

Clone ID	Dog chromosome location	# scored	% loss	% gain	Human chromosome location	Gene Symbol	Gene Description	Human cytogenetic assignment (Entrez)
CH82-122B18	chr1:6192488-6223577	37	0.0%	24.3%	chr18:74271000-74317929			
CH82-307A01	chr1:17893120-18105862	36	0.0%	22.2%	chr18:59339105-59594297			
CH82-335H19	chr1:21035971-21232172	37	0.0%	29.7%	chr18:55393674-55640478			
CH82-191M10	chr1:52746169-52970660	37	0.0%	21.6%	chr6:161537941-161807197			
CH82-332G05	chr1:58717706-58950687	37	8.1%	24.3%	chr6:168585112-168949847			
CH82-283P08	chr1:110563613-110764791	37	2.7%	21.6%	chr19:48868336-49138020			
CH82-197I06	chr1:111332966-111513895	36	0.0%	22.2%	chr19:47862268-48084269			
CH82-208M24	chr1:114912588-115137591	37	2.7%	21.6%	chr19:42611876-42887052	C1C	capicua homolog (Drosophila)	19q13.2
CH82-213F12	chr1:115838920-116019438	36	2.8%	25.0%	chr19:41159171-41406062			
CH82-326P06	chr1:116682793-116868312	37	0.0%	21.6%	chr19:39734013-39951625			
CH82-191O17	chr1:121518301-121710524	37	2.7%	21.6%	chr19:33848302-34089081			
CH82-262C15	chr2:86668685-86845909	37	2.7%	37.8%	chr1:12517135-12722076			
CH82-349L24	chr2:87326057-87550438	36	8.3%	36.1%	chr1:11573472-11867777			
CH82-335M12	chr3:15867689-16066967	36	55.6%	5.6%	chr5:95812200-96050078			
CH82-335E13	chr3:24003458-24189037	36	2.8%	22.2%	chr5:86408994-86630347			
CH82-126L20	chr3:41442419-41673900	36	61.1%	0.0%	chr15:29527544-29812637			
CH82-332A09	chr3:94312126-94524869	37	10.8%	27.0%	chr4:735501-1054514			
CH82-122G14	chr4:56773465-56974192	37	0.0%	32.4%	chr5:155604370-155830692			
CH82-335J12	chr4:9104162-91270051	35	25.7%	0.0%	chr5:14988134-15230669			
CH82-122E24	chr5:30408016-30612845	37	24.3%	0.0%	chr11:104298356-104516456			
CH82-122N12	chr5:51970208-52167865	37	37.8%	0.0%	chr1-61199715-61429342			
CH82-122N24	chr5:60917402-61150345	37	13.5%	21.6%	chr1-3239231-3535112	PRDM16	PR domain containing 16	1p36.23-p33
CH82-328O11	chr6:7679518-7864640	37	5.4%	21.6%	chr7:67652010-67932596			
CH82-330I20	chr6:8929418-9017250	37	0.0%	27.0%	chr7:73838836-74089528			
CH82-338G09	chr6:10769537-10958045	37	2.7%	27.0%	chr7-10176572-103040019			
CH82-154P02	chr6:14823657-15027075	36	0.0%	27.8%	chr7:6521039-6707105			
CH82-313K08	chr6:16397660-16602041	37	0.0%	24.3%	chr7:3749332-3979280			
CH82-456M11	chr6:17402036-17587833	37	0.0%	21.6%	nd			
CH82-311I23	chr6:18737657-18940686	37	0.0%	45.9%	chr7:991387-1198121			
CH82-335N18	chr6:21383336-21577538	37	0.0%	21.6%	nd			
CH82-287E10	chr6:22193333-22395819	37	0.0%	24.3%	chr16:27226547-27469020	IL21R	interleukin 21 receptor	16p11
CH82-122K24	chr6:22926270-23121993	37	0.0%	24.3%	chr16:26282722-26533560			
CH82-122C24	chr6:27299071-27480266	37	0.0%	37.8%	chr16:20919993-21162553			
CH82-323L03	chr6:27951270-28116661	37	0.0%	21.6%	chr16:20248149-20440744			
CH82-323H01	chr6:28940939-29133680	37	0.0%	21.6%	chr16:19079114-19327301			
CH82-186D15	chr6:32688291-32863435	37	0.0%	24.3%	chr16:13293967-13519694			
CH82-332F17	chr6:41425922-41630205	37	5.4%	29.7%	chr16:2486665-2774746			
CH82-390I08	chr6:41842424-42061613	37	8.1%	43.2%	chr16:1945214-2210305	TSC2	tuberous sclerosis 2	16p13.3
CH82-62F09	chr6:42226004-42426757	37	8.1%	32.4%	chr16:1449359-1749740			
CH82-289M05	chr6:43355695-43545693	37	5.4%	21.6%	chr16:75856-232132			
CH82-323B24	chr6:46340298-46530437	36	0.0%	22.2%	chr1-108685587-109070133			
CH82-126L23	chr6:47416907-47581966	37	0.0%	35.1%	chr1-107553676-107732705			
