVR108	chr11:103407881-104950126	SURF6	0.0001		
CNVR108	chr11:103407881-104950126	MED22	0.0001	Abortion (embryor cattle	002043
CNVR108	chr11:103407881-104950126	RPL7A	0.0001		
CNVR108	chr11:103407881-104950126	SURF2	0.0001		
CNVR108	chr11:103407881-104950126	SURF4	0.0001		
CNVR341	chr20:2904384-3020956	RANBP17	0.0001		
CNVR225	chr11:82348757-82597945	DDX1	0.0001		
CNVR225	chr11:82348757-82597945	NBAS	0.0001		
CNVR109	chr25:38139396-39274894	TRRAP	0.0001		
CNVR109	chr25:38139396-39274894	TMEM130	0.0001		
CNVR109	chr25:38139396-39274894	NPTX2	0.0001		
CNVR109	chr25:38139396-39274894	BAIAP2L1	0.0001		
CNVR109	chr25:38139396-39274894	TECPR1	0.0001		
CNVR109	chr25:38139396-39274894	BHLHA15	0.0001		
CNVR109	chr25:38139396-39274894	LMTK2	0.0001		
CNVR109	chr25:38139396-39274894	OCM2	0.0001		
CNVR109	chr25:38139396-39274894	CCZ1	0.0001		
CNVR109	chr25:38139396-39274894	PMS2	0.0001		
CNVR109	chr25:38139396-39274894	AIMP2	0.0001		
CNVR109	chr25:38139396-39274894	EIF2AK1	0.0001		
CNVR109	chr25:38139396-39274894	ANKRD61	0.0001		
CNVR109	chr25:38139396-39274894	USP42	0.0001		
CNVR109	chr25:38139396-39274894	CYTH3	0.0001		
CNVR109	chr25:38139396-39274894	FAM220A	0.0001		
CNVR109	chr25:38139396-39274894	RAC1	0.0001		
CNVR109	chr25:38139396-39274894	DAGLB	0.0001		
CNVR109	chr25:38139396-39274894	KDEL2	0.0001		
CNVR109	chr25:38139396-39274894	GRID2IP	0.0001		
CNVR109	chr25:38139396-39274894	ZDHHC4	0.0001		
CNVR109	chr25:38139396-39274894	BRI3	0.0001		
CNVR111	chr2:132306650-132392324	HS6ST1	0.0001		
CNVR123	chr6:32579713-33416312	GRID2	0.0001		
CNVR148	chr21:1893967-2183843	ATP10A	0.0001		
CNVR81	chr4:95414503-96850045	ANKMY2	0.0001		
CNVR81	chr4:95414503-96850045	LRRC72	0.0001		
CNVR81	chr4:95414503-96850045	SOSTDC1	0.0001		
CNVR81	chr4:95414503-96850045	ISPD	0.0001		

CNVR81	chr4:95414503-96850045	MEOX2	0.0001		
CNVR81	chr4:95414503-96850045	AGMO	0.0001		
CNVR153	chr2:92655933-92753615	PRPF40A	0.0001		
CNVR153	chr2:92655933-92753615	ARL6IP6	0.0001		
CNVR227	chr13:72542824-72636178	PKIG	0.0001		
CNVR227	chr13:72542824-72636178	ADA	0.0001		
CNVR125	chr7:1079-127968	STARD4	0.0001		
CNVR125	chr7:1079-127968	CAMK4	0.0001		
CNVR179	chr28:15803416-16016815	CAMK2G	0.0001		
CNVR179	chr28:15803416-16016815	NDST2	0.0001		
CNVR179	chr28:15803416-16016815	ZSWIM8	0.0001		
CNVR179	chr28:15803416-16016815	CHCHD1	0.0001		
CNVR179	chr28:15803416-16016815	FUT11	0.0001		
CNVR179	chr28:15803416-16016815	SEC24C	0.0001		
CNVR179	chr28:15803416-16016815	SYNPO2L	0.0001		
CNVR179	chr28:15803416-16016815	MYOZ1	0.0001		
CNVR287	chr13:53499132-53941826	YTHDF1	0.0001		
CNVR287	chr13:53499132-53941826	BHLHE23	0.0001		
CNVR287	chr13:53499132-53941826	SLC17A9	0.0001		
CNVR287	chr13:53499132-53941826	GID8	0.0001		
CNVR287	chr13:53499132-53941826	DIDO1	0.0001		
CNVR287	chr13:53499132-53941826	TCFL5	0.0001		
CNVR287	chr13:53499132-53941826	COL9A3	0.0001	Oculoskeletal dysp dog	001522
CNVR287	chr13:53499132-53941826	OGFR	0.0001		
CNVR287	chr13:53499132-53941826	MRGBP	0.0001		
CNVR287	chr13:53499132-53941826	NTSR1	0.0001		
CNVR286	chr11:102075796-102218431	CFAP77	0.0001		
CNVR286	chr11:102075796-102218431	BARHL1	0.0001		
CNVR286	chr11:102075796-102218431	DDX31	0.0001		
CNVR286	chr11:102075796-102218431	GTF3C4	0.0001		
CNVR287	chr13:53499132-53941826	KCNQ2	0.0001		
CNVR287	chr13:53499132-53941826	CHRNA4	0.0001		
CNVR287	chr13:53499132-53941826	COL20A1	0.0001		
CNVR287	chr13:53499132-53941826	ARFGAP1	0.0001		
CNVR287	chr13:53499132-53941826	BIRC7	0.0001		
CNVR209	chr8:110673261-110877615	COLEC11	0.0001		
CNVR209	chr8:110673261-110877615	RPS7	0.0001		
CNVR209	chr8:110673261-110877615	RNASEH1	0.0001		
CNVR209	chr8:110673261-110877615	ADI1	0.0001		
CNVR209	chr8:110673261-110877615	TRAPPC12	0.0001		
CNVR209	chr8:110673261-110877615	TSSC1	0.0001		
CNVR210	chr11:102687644-103216934	GLT6D1	0.0001		
CNVR210	chr11:102687644-103216934	LCN9	0.0001		
CNVR210	chr11:102687644-103216934	SOHLH1	0.0001		
CNVR210	chr11:102687644-103216934	KCNT1	0.0001		
CNVR210	chr11:102687644-103216934	CAMSAP1	0.0001		
CNVR210	chr11:102687644-103216934	UBAC1	0.0001		
CNVR210	chr11:102687644-103216934	NACC2	0.0001		

CNVR210	chr11:102687644-103216934	CCDC187	0.0001		
CNVR167	chr7:58209310-58734465	HARS2	0.0001		
CNVR167	chr7:58209310-58734465	HARS	0.0001		
CNVR167	chr7:58209310-58734465	DND1	0.0001		
CNVR167	chr7:58209310-58734465	WDR55	0.0001		
CNVR167	chr7:58209310-58734465	IK	0.0001		
CNVR167	chr7:58209310-58734465	NDUFA2	0.0001		
CNVR167	chr7:58209310-58734465	TMCO6	0.0001		
CNVR167	chr7:58209310-58734465	CD14	0.0001		
CNVR167	chr7:58209310-58734465	PCDHB7	0.0001		
CNVR167	chr7:58209310-58734465	PCDHB1	0.0001		
CNVR167	chr7:58209310-58734465	ZMAT2	0.0001		
CNVR167	chr7:58209310-58734465	PCDHB16	0.0001		
CNVR100	chr29:42500827-42809961	MARK2	0.0001		
CNVR100	chr29:42500827-42809961	RCOR2	0.0001		
CNVR100	chr29:42500827-42809961	NAA40	0.0001		
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CNVR100	chr29:42500827-42809961	MACROD1	0.0001		
CNVR100	chr29:42500827-42809961	CORO1B	0.0001		
CNVR100	chr29:42500827-42809961	PTPRCAP	0.0001		
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CNVR100	chr29:42500827-42809961	CARNS1	0.0001		
CNVR100	chr29:42500827-42809961	TBC1D10C	0.0001		
CNVR162	chr17:26123195-26325287	EP400	0.0001		
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CNVR162	chr17:26123195-26325287	NOC4L	0.0001		
CNVR162	chr17:26123195-26325287	GALNT9	0.0001		
CNVR133	chr18:15106987-15464370	ZNF469	0.0001		
CNVR133	chr18:15106987-15464370	ZFPM1	0.0001		
CNVR133	chr18:15106987-15464370	ZC3H18	0.0001		
CNVR133	chr18:15106987-15464370	IL17C	0.0001		
CNVR133	chr18:15106987-15464370	MVD	0.0001		
CNVR133	chr18:15106987-15464370	SNAI3	0.0001		
CNVR133	chr18:15106987-15464370	CTU2	0.0001		
CNVR133	chr18:15106987-15464370	RNF166	0.0001		
CNVR133	chr18:15106987-15464370	PIEZO1	0.0001		
CNVR133	chr18:15106987-15464370	CDT1	0.0001		
CNVR133	chr18:15106987-15464370	APRT	0.0001		
CNVR133	chr18:15106987-15464370	GALNS	0.0001		
CNVR133	chr18:15106987-15464370	TRAPPC2L	0.0001		
CNVR133	chr18:15106987-15464370	PABPN1L	0.0001		
CNVR133	chr18:15106987-15464370	CBFA2T3	0.0001		
CNVR158	chr1:60322989-60498181	LSAMP	0.0001		
CNVR202	chr19:26724394-27074197	SOX15	0.0001		
CNVR202	chr19:26724394-27074197	FXR2	0.0001		
CNVR202	chr19:26724394-27074197	DLG4	0.0001		
CNVR202	chr19:26724394-27074197	ACADVL	0.0001	Exercise induced n dog	002140
CNVR202	chr19:26724394-27074197	DVL2	0.0001		