CH82-326C24	chr6:49543064-49757195	36	13.9%	25.0%	chr1-104621450-104870774			
CH82-283F10	chr6:54314857-54485998	36	0.0%	22.2%	chr1-98724076-98908760			
CH82-325H19	chr6:80194236-80387266	37	18.9%	27.0%	chr1-68267044-68615186			
CH82-323G10	chr7:4484908-4675880	37	8.1%	35.1%	nd			
CH82-313I01	chr7:16377091-16546973	37	0.0%	35.1%	chr1:179816448-179993716			
CH82-122C02	chr7:28690031-28879759	37	0.0%	27.0%	chr1:173148399-173394285			
CH82-133B12	chr7:45230690-45395584	37	5.4%	24.3%	chr1:155047433-155276375	MUC1	mucin 1, cell surface associated	1q21
CH82-335B12	chr7:47644466-47863226	37	0.0%	43.2%	chr18:43975514-44231745			
CH82-335G06	chr8:13973154-14168780	34	0.0%	20.6%	chr14:32296992-32518674			
CH82-122L09	chr8:30408877-30630700	36	0.0%	30.6%	chr14:51512797-51799927			
CH82-126L07	chr8:49781466-49849250	37	0.0%	37.8%	chr14:73873851-73953989			
CH82-182L07	chr8:75349341-75550584	35	8.6%	37.1%	chr14:105212288-105550498	AKT1	v-akt murine thymoma viral oncogene homolog 1	14q32.32 14q32.32
CH82-7K11	chr9:3283814-3479840	37	8.1%	40.5%	chr17:79678389-79989108	ASPSCR1	alveolar soft part sarcoma chromosome region, candidate 1	17q25.3
CH82-305C19	chr9:4647587-4837657	36	8.3%	38.9%	chr17:77765395-78007897			
CH82-506H07	chr9:5875654-6043431	37	5.4%	27.0%	chr17:76073413-76330725			
CH82-326I12	chr9:6551183-6752927	36	5.6%	33.3%	chr17:75112808-75409339			
CH82-287E02	chr9:7511356-7719383	37	0.0%	35.1%	chr17:73881867-74136891			
CH82-188A08	chr9:8487097-8712792	37	2.7%	32.4%	chr17:72691617-72964964			
CH82-506O04	chr9:9592075-9793581	37	8.1%	27.0%	chr17:71426810-71660605			
CH82-469J23	chr9:14490732-14693841	37	2.7%	24.3%	chr17:61389554-61633350			
CH82-191M02	chr9:16767906-16953199	37	0.0%	21.6%	chr17:64557497-64806159			
CH82-287A03	chr9:17943769-18148132	37	2.7%	35.1%	chr17:62949644-63218358			
CH82-340P02	chr9:25364582-25592187	37	0.0%	21.6%	chr17:38503397-38784192	RARA	retinoic acid receptor, alpha	17q21
CH82-501G10	chr9:26035190-26215342	36	2.8%	25.0%	chr17:37737064-37943153	ERBB2	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	17q11.2-q12 17q21.1
CH82-189K10	chr9:27749024-27954726	37	0.0%	21.6%	chr17:46223196-46433748			
CH82-326J12	chr9:28774763-28971614	37	0.0%	21.6%	chr17:47393482-47623977			
CH82-313C13	chr9:29546702-29749842	37	2.7%	24.3%	chr17:48299781-48575907			
CH82-135P18	chr9:32248862-32438730	37	0.0%	24.3%	chr17:51440250-51713293			
CH82-323N11	chr9:35556533-35749937	37	2.7%	24.3%	chr17:55572263-55788510	MSI2	musashi homolog 2 (Drosophila)	17q22
CH82-323B01	chr9:39739988-39952646	37	0.0%	27.0%	chr17:34889408-35137580			
CH82-191I24	chr9:41869271-42085377	36	5.6%	25.0%	chr17:32864405-33108160			
CH82-122N06	chr9:45828531-46020441	30	10.0%	20.0%	chr17:26465116-26688109			
CH82-195P07	chr9:47028803-47222063	36	2.8%	25.0%	chr17:27928759-28162298			
CH82-438O5	chr9:48965695-49169481	37	2.7%	35.1%	chr17:1374865-1607726			
CH82-191C16	chr9:51728581-51921514	36	11.1%	38.9%	chr9:139949582-140188358			

Clone ID	Dog chromosome location	# scored	% loss	% gain	Human chromosome location	Gene Symbol	Gene Description	Human cytogenetic assignment (Entrez)
CH82-328B07	chr9:55069941-55236256	37	10.8%	27.0%	chr9:135238338-135441430			
CH82-126H22	chr9:59165710-59371881	37	51.4%	5.4%	chr9:130038258-130308910			
CH82-323C23	chr9:60409246-60620851	37	2.7%	27.0%	chr9:128652708-128896784			
CH82-188C04	chr9:62857440-62887128	37	0.0%	32.4%	chr9:126026593-126058330			