CNVR202	chr19:26724394-27074197	PHF23	0.0001			
CNVR202	chr19:26724394-27074197	GABARAP	0.0001			
CNVR202	chr19:26724394-27074197	CTDNBP1	0.0001			
CNVR202	chr19:26724394-27074197	ELP5	0.0001			
CNVR202	chr19:26724394-27074197	CLDN7	0.0001			
CNVR202	chr19:26724394-27074197	YBX2	0.0001			
CNVR202	chr19:26724394-27074197	EIF5A	0.0001			
CNVR202	chr19:26724394-27074197	GPS2	0.0001			
CNVR202	chr19:26724394-27074197	KCTD11	0.0001			
CNVR202	chr19:26724394-27074197	TMEM95	0.0001	Male subfertility	cattle	001902
CNVR202	chr19:26724394-27074197	TNK1	0.0001			
CNVR202	chr19:26724394-27074197	PLSCR3	0.0001			
CNVR202	chr19:26724394-27074197	TMEM256	0.0001			
CNVR202	chr19:26724394-27074197	NLGN2	0.0001			
CNVR202	chr19:26724394-27074197	SPEM1	0.0001			
CNVR202	chr19:26724394-27074197	TMEM102	0.0001			
CNVR202	chr19:26724394-27074197	FGF11	0.0001			
CNVR202	chr19:26724394-27074197	CHRNA1	0.0001	Arthrogryposis mu	cattle	002022
CNVR202	chr19:26724394-27074197	ZBTB4	0.0001			
CNVR202	chr19:26724394-27074197	SLC35G6	0.0001			
CNVR202	chr19:26724394-27074197	POLR2A	0.0001			
CNVR202	chr19:26724394-27074197	TNFSF12	0.0001			
CNVR202	chr19:26724394-27074197	TNFSF13	0.0001			
CNVR202	chr19:26724394-27074197	SENP3	0.0001			
CNVR202	chr19:26724394-27074197	EIF4A1	0.0001			
CNVR202	chr19:26724394-27074197	CD68	0.0001			
CNVR202	chr19:26724394-27074197	MPDU1	0.0001			
CNVR202	chr19:26724394-27074197	NEURL4	0.0001			
CNVR202	chr19:26724394-27074197	ACAP1	0.0001			
CNVR442	chr20:1807530-1903845	DOCK2	0.0001			
CNVR441	chr19:38509750-38614803	NPEPPS	0.0001			
CNVR441	chr19:38509750-38614803	MRPL45	0.0001			
CNVR442	chr20:1807530-1903845	FAM196B	0.0001			
CNVR252	chr3:15985626-16120558	FOXO6	0.0001			
CNVR252	chr3:15985626-16120558	EDN2	0.0001			
CNVR190	chr10:53838083-55208955	RORA	0.0001			
CNVR190	chr10:53838083-55208955	VPS13C	0.0001			
CNVR212	chr2:4566719-4848635	ECE1	0.0001			
CNVR212	chr2:4566719-4848635	ALPL	0.0001			
CNVR212	chr2:4566719-4848635	RAP1GAP	0.0001			
CNVR211	chr28:44329974-44604756	RHOA	0.0001			
CNVR144	chr29:38274733-39014509	PAG-3	0.0001			
CNVR144	chr29:38274733-39014509	PAG-6	0.0001			
CNVR121	chr4:8320649-8535745	ZNF786	0.0001			
CNVR121	chr4:8320649-8535745	ZNF212	0.0001			
CNVR121	chr4:8320649-8535745	ZNF282	0.0001			
CNVR121	chr4:8320649-8535745	ZNF398	0.0001			
CNVR121	chr4:8320649-8535745	PDIA4	0.0001			

CNVR121	chr4:8320649-8535745	ZNF783	0.0001
CNVR60	chr19:52200671-52920434	C1QTNF1	0.0001
CNVR60	chr19:52200671-52920434	CANT1	0.0001
CNVR60	chr19:52200671-52920434	LGALS3BP	0.0001
CNVR60	chr19:52200671-52920434	TIMP2	0.0001
CNVR60	chr19:52200671-52920434	CEP295NL	0.0001
CNVR60	chr19:52200671-52920434	USP36	0.0001
CNVR60	chr19:52200671-52920434	CYTH1	0.0001
CNVR60	chr19:52200671-52920434	DNAH17	0.0001
CNVR60	chr19:52200671-52920434	RBFOX3	0.0001
CNVR60	chr19:52200671-52920434	ENGASE	0.0001
CNVR373	chr15:37317646-37602965	OVCH2	0.0001
CNVR375	chr16:21613366-22000559	EPRS	0.0001
CNVR373	chr15:37317646-37602965	PPFIBP2	0.0001
CNVR375	chr16:21613366-22000559	SLC30A10	0.0001
CNVR221	chr18:22982454-23106302	CHD9	0.0001
CNVR220	chr12:57668107-58162941	FRY	0.0001
CNVR220	chr12:57668107-58162941	ZAR1L	0.0001
CNVR220	chr12:57668107-58162941	BRCA2	0.0001
CNVR220	chr12:57668107-58162941	N4BP2L1	0.0001
CNVR220	chr12:57668107-58162941	N4BP2L2	0.0001
CNVR151	chr10:51617654-51927535	ADAM10	0.0001
CNVR151	chr10:51617654-51927535	FAM63B	0.0001
CNVR151	chr10:51617654-51927535	SLTM	0.0001
CNVR151	chr10:51617654-51927535	RNF111	0.0001
CNVR142	chr7:72722218-73050578	CLTB	0.0001
CNVR142	chr7:72722218-73050578	HIGD2A	0.0001
CNVR142	chr7:72722218-73050578	NOP16	0.0001
CNVR142	chr7:72722218-73050578	ARL10	0.0001
CNVR142	chr7:72722218-73050578	COMMD10	0.0001
CNVR302	chr29:39451438-39649276	APOOL	0.0001
CNVR263	chr6:101920286-102038238	PTPN13	0.0001
CNVR281	chr21:4686838-4912227	LRRK1	0.0001
CNVR281	chr21:4686838-4912227	ALDH1A3	0.0001
CNVR205	chr8:52814579-52989443	FOXB2	0.0001
CNVR444	chr3:104795722-105040206	FDPS	0.0001
CNVR444	chr3:104795722-105040206	RUSC1-AS1	0.0001
CNVR444	chr3:104795722-105040206	RUSC1	0.0001
CNVR444	chr3:104795722-105040206	ASH1L	0.0001
CNVR444	chr3:104795722-105040206	DAP3	0.0001
CNVR448	chr1:117080432-117305709	SERP1	0.0001
CNVR448	chr1:117080432-117305709	TSC22D2	0.0001
CNVR450	chr4:41373002-41543705	GLI3	0.0001
CNVR447	chr1:65312552-65486429	STXBP5L	0.0001
CNVR448	chr1:117080432-117305709	EIF2A	0.0001
CNVR318	chr17:42036353-42203324	SCLT1	0.0001
CNVR217	chr4:4944393-5284323	CCT8L2	0.0001
CNVR217	chr4:4944393-5284323	KMT2C	0.0001