CH82-506N23	chr9:64078411-64147422	36	5.6%	27.8%	chr9:124466914-124539827			
CH82-398K12	chr10:4766719-4948859	37	2.7%	21.6%	chr12:58110640-58311292	CDK4	cyclin-dependent kinase 4	12q14
CH82-122C08	chr10:23364115-23625893	37	0.0%	21.6%	chr22:45908870-46198693			
CH82-122D20	chr10:30979474-31151498	36	0.0%	30.6%	chr22:36725725-36903689	MYH9	myosin, heavy chain 9, non-muscle	22q13.1
CH82-335K09	chr10:44476493-44645214	37	32.4%	0.0%	chr2:102013119-102212353			
CH82-330P10	chr10:72197473-72397373	36	5.6%	25.0%	chr2:70859179-71135120			
CH82-186B19	chr11:8928401-9145528	37	24.3%	5.4%	chr5:115562529-115805207			
CH82-122L07	chr11:9362920-9542518	37	24.3%	5.4%	chr5:116030581-116235057			
CH82-283K03	chr11:10542126-10752622	37	24.3%	0.0%	chr5:117307578-117525785			
CH82-126B05	chr11:11844896-12035590	37	24.3%	0.0%	nd			
CH82-328A15	chr11:12876081-13075538	37	21.6%	0.0%	chr5:119836983-120081168			
CH82-326I09	chr11:13788787-13969984	35	22.9%	0.0%	nd			
CH82-326L11	chr11:15894670-16095447	37	27.0%	2.7%	chr5:122366512-122560138			
CH82-323I05	chr11:16821154-17005420	37	29.7%	0.0%	chr5:123368897-123608330			
CH82-283M14	chr11:17730891-17930078	37	29.7%	0.0%	chr5:124465395-124713824			
CH82-307C07	chr11:18793287-18972736	37	29.7%	2.7%	chr5:125831627-126070130			
CH82-62D11	chr11:19493280-19727771	37	29.7%	0.0%	chr5:126708683-126964715			
CH82-326L05	chr11:20496756-20706739	37	32.4%	0.0%	chr5:127808121-128047915			
CH82-330A20	chr11:24341825-24533759	37	21.6%	2.7%	chr5:132409181-132598887			
CH82-465G11	chr11:26672686-26878843	36	25.0%	2.8%	chr5:134976198-135285012			
CH82-186P04	chr11:27687472-27890432	37	24.3%	0.0%	chr5:136241666-136435973			
CH82-126B13	chr11:28542375-2875793	37	24.3%	0.0%	chr5:137155789-137413182			
CH82-188H11	chr11:29760129-29985064	37	24.3%	0.0%	nd			
CH82-474K18	chr11:31861013-32032136	35	25.7%	0.0%	chr9:7987192-8228156			
CH82-62G24	chr11:33181307-33392882	37	27.0%	0.0%	chr9:9449146-9663817			
CH82-326P11	chr11:34247809-34423350	37	24.3%	0.0%	chr9:10562093-10757698			
CH82-126A11	chr11:36523749-36739999	35	28.6%	0.0%	chr9:12876195-13130779			
CH82-182A16	chr11:37999014-38200895	37	24.3%	0.0%	chr9:14487681-14734319			
CH82-106N16	chr11:42425389-42612516	37	27.0%	2.7%	chr9:19641087-19912562			
CH82-325C12	chr11:44256300-44428212	36	55.6%	0.0%	chr9:21971498-22175227			
CH82-328B22	chr11:44781889-44967263	35	54.3%	2.9%	chr9:22685716-22964798			
CH82-182K13	chr11:46963358-47162842	37	45.9%	0.0%	chr9:25449357-25692162			
CH82-188A22	chr11:47987266-48173381	37	27.0%	0.0%	chr9:26695197-26928914			
CH82-307I24	chr11:49854198-50041767	37	35.1%	0.0%	chr9:28867679-29007017			
CH82-330P17	chr11:52968262-53138987	37	32.4%	0.0%	chr9:32726585-32970532			
CH82-283A15	chr11:53688814-53860277	37	29.7%	0.0%	chr9:33901142-34070014			
CH82-92B24	chr11:53904555-54114715	37	32.4%	0.0%	chr9:34123854-34386805			
CH82-476B13	chr11:53941124-54164296	37	32.4%	0.0%	chr9:34170175-34447457			
CH82-79I21	chr11:54029173-54260358	35	31.4%	0.0%	chr9:34279191-34554509			
CH82-330N18	chr11:55104897-55322407	37	27.0%	0.0%	chr9:35491138-35763995			
CH82-474I11	chr11:56633361-56824997	37	29.7%	0.0%	chr9:37274866-37489328			
CH82-388J08	chr11:57981148-58178226	37	29.7%	0.0%	chr9:100407817-100620444	XPA	xeroderma pigmentosum, complementation group A	9q22.3
CH82-326D17	chr11:59214619-59407273	37	35.1%	0.0%	chr9:101883496-102109561			