CNVR214	chr19:50562778-51053565	BAIAP2	0.0000	
CNVR214	chr19:50562778-51053565	CHMP6	0.0000	
CNVR214	chr19:50562778-51053565	BAHCC1	0.0000	
CNVR214	chr19:50562778-51053565	SLC38A10	0.0000	
CNVR214	chr19:50562778-51053565	NDUFAF8	0.0000	
CNVR214	chr19:50562778-51053565	TEPSIN	0.0000	
CNVR214	chr19:50562778-51053565	AATK	0.0000	
CNVR214	chr19:50562778-51053565	RPTOR	0.0000	
CNVR214	chr19:50562778-51053565	FSCN2	0.0000	
CNVR164	chr3:91572483-91671546	TRIM33	0.0000	
CNVR166	chr24:44428013-44670596	SETBP1	0.0000	
CNVR165	chr12:74843453-75000294	VWA8	0.0000	
CNVR165	chr12:74843453-75000294	RGCC	0.0000	
CNVR165	chr12:74843453-75000294	NAA16	0.0000	
CNVR136	chr18:46661188-46870162	LSR	0.0000	
CNVR136	chr18:46661188-46870162	FXYD3	0.0000	
CNVR136	chr18:46661188-46870162	LGI4	0.0000	
CNVR136	chr18:46661188-46870162	FXYD1	0.0000	
CNVR136	chr18:46661188-46870162	FXYD5	0.0000	
CNVR136	chr18:46661188-46870162	USF2	0.0000	
CNVR136	chr18:46661188-46870162	HAMP	0.0000	
CNVR136	chr18:46661188-46870162	MAG	0.0000	
CNVR136	chr18:46661188-46870162	CD22	0.0000	
CNVR136	chr18:46661188-46870162	FXYD7	0.0000	
CNVR145	chr17:74218-505483	SMARCB1	0.0000	
CNVR145	chr17:74218-505483	MMP11	0.0000	
CNVR145	chr17:74218-505483	CHCHD10	0.0000	
CNVR145	chr17:74218-505483	VPREB3	0.0000	
CNVR145	chr17:74218-505483	ZNF70	0.0000	
CNVR145	chr17:74218-505483	SLC2A11	0.0000	
CNVR145	chr17:74218-505483	DERL3	0.0000	
CNVR349	chr9:396876-500672	CD109	0.0000	
CNVR350	chr20:39628946-39783357	C1QTNF3	0.0000	
CNVR350	chr20:39628946-39783357	AMACR	0.0000	
CNVR350	chr20:39628946-39783357	SLC45A2	0.0000	Feather colour, sil chicken, h 000915
CNVR242	chr15:35838401-36088036	DNHD1	0.0000	
CNVR242	chr15:35838401-36088036	RRP8	0.0000	
CNVR242	chr15:35838401-36088036	ILK	0.0000	
CNVR242	chr15:35838401-36088036	TAF10	0.0000	
CNVR242	chr15:35838401-36088036	TPP1	0.0000	Neuronal ceroid liq dog 001472
CNVR242	chr15:35838401-36088036	DCHS1	0.0000	
CNVR242	chr15:35838401-36088036	MRPL17	0.0000	
CNVR168	chr15:5608842-5930468	SLC39A13	0.0000	
CNVR168	chr15:5608842-5930468	SPI1	0.0000	
CNVR168	chr15:5608842-5930468	MYBPC3	0.0000	Cardiomyopathy, f domestic c: 000515
CNVR168	chr15:5608842-5930468	MADD	0.0000	
CNVR168	chr15:5608842-5930468	NR1H3	0.0000	
CNVR168	chr15:5608842-5930468	ACP2	0.0000	

CNVR168	chr15:5608842-5930468	DDB2	0.0000	Ocular squamous (horse	000735
CNVR168	chr15:5608842-5930468	PACSIN3	0.0000		
CNVR168	chr15:5608842-5930468	ARFGAP2	0.0000		
CNVR168	chr15:5608842-5930468	PTPMT1	0.0000		
CNVR168	chr15:5608842-5930468	CELF1	0.0000		
CNVR168	chr15:5608842-5930468	RAPSN	0.0000		
CNVR168	chr15:5608842-5930468	PSMC3	0.0000		
CNVR194	chr27:26153207-26303880	FGL1	0.0000		
CNVR194	chr27:26153207-26303880	PCM1	0.0000		
CNVR169	chr6:77093393-78208186	ADGRL3	0.0000		
CNVR176	chr28:39127-296360	COG2	0.0000		
CNVR176	chr28:39127-296360	AGT	0.0000		
CNVR176	chr28:39127-296360	TFAM	0.0000		
CNVR176	chr28:39127-296360	ZNF239	0.0000		
CNVR176	chr28:39127-296360	ZNF485	0.0000		
CNVR176	chr28:39127-296360	ZNF32	0.0000		
CNVR146	chr10:2200269-2598321	FOXN3	0.0000		
CNVR312	chr7:70112141-70200667	TRIM52	0.0000		
CNVR313	chr9:29486082-29566469	SEC63	0.0000		
CNVR315	chr18:48814449-48943899	SIPA1L3	0.0000		
CNVR310	chr1:62470077-64114313	IGSF11	0.0000		
CNVR310	chr1:62470077-64114313	UPK1B	0.0000		
CNVR310	chr1:62470077-64114313	B4GALT4	0.0000		
CNVR310	chr1:62470077-64114313	ARHGAP31	0.0000		
CNVR310	chr1:62470077-64114313	TMEM39A	0.0000		
CNVR310	chr1:62470077-64114313	POGLUT1	0.0000		
CNVR310	chr1:62470077-64114313	TIMMDC1	0.0000		
CNVR310	chr1:62470077-64114313	CD80	0.0000		
CNVR310	chr1:62470077-64114313	ADPRH	0.0000		
CNVR310	chr1:62470077-64114313	PLA1A	0.0000		
CNVR310	chr1:62470077-64114313	POPDC2	0.0000		
CNVR315	chr18:48814449-48943899	DPF1	0.0000		
CNVR255	chr18:8706364-8798129	CDYL2	0.0000		
CNVR256	chr19:235092-741103	CA10	0.0000		
CNVR343	chr18:2529845-2712383	VSTM2B	0.0000		
CNVR343	chr18:2529845-2712383	VAC14	0.0000		
CNVR97	chr16:18319045-18428267	USH2A	0.0000		
CNVR386	chr19:55704333-55772253	FADS6	0.0000		
CNVR386	chr19:55704333-55772253	FDXR	0.0000		
CNVR385	chr10:14701696-14840022	ZDHHC22	0.0000		
CNVR230	chr27:17039708-17141426	NRG1	0.0000		
CNVR386	chr19:55704333-55772253	GRIN2C	0.0000		
CNVR386	chr19:55704333-55772253	OTOP2	0.0000		
CNVR386	chr19:55704333-55772253	USH1G	0.0000		
CNVR384	chr3:42725005-42908776	IL23R	0.0000		
CNVR384	chr3:42725005-42908776	IL12RB2	0.0000		
CNVR265	chr4:51294352-51399600	HOXA9	0.0000		
CNVR265	chr4:51294352-51399600	HOXA4	0.0000		

CNVR265	chr4:51294352-51399600	HOXA5	0.0000			
CNVR265	chr4:51294352-51399600	HOXA6	0.0000			
CNVR265	chr4:51294352-51399600	HOXA10	0.0000			
CNVR265	chr4:51294352-51399600	HOXA11	0.0000			
CNVR265	chr4:51294352-51399600	HOXA13	0.0000			
CNVR266	chr5:84823978-85109945	SOX5	0.0000	Pea comb	chicken	000782
CNVR265	chr4:51294352-51399600	HOXA7	0.0000			
CNVR228	chr5:27802712-27884847	SCN8A	0.0000			
CNVR257	chr7:90025385-90322669	NFIC	0.0000			
CNVR257	chr7:90025385-90322669	SMIM24	0.0000			
CNVR257	chr7:90025385-90322669	DOHH	0.0000			
CNVR257	chr7:90025385-90322669	FZR1	0.0000			
CNVR257	chr7:90025385-90322669	MFS12	0.0000			
CNVR257	chr7:90025385-90322669	HMG20B	0.0000			
CNVR257	chr7:90025385-90322669	GIPC3	0.0000			
CNVR257	chr7:90025385-90322669	TBXA2R	0.0000			
CNVR257	chr7:90025385-90322669	CACTIN	0.0000			
CNVR257	chr7:90025385-90322669	PIP5K1C	0.0000			
CNVR257	chr7:90025385-90322669	TJP3	0.0000			
CNVR303	chr7:3252633-3369561	FBXL17	0.0000			
CNVR300	chr29:47226927-47555144	CPT1A	0.0000			
CNVR300	chr29:47226927-47555144	MRPL21	0.0000			
CNVR300	chr29:47226927-47555144	IGHMBP2	0.0000			
CNVR299	chr18:65210864-65486835	ZNF71	0.0000			
CNVR299	chr18:65210864-65486835	ZNF470	0.0000			
CNVR299	chr18:65210864-65486835	ZNF835	0.0000			
CNVR299	chr18:65210864-65486835	ZIM2	0.0000			
CNVR300	chr29:47226927-47555144	MRGPRF	0.0000			
CNVR300	chr29:47226927-47555144	TPCN2	0.0000			
CNVR299	chr18:65210864-65486835	ZNF582	0.0000			
CNVR299	chr18:65210864-65486835	SMIM17	0.0000			
CNVR247	chr14:25153465-25341324	ANGPT1	0.0000			
CNVR258	chr5:27333941-27712849	ACVRL1	0.0000			
CNVR258	chr5:27333941-27712849	ANKRD33	0.0000			
CNVR259	chr5:115164525-115600990	GTSE1	0.0000			
CNVR259	chr5:115164525-115600990	TRMU	0.0000			
CNVR259	chr5:115164525-115600990	CELSR1	0.0000			
CNVR258	chr5:27333941-27712849	KRT7	0.0000			
CNVR258	chr5:27333941-27712849	KRT80	0.0000			
CNVR258	chr5:27333941-27712849	NR4A1	0.0000			
CNVR258	chr5:27333941-27712849	GRASP	0.0000			
CNVR259	chr5:115164525-115600990	WNT7B	0.0000			
CNVR259	chr5:115164525-115600990	PPARA	0.0000			
CNVR259	chr5:115164525-115600990	CDPF1	0.0000			
CNVR259	chr5:115164525-115600990	TTC38	0.0000			
CNVR285	chr24:9494224-9722054	DSEL	0.0000			
CNVR284	chr17:38453012-38660495	FAT4	0.0000			
CNVR154	chr12:12830122-12972454	HS6ST3	0.0000			