CH82-182N23	chr11:60273100-60424472	37	32.4%	0.0%	chr9:103101979-103260787			
CH82-326A13	chr11:61849471-62044977	34	23.5%	0.0%	chr9:105043328-105347967			
CH82-323B19	chr11:62701940-62877297	37	35.1%	0.0%	chr9:106356737-106560456			
CH82-188F09	chr11:64316141-64518503	37	35.1%	2.7%	chr9:108175680-108433951	TAL2	T-cell acute lymphocytic leukemia 2	9q32
CH82-106A14	chr11:65115892-65304070	37	32.4%	2.7%	chr9:109221085-109476991			
CH82-283N18	chr11:66075523-66263523	37	35.1%	2.7%	chr9:110459184-110716227			
CH82-283G14	chr11:67213701-67408065	36	33.3%	2.8%	chr9:111799260-112018268			
CH82-122K09	chr11:68337530-68496985	37	32.4%	5.4%	chr9:113126851-113312950			
CH82-191N23	chr11:70086781-70269451	37	29.7%	2.7%	chr9:115361670-115573042			
CH82-326O21	chr11:70854059-71039141	37	35.1%	5.4%	chr9:116252635-116460224			
CH82-323L01	chr11:73128843-73335733	37	35.1%	5.4%	chr9:119038458-119256051			
CH82-195D13	chr11:74425345-74603505	37	35.1%	2.7%	chr9:120503594-120695547			
CH82-307H04	chr11:75956107-76142514	37	37.8%	5.4%	chr9:122290137-122507523			
CH82-325L14	chr11:76880486-77092536	35	37.1%	2.9%	chr9:123558300-123824031			
CH82-313C15	chr12:39896138-40108358	37	2.7%	27.0%	chr6:75960778-76188621			
CH82-323K10	chr13:3427228-3630015	36	0.0%	30.6%	chr8:99203666-99447163			
CH82-199F19	chr13:4523779-4728444	37	0.0%	32.4%	chr8:100534452-100768630			
CH82-328M24	chr13:7158524-7367083	37	0.0%	29.7%	chr8:103566162-103817007			
CH82-328P06	chr13:8630921-8818498	37	0.0%	27.0%	chr8:105416146-105665885			
CH82-326G03	chr13:9888412-10077025	37	0.0%	27.0%	chr8:106907474-107185416			
CH82-326M15	chr13:12747600-12941644	37	0.0%	24.3%	chr8:110166985-110354298			
CH82-283A06	chr13:16014587-16184882	36	0.0%	22.2%	chr8:113851510-114033215			
CH82-287A17	chr13:18430332-18610009	37	0.0%	29.7%	chr8:116848247-117025497			
CH82-330I03	chr13:20482982-20685366	36	0.0%	27.8%	chr8:119116441-119350685	EXT1	exostoses (multiple) 1	8q24.11-q24.13
CH82-262D16	chr13:21538859-21555255	32	6.3%	37.5%	chr8:120426594-120442920			
CH82-323G16	chr13:22807364-22989452	37	0.0%	27.0%	chr8:121967753-122173892			
CH82-340A23	chr13:23951644-24146914	37	0.0%	29.7%	chr8:123389860-123653345			
CH82-287D11	chr13:25119119-25312498	37	0.0%	29.7%	chr8:124828505-125119679			
CH82-326P15	chr13:26621948-27112706	36	0.0%	30.6%	chr8:127102413-127363823			
CH82-335M01	chr13:28085281-28265714	37	0.0%	29.7%	chr8:128573757-128787688	MYC	v-myc myelocytomatosis viral oncogene homolog (avian)	8q24.21

Clone ID	Dog chromosome location	# scored	% loss	% gain	Human chromosome location	Gene Symbol	Gene Description	Human cytogenetic assignment (Entrez)
CH82-62F04	chr13:30722386-30994067	37	0.0%	29.7%	chr8:131815675-132071889			
CH82-328G19	chr13:31876659-32068644	36	0.0%	27.8%	chr8:133252226-133447059			
CH82-191A04	chr13:33701934-33908969	36	0.0%	33.3%	chr8:135508319-135768362			
CH82-326D14	chr13:34868895-35063636	37	2.7%	27.0%	chr8:137032607-137268902			
CH82-335A13	chr13:36345852-36533181	37	0.0%	27.0%	chr8:139004447-139272726			
CH82-197D03	chr13:37210802-37431366	37	0.0%	27.0%	chr8:140207207-140515208			
CH82-186J06	chr13:38344515-38552798	37	0.0%	29.7%	chr8:141669136-141928990			
CH82-474N05	chr13:39591321-39781628	36	13.9%	55.6%	chr8:143456099-143693729			
CH82-398P13	chr13:40762011-40939942	37	2.7%	43.2%	chr8:145523684-145710479			
CH82-323B16	chr13:41613250-41796345	37	5.4%	35.1%	chr4:41414665-41631385			