CNVR464	chr14:74744003-74857837	ZFAT	0.0000		
CNVR465	chr27:20037103-20121377	TNKS	0.0000		
CNVR463	chr9:32386763-33420904	HACE1	0.0000		
CNVR416	chr14:62097501-62360121	SNAI2	0.0000		
CNVR416	chr14:62097501-62360121	EFCAB1	0.0000		
CNVR414	chr3:119822951-119954357	TBX19	0.0000		
CNVR415	chr7:3581367-4029290	FBXL17	0.0000		
CNVR415	chr7:3581367-4029290	EFNA5	0.0000		
CNVR346	chr8:106064518-107517395	ASTN2	0.0000		
CNVR346	chr8:106064518-107517395	TLR4	0.0000		
CNVR347	chr13:78318677-78381686	BCAS4	0.0000		
CNVR347	chr13:78318677-78381686	ADNP	0.0000		
CNVR347	chr13:78318677-78381686	DPM1	0.0000		
CNVR248	chr5:117088390-117521581	FAM19A5	0.0000		
CNVR466	chr13:24195550-24309944	KIAA1217	0.0000		
CNVR469	chr25:10390946-10683032	SNX29	0.0000		
CNVR470	chr26:38650363-38895843	ANKRD1	0.0000		
CNVR470	chr26:38650363-38895843	RPP30	0.0000		
CNVR470	chr26:38650363-38895843	HTR7	0.0000		
CNVR469	chr25:10390946-10683032	RSL1D1	0.0000		
CNVR469	chr25:10390946-10683032	GSPT1	0.0000		
CNVR469	chr25:10390946-10683032	TNFRSF17	0.0000		
CNVR321	chr11:45481199-45558959	NCK2	0.0000		
CNVR322	chr19:30448531-30753332	MAP2K4	0.0000		
CNVR320	chr7:104253379-104360706	CRTC1	0.0000		
CNVR320	chr7:104253379-104360706	COMP	0.0000		
CNVR345	chr23:2071807-2490261	RREB1	0.0000		
CNVR345	chr23:2071807-2490261	SSR1	0.0000		
CNVR345	chr23:2071807-2490261	CAGE1	0.0000		
CNVR345	chr23:2071807-2490261	RIOK1	0.0000		
CNVR237	chr10:98022960-98449048	KCNN2	0.0000		
CNVR239	chr18:8987420-9126400	CMC2	0.0000		
CNVR239	chr18:8987420-9126400	CENPN	0.0000	Male body size/coi:0	001890
CNVR239	chr18:8987420-9126400	ATMIN	0.0000		
CNVR239	chr18:8987420-9126400	GCSH	0.0000		
CNVR239	chr18:8987420-9126400	PKD1L2	0.0000		
CNVR243	chr27:7799490-8104972	INTS10	0.0000		
CNVR243	chr27:7799490-8104972	HGSNAT	0.0000		
CNVR243	chr27:7799490-8104972	POMK	0.0000		
CNVR243	chr27:7799490-8104972	FNTA	0.0000		
CNVR243	chr27:7799490-8104972	HOOK3	0.0000		
CNVR243	chr27:7799490-8104972	RNF170	0.0000		
CNVR243	chr27:7799490-8104972	THAP1	0.0000		
CNVR243	chr27:7799490-8104972	CHRNA6	0.0000		
CNVR233	chr22:40272340-40680180	FHIT	0.0000		
CNVR324	chr2:1092751-1252561	ACTL8	0.0000		
CNVR473	chr1:145490260-145685578	PCBP3	0.0000		
CNVR473	chr1:145490260-145685578	COL6A1	0.0000	Muscular dystroph dog	001967