CH82-388P03	chr13:43328496-43501635	37	0.0%	24.3%	chr4:43567811-43833807			
CH82-335O03	chr13:44317860-44495975	37	27.0%	5.4%	chr4:44934837-45176721			
CH82-186J22	chr13:45483218-45670474	37	0.0%	24.3%	chr4:46477999-46722549			
CH82-126H01	chr13:48218868-48435957	37	0.0%	29.7%	chr4:53334505-53579734			
CH82-191B15	chr13:49339012-49547283	37	0.0%	29.7%	chr4:54706702-54937099			
CH82-524B22	chr13:49991362-50201827	37	0.0%	29.7%	chr4:55473043-55723285	CHIC2	cysteine-rich hydrophobic domain 2	4q11
CH82-186J08	chr13:50171622-50370090	35	0.0%	28.6%	chr4:55681327-55940616	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	4q11-q12
CH82-330E11	chr13:51352542-51547357	37	0.0%	29.7%	chr4:57035548-57256686			
CH82-328B19	chr13:53334697-53537896	37	0.0%	24.3%	chr4:59317732-59587167			
CH82-197F14	chr13:57193340-57220807	37	0.0%	21.6%	chr4:63869308-63902557			
CH82-43F05	chr13:59532871-59738541	34	0.0%	23.5%	chr4:66728642-66970038			
CH82-474I05	chr13:60719125-60914172	37	0.0%	32.4%	chr4:67967053-68242173			
CH82-323O12	chr13:61972683-62157466	35	0.0%	22.9%	chr4:70212051-70577710			
CH82-340G10	chr13:63490308-63673646	37	0.0%	29.7%	chr4:72305759-72523249			
CH82-186G02	chr13:64868824-65056532	37	7.7%	32.4%	chr4:73989160-74216896			
CH82-122Q04	chr14:28016658-28209743	37	5.4%	21.6%	chr7:9805474-10068600			
CH82-326A01	chr14:47262829-47446846	21	9.5%	28.6%	chr7:31855578-32059817			
CH82-335J05	chr14:62910983-63121070	37	0.0%	24.3%	chr7:121701575-122023670			
CH82-340O14	chr15:10643839-10844148	37	13.5%	21.6%	chr1:34438374-34705402			
CH82-335B14	chr15:50607472-50807713	37	27.0%	0.0%	chr4:150399554-150629180			
CH82-126K01	chr15:52464908-52691861	37	0.0%	27.0%	chr4:152417124-152660757			
CH82-186K08	chr16:4135123-4259796	37	10.8%	29.7%	chr7:45313227-45635342			
CH82-323C15	chr16:21873338-22060235	37	21.6%	5.4%	chr7:156008333-156262677			
CH82-326F18	chr16:35225394-35441742	34	20.6%	5.9%	chr8:31754547-31991994			
CH82-106B04	chr16:41329595-41393895	35	20.0%	2.9%	chr8:14925502-15001710			
CH82-330B21	chr16:59247831-59452262	37	21.6%	2.7%	chr8:4127551-4333996			
CH82-326D07	chr17:3201167-3398989	36	25.0%	25.0%	chr2:253915-574648			
CH82-283P14	chr17:4294064-4471442	36	22.2%	5.6%	chr2:2326832-2593817			
CH82-191F04	chr17:15316830-15460466	37	24.3%	0.0%	chr2:16881566-17111647			
CH82-283I16	chr17:16182339-16366149	37	24.3%	0.0%	chr2:17941094-18217316			
CH82-325K13	chr17:18335211-18548645	37	24.3%	0.0%	chr2:20550921-20808883			
CH82-307H01	chr17:20383332-20583261	37	27.0%	0.0%	chr2:22981692-23215059			
CH82-326G17	chr17:22039335-22258253	36	22.2%	0.0%	chr2:24919881-25185699	NCOA1	nuclear receptor coactivator 1	2p23
CH82-188J16	chr17:23478945-23689925	35	28.6%	8.6%	chr2:26655053-26890338			
CH82-313C01	chr17:24184767-24391514	37	24.3%	2.7%	chr2:27447250-27693557			
CH82-262P10	chr17:26344826-26568007	37	27.0%	0.0%	chr2:29659645-29908800	ALK	anaplastic lymphoma receptor tyrosine kinase	2p23
CH82-106F12	chr17:27847958-28027639	37	21.6%	0.0%	chr2:31366251-31593442			
CH82-122K20	chr17:28982145-29182179	37	24.3%	0.0%	chr2:32881557-33110541			
CH82-326C11	chr17:30440924-30645197	36	30.6%	0.0%	chr2:34748964-34984973			
CH82-186B17	chr17:32055736-32223347	37	24.3%	2.7%	chr2:36679662-36899330			
CH82-186I14	chr17:33672639-33854434	36	22.2%	0.0%	chr2:38701073-38904189			
CH82-191D18	chr17:34789107-34978584	37	24.3%	0.0%	chr2:39945500-40151332			
CH82-186H22	chr17:38024239-38197534	37	24.3%	0.0%	nd			
CH82-182O14	chr17:39591770-39757781	37	24.3%	0.0%	chr2:112838998-113055255			
CH82-328H24	chr17:41682805-41867802	37	21.6%	0.0%	chr2:86574709-86770264			
CH82-326I14	chr17:42396455-42564074	35	28.6%	2.9%	chr2:85805044-85928311			
CH82-29C12	chr18:3165579-3338536	35	8.6%	20.0%	chr7:48311415-48663846			
CH82-521K12	chr18:28514173-28761057	37	13.5%	21.6%	chr11:374100-713014	HRAS	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	11p15.5
CH82-262J20	chr18:55960626-56134909	36	30.6%	13.9%	chr11:63671171-63876238			
CH82-505N10	chr18:57840840-58040709	37	21.6%	5.4%	chr11:61169552-61412446			
CH82-62G21	chr19:18490969-18662730	37	2.7%	21.6%	chr4:125878721-126053075			
CH82-126B07	chr19:23048111-23209007	33	36.4%	9.1%	nd			
CH82-199B04	chr20:3144250-3336975	29	0.0%	24.1%	chr3:125725196-125857468			
CH82-330M07	chr20:3901610-4082900	37	0.0%	24.3%	chr3:126454224-126641673			
CH82-10D09	chr20:6200376-6400035	36	2.8%	30.6%	chr3:12926516-13106904			
CH82-332N14	chr20:7004220-72122600	36	2.8%	27.8%	chr3:13760935-14093772			
CH82-191P11	chr20:8162608-8353267	36	0.0%	27.8%	nd			
CH82-397A23	chr20:8833845-9009664	37	0.0%	27.0%	chr3:12596891-12788716	RAF1	v-raf-1 murine leukemia viral oncogene homolog 1	3p25
CH82-335E11	chr20:9093097-9273156	37	0.0%	24.3%	chr3:12325450-12527804	PPARG	peroxisome proliferator-activated receptor gamma	3p25
CH82-332F13	chr20:10314881-10478254	37	0.0%	27.0%	chr3:10941677-11124671			
CH82-126F23	chr20:11244176-11434550	37	0.0%	32.4%	chr3:9861444-10142042	FANCD2	Fanconi anemia, complementation group D2	3p26
CH82-307I05	chr20:12257327-12437631	36	0.0%	27.8%	chr3:8704136-8934115			
CH82-115I17	chr20:13618034-13850791	37	0.0%	29.7%	chr3:7135698-7369140			
CH82-189M06	chr20:15720120-15923621	35	0.0%	31.4%	chr3:4700884-4919211			
CH82-313Q05	chr20:17718174-17883871	37	2.7%	31.8%	chr3:2548857-2735803			
CH82-330N23	chr20:19799780-20008746	35	0.0%	28.6%	chr3:213207-440964			
CH82-313K09	chr20:20668164-20834697	37	0.0%	24.3%	chr3:74529235-74695752			

Clone ID	Dog chromosome location	# scored	% loss	% gain	Human chromosome location	Gene Symbol	Gene Description	Human cytogenetic assignment (Entrez)
CH82-186E23	chr20:21658276-21875966	37	0.0%	29.7%	chr3:73413681-73641325			
CH82-126D04	chr20:23029047-23208984	36	0.0%	33.3%	chr3:71880169-72098381			
CH82-308B21	chr20:23852137-24064129	36	0.0%	25.0%	chr3:70989901-71179922	FOXP1	forkhead box P1	
CH82-328G06	chr20:24442971-24611167	37	0.0%	21.6%	chr3:70297890-70516549			3p14.1
CH82-326E02	chr20:25919192-26123804	36	0.0%	27.8%	chr3:68599235-68824130			
CH82-326B04	chr20:26735251-26914950	37	0.0%	27.0%	chr3:67702149-67925406			
CH82-465J12	chr20:27883696-28077793	35	0.0%	31.4%	chr3:66381821-66599802			
CH82-43N06	chr20:30069827-30263576	36	0.0%	30.6%	chr3:63946970-64149074			
CH82-287P02	chr20:30879751-31085369	36	0.0%	27.8%	chr3:62993780-63251454			
CH82-326E08	chr20:32054574-32243103	37	0.0%	24.3%	chr3:61797258-61988092			
CH82-313B12	chr20:33015633-33203600	37	0.0%	21.6%	chr3:60683871-60891773			
CH82-330C22	chr20:34378206-34586424	37	0.0%	29.7%	chr3:59140056-59399519			
CH82-191A07	chr20:36521076-36681874	37	0.0%	29.7%	chr3:56694546-56870315			
CH82-283D08	chr20:37508675-37684858	37	0.0%	32.4%	chr3:55599537-55792885			
CH82-283O13	chr20:38803526-38998514	36	0.0%	27.8%	chr3:54069992-54289308			
CH82-320D03	chr20:40178327-40372988	36	2.8%	36.1%	chr3:52420229-52631580			