CNVR477	chr13:46473134-46564147	PRND	0.0000
CNVR477	chr13:46473134-46564147	RASSF2	0.0000
CNVR472	chr1:51773599-51885520	CCDC54	0.0000
CNVR474	chr7:106110228-106197569	OBSCN	0.0000
CNVR474	chr7:106110228-106197569	TRIM11	0.0000
CNVR474	chr7:106110228-106197569	TRIM17	0.0000
CNVR478	chr18:15731228-16041888	ANKRD11	0.0000
CNVR478	chr18:15731228-16041888	SPG7	0.0000
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CNVR478	chr18:15731228-16041888	DPEP1	0.0000
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CNVR478	chr18:15731228-16041888	FANCA	0.0000
CNVR475	chr12:60430663-60468859	NBEA	0.0000
CNVR471	chr1:2098171-2158790	HUNK	0.0000
CNVR250	chr10:89474226-89635086	TXNDC16	0.0000
CNVR409	chr25:39448969-39826136	FBXL18	0.0000
CNVR409	chr25:39448969-39826136	TNRC18	0.0000
CNVR406	chr21:57123881-57189534	ITPK1	0.0000
CNVR404	chr17:1656773-1789018	OSBP2	0.0000
CNVR398	chr4:1133055-1438909	DNAJB6	0.0000
CNVR398	chr4:1133055-1438909	UBE3C	0.0000
CNVR404	chr17:1656773-1789018	DUSP18	0.0000
CNVR404	chr17:1656773-1789018	SLC35E4	0.0000
CNVR404	chr17:1656773-1789018	TCN2	0.0000
CNVR410	chr28:1291282-1906009	ZNF22	0.0000
CNVR410	chr28:1291282-1906009	ALOX5	0.0000
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CNVR404	chr17:1656773-1789018	PES1	0.0000
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CNVR405	chr19:23467961-23660587	RAP1GAP2	0.0000
CNVR407	chr23:41957169-42101312	LRRC1	0.0000
CNVR399	chr9:84026367-84168050	MAP3K4	0.0000
CNVR399	chr9:84026367-84168050	AGPAT4	0.0000
CNVR397	chr2:2669806-2791630	CAPZB	0.0000
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CNVR409	chr25:39448969-39826136	RNF216	0.0000
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CNVR262	chr27:38760409-39014362	AGPAT5	0.0000
CNVR262	chr27:38760409-39014362	MCPH1	0.0000
CNVR262	chr27:38760409-39014362	ANGPT2	0.0000
CNVR387	chr8:35663210-37174118	PTPRD	0.0000
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CNVR235	chr17:64068530-64323042	SH3D19	0.0000
CNVR234	chr9:20737498-21566008	TRAPPC3L	0.0000
CNVR234	chr9:20737498-21566008	FAM26D	0.0000
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CNVR381	chr19:55170877-55248676	MYO15B	0.0000
CNVR381	chr19:55170877-55248676	LLGL2	0.0000
CNVR377	chr1:17210656-17415477	TMPRSS15	0.0000
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CNVR381	chr19:55170877-55248676	TSEN54	0.0000
CNVR309	chr14:23966505-24313452	OXR1	0.0000
CNVR307	chr3:28933652-29229387	FAM151A	0.0000
CNVR307	chr3:28933652-29229387	MROH7	0.0000
CNVR307	chr3:28933652-29229387	SSBP3	0.0000
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CNVR293	chr6:111173170-111320579	BST1	0.0000
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CNVR297	chr29:40885662-40988733	INCENP	0.0000
CNVR296	chr16:34261365-34856843	RGS7	0.0000
CNVR296	chr16:34261365-34856843	DPT	0.0000
CNVR304	chr1:86399837-86897861	PEX5L	0.0000
CNVR391	chr3:91757813-92185077	BCAS2	0.0000
CNVR391	chr3:91757813-92185077	TRIM33	0.0000
CNVR391	chr3:91757813-92185077	DENND2C	0.0000
CNVR391	chr3:91757813-92185077	AMPD1	0.0000
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CNVR391	chr3:91757813-92185077	CSDE1	0.0000
CNVR391	chr3:91757813-92185077	SIKE1	0.0000
CNVR391	chr3:91757813-92185077	SYCP1	0.0000
CNVR395	chr13:18059828-18184118	PARD3	0.0000
CNVR389	chr2:77689797-77936509	NXPH2	0.0000
CNVR245	chr16:28745323-28806039	CDC42BPA	0.0000