CH82-313B16	chr20:40862782-41039499	37	0.0%	29.7%	chr3:51620433-51846942			
CH82-287E13	chr20:41988099-42196399	37	2.7%	35.1%	chr3:50159395-50407287			
CH82-332L12	chr20:43028069-43253372	37	0.0%	27.0%	chr3:48922261-49207828			
CH82-199P08	chr20:44212695-44392773	37	0.0%	32.4%	chr3:47562257-47764195			
CH82-188I04	chr20:47981654-48139506	37	2.7%	24.3%	chr19:17855591-18051996	JAK3	Janus kinase 3	19p13.1
CH82-441L12	chr20:48893805-49071619	36	0.0%	33.3%	chr19:16578834-16779577			
CH82-121P22	chr20:51313805-51514349	36	2.8%	38.9%	chr19:14081154-14366558			
CH82-388I10	chr20:52810296-53016830	37	0.0%	29.7%	chr19:11395219-11692716			
CH82-437E10	chr20:53858483-54044482	35	0.0%	25.7%	chr19:10117021-10342080			
CH82-505F20	chr20:55021489-55218901	36	0.0%	30.6%	chr19:7114450-7441809			
CH82-188F14	chr20:55519810-55691749	37	0.0%	32.4%	chr19:7872481-8073626			
CH82-14F21	chr20:56926492-57114495	35	0.0%	34.3%	chr19:5879022-6141243			
CH82-323H09	chr20:58049564-58236564	37	0.0%	27.0%	chr19:4383592-4646162	SH3GL1	SH3-domain GRB2-like 1	19p13.3
CH82-283N16	chr20:59485985-59697858	37	2.7%	27.0%	chr19:2582291-2868402			
CH82-136N17	chr20:59847172-60084905	37	2.7%	27.0%	chr19:2079791-2369914			
CH82-325G21	chr20:60892993-61088125	35	2.9%	42.9%	chr19:582910-922007	FSTL3	folliculin-like 3 (secreted glycoprotein)	19p13
CH82-313B08	chr21:24523550-24708525	35	2.9%	20.0%	chr11:76737157-76927331			
CH82-326G10	chr22:4453752-4640330	36	22.2%	0.0%	chr13:50800516-50973919			
CH82-126K03	chr22:6667906-6872711	32	21.9%	18.8%	chr13:48011064-48228965			
CH82-309B16	chr22:15820534-16003362	23	39.1%	0.0%	chr13:56941913-57235025			
CH82-126A16	chr22:17520548-17718546	36	22.2%	2.8%	chr13:59076979-59320717			
CH82-126F09	chr22:28164041-28355875	36	22.2%	0.0%	chr13:71452477-71674245			
CH82-326E15	chr22:30133741-30331549	37	21.6%	2.7%	chr13:73655111-73883988			
CH82-330P21	chr22:30775835-30962341	37	24.3%	2.7%	chr13:74408559-74597058			
CH82-186F08	chr22:36467429-36690048	32	21.9%	0.0%	chr13:81127346-81444481			
CH82-326H10	chr22:39772492-39975068	37	29.7%	0.0%	chr13:84976498-85237493			
CH82-106O04	chr22:40773104-40960928	37	21.6%	0.0%	chr13:86289042-86482338			
CH82-308J14	chr22:45186978-45342118	37	27.0%	2.7%	chr13:91735822-91878173			
CH82-191D20	chr22:47472902-47709266	37	24.3%	10.8%	chr13:94292830-94564541			
CH82-328D06	chr22:48483858-48677892	35	22.9%	5.7%	chr13:95399049-95633774			
CH82-328B21	chr22:49685677-49879456	36	22.2%	0.0%	chr13:96866518-97088094			
CH82-126A09	chr22:51127440-51293460	36	22.2%	5.6%	chr13:98672824-98856162			
CH82-332K18	chr22:60023448-60206811	37	21.6%	5.4%	chr13:108968264-109204031			
CH82-126B04	chr22:61273708-61511767	37	21.6%	8.1%	chr13:110546259-110860994			
CH82-199L08	chr23:31284498-31470504	37	21.6%	0.0%	chr13:130735270-130961415			
CH82-126H16	chr24:11140333-11288710	37	0.0%	32.4%	chr20:14387616-14544438			
CH82-182B05	chr24:49428264-49626425	37	8.1%	45.9%	chr20:60988628-61343858			
CH82-315H13	chr25:38113899-38309159	37	21.6%	0.0%	chr8:21784459-21984110			
CH82-189L10	chr25:54267103-54459965	36	8.3%	25.0%	chr2:242277058-242620575			
CH82-326A11	chr26:8374834-8618120	36	5.6%	22.2%	chr12:124669059-124963309			
CH82-197E07	chr26:16599392-16783033	36	0.0%	22.2%	chr12:117407679-117614137			
CH82-313E03	chr26:21358469-21397762	36	0.0%	27.8%	chr12:108874909-108931568			
CH82-328P24	chr26:27066446-27252958	37	0.0%	24.3%	chr22:31424642-31652570			