CNVR290	chr19:46093124-46359942	EFCAB13	0.0000
CNVR288	chr10:19055481-19292195	RGS6	0.0000
CNVR361	chr8:44145214-44275969	PGM5	0.0000
CNVR369	chr29:7961794-8204164	TMEM135	0.0000
CNVR369	chr29:7961794-8204164	FZD4	0.0000
CNVR369	chr29:7961794-8204164	PRSS23	0.0000
CNVR363	chr13:22309944-22485237	DNAJC1	0.0000
CNVR362	chr11:81442804-81554962	FAM49A	0.0000
CNVR353	chr2:1758747-2042704	IGSF21	0.0000
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CNVR356	chr4:18303133-18647771	AKR1D1	0.0000
CNVR364	chr18:31006944-31313904	CDH8	0.0000
CNVR366	chr20:17556315-17994385	ZSWIM6	0.0000
CNVR359	chr5:106344987-106417783	B4GALNT3	0.0000
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CNVR365	chr19:12506519-12732195	PIGW	0.0000
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CNVR363	chr13:22309944-22485237	MLLT10	0.0000
CNVR354	chr2:15535722-15579358	EIF4E2	0.0000
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CNVR365	chr19:12506519-12732195	MYO19	0.0000
CNVR355	chr2:71957883-72052161	NCKAP5	0.0000
CNVR419	chr6:4703293-4770730	NDNF	0.0000
CNVR418	chr3:109732251-109851137	APCS	0.0000
CNVR426	chr28:42426843-43007895	PGBD5	0.0000
CNVR426	chr28:42426843-43007895	GALNT2	0.0000
CNVR424	chr18:54743018-54889434	PNMAL2	0.0000
CNVR421	chr9:50121735-50459034	HTR1E	0.0000
CNVR420	chr7:15423801-15497158	GLRX	0.0000
CNVR420	chr7:15423801-15497158	RHOBTB3	0.0000
CNVR422	chr13:2044451-2190267	PLCB4	0.0000
CNVR423	chr18:9453551-9690202	CMIP	0.0000
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CNVR424	chr18:54743018-54889434	CALM3	0.0000
CNVR424	chr18:54743018-54889434	PTGIR	0.0000
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CNVR351	chr2:106396405-106982191	SCN7A	0.0000
CNVR326	chr1:151473735-151889069	COL6A6	0.0000
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CNVR329	chr1:60778734-60981901	LSAMP	0.0000
CNVR331	chr18:19464739-19597811	CBLN1	0.0000
CNVR489	chr11:100809850-101015235	NUP214	0.0000
CNVR489	chr11:100809850-101015235	FAM78A	0.0000
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CNVR492	chr22:23261616-23357142	CNTN4	0.0000
CNVR483	chr1:116439841-116586239	MED12L	0.0000
CNVR483	chr1:116439841-116586239	P2RY14	0.0000
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CNVR486	chr3:62798489-63065701	ZNHIT6	0.0000
CNVR486	chr3:62798489-63065701	COL24A1	0.0000
CNVR429	chr8:4995390-5137151	GALNTL6	0.0000
CNVR438	chr21:14633-668305	MKRN3	0.0000
CNVR433	chr13:33158183-33268885	ZEB1	0.0000
CNVR437	chr19:14788994-14997280	CCT6B	0.0000
CNVR430	chr10:316360-560771	CTDSPL2	0.0000
CNVR430	chr10:316360-560771	CASC4	0.0000
CNVR427	chr2:35993258-36210898	ERBB4	0.0000
CNVR438	chr21:14633-668305	MAGEL2	0.0000
CNVR438	chr21:14633-668305	NDN	0.0000
CNVR439	chr22:50009204-50272048	CACNA2D2	0.0000
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CNVR439	chr22:50009204-50272048	RASSF1	0.0000
CNVR439	chr22:50009204-50272048	TUSC2	0.0000
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CNVR439	chr22:50009204-50272048	HYAL3	0.0000
CNVR439	chr22:50009204-50272048	IFRD2	0.0000
CNVR439	chr22:50009204-50272048	LSMEM2	0.0000
CNVR439	chr22:50009204-50272048	SEMA3B	0.0000
CNVR439	chr22:50009204-50272048	SLC38A3	0.0000
CNVR439	chr22:50009204-50272048	GNAT1	0.0000
CNVR439	chr22:50009204-50272048	SEMA3F	0.0000
CNVR439	chr22:50009204-50272048	NAT6	0.0000
CNVR518	chr21:16173546-16336056	AGBL1	0.0000
CNVR515	chr15:68508002-68596370	JRKL	0.0000
CNVR517	chr16:66515022-66662197	PLA2G4A	0.0000
CNVR524	chr26:11211500-11440790	PLPP4	0.0000
CNVR498	chr2:32998411-33072221	BARD1	0.0000
CNVR523	chr24:20260350-20444877	KIAA1328	0.0000
CNVR521	chr23:28418703-28691044	TNFRSF21	0.0000
CNVR510	chr12:62909764-62977761	UFM1	0.0000
CNVR503	chr6:37898813-38091505	NCAPG	0.0000
CNVR497	chr1:91434395-91550506	NAALADL2	0.0000

CNVR519	chr22:25265396-25939055	CHL1	0.0000
CNVR499	chr2:63569208-63676418	GLI2	0.0000
CNVR507	chr10:88946391-89011933	IGDCC3	0.0000
CNVR503	chr6:37898813-38091505	LCORL	0.0000
CNVR516	chr16:28987486-29263185	AHCTF1	0.0000
CNVR516	chr16:28987486-29263185	SCCPDH	0.0000
CNVR516	chr16:28987486-29263185	CNST	0.0000
CNVR511	chr13:16583614-16678458	CAMK1D	0.0000
CNVR512	chr14:8630351-8780447	TMEM64	0.0000

Comment:

CHR: chromosome

START: Start coordinate

END: End coordinate

Gene: Gene name overlapped with this CNVR

VAR: Variance

CNV count: CNV count within this CNVR for each group

SEA: Southeastern Africa group

NWA: Northwestern Africa group

MAD: Madagascar group

WAS: Western Asia group

EME: Eastern Mediterranean group

ANE: Alpine & Northern Europe group

Color filled: CNV overlapped genes with VAR > 0.01