CH82-186N21	chr26:31607462-31801921	37	0.0%	27.0%	chr22:24118403-24285242	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1	22q11.23 22q11
CH82-330E15	chr26:32454852-32663606	37	5.4%	21.6%	chr22:319678784-19908344			
CH82-122I22	chr27:5962435-6181083	37	27.0%	2.7%	chr12:52199931-52440410			
CH82-328I02	chr27:16163484-16258720	35	48.6%	11.4%	chr12:40807684-40854854			
CH82-335J10	chr27:29995092-30168051	37	29.7%	0.0%	chr12:20216116-20414056			
CH82-335L19	chr27:32656118-32857697	37	2.7%	24.3%	chr12:17104133-17349826			
CH82-122O19	chr28:10668800-10836804	37	21.6%	2.7%	chr10:95146224-95370698			
CH82-362C04	chr28:37212125-37401678	37	24.3%	2.7%	chr10:126622006-126833358			
CH82-323B11	chr28:40886286-41087501	37	21.6%	0.0%	chr10:130986739-131204303			
CH82-325O03	chr28:43088385-43280642	37	21.6%	29.7%	chr10:133865970-134155938			
CH82-184A16	chr29:3083718-3274149	37	0.0%	29.7%	chr8:48731266-48893362			
CH82-287E21	chr29:4234872-4424045	37	0.0%	27.0%	chr8:49902412-50123371			
CH82-323F17	chr29:7694518-7875661	36	0.0%	25.0%	chr8:53756872-53949771			
CH82-335H02	chr29:9633231-9804796	37	0.0%	29.7%	chr8:56004716-56170069			
CH82-186K24	chr29:11056424-11217103	37	0.0%	35.1%	chr8:57708443-57903235			
CH82-14M12	chr29:11993531-12163081	35	0.0%	34.3%	chr8:59046913-59233297			
CH82-186L04	chr29:12819188-13097576	37	0.0%	40.5%	chr8:60099048-60288616			
CH82-312I02	chr29:13618057-13802817	37	2.7%	40.5%	chr8:61009411-61243838			

Clone ID	Dog chromosome location	# scored	% loss	% gain	Human chromosome location	Gene Symbol	Gene Description	Human cytogenetic assignment (Entrez)
CH82-323K08	chr29:14622563-14833432	37	5.4%	40.5%	chr8:62175093-62433769			
CH82-126F14	chr29:16100252-16297400	37	2.7%	43.2%	chr8:63866886-64142271			
CH82-313O22	chr29:16852524-17055678	37	2.7%	37.8%	chr8:64800376-65025232			
CH82-326L03	chr29:17828601-18018126	37	0.0%	35.1%	chr8:65965857-66202007			
CH82-126F15	chr29:21252970-21460451	37	2.7%	32.4%	chr8:69786666-70031231			
CH82-326I23	chr29:22513735-22699487	37	0.0%	37.8%	chr8:71284807-71516424			
CH82-328H09	chr29:25727982-25904378	36	2.8%	36.1%	chr8:75174568-75393390			
CH82-325D10	chr29:26683636-26913366	37	2.7%	40.5%	chr8:76323204-76638495			
CH82-191K08	chr29:28327571-28557660	36	2.8%	30.6%	chr8:78358423-78633145			
CH82-122J15	chr29:29602914-29782784	37	0.0%	32.4%	chr8:79933266-80183709			
CH82-484E08	chr29:30017710-30207186	37	0.0%	40.5%	chr8:80452986-80701280			
CH82-330F20	chr29:31039105-31239831	37	2.7%	43.2%	chr8:81707127-81914953			
CH82-106H09	chr29:32308350-32504845	37	2.7%	35.1%	chr8:83192551-83389790			
CH82-191F18	chr29:32966067-33125212	37	0.0%	27.0%	chr8:84035294-84221223			
CH82-323J24	chr29:34089937-34252905	37	0.0%	35.1%	chr8:85404014-85569621			
CH82-328L16	chr29:35327223-35497728	36	2.8%	38.9%	chr8:87092987-87343610			
CH82-328F07	chr29:37500720-37709838	36	2.8%	30.6%	chr8:89739611-90008338			
CH82-326A07	chr29:38366293-38555732	36	0.0%	38.9%	chr8:90898911-91093524			
CH82-314P02	chr29:39301421-39482179	36	0.0%	38.9%	chr8:91957016-92112980			
CH82-62K23	chr29:39904804-40101226	37	0.0%	40.5%	chr8:92644487-92917555			
CH82-188D01	chr29:41461463-41665840	37	67.6%	5.4%	chr8:94545807-94799474			
CH82-323E02	chr29:42277116-42468869	37	0.0%	40.5%	chr8:95602167-95836968			
CH82-126G10	chr30:10886976-11084926	35	20.0%	2.9%	chr15:41049359-41263385			
CH82-335E14	chr30:38212191-38384443	37	0.0%	32.4%	chr15:71906712-72114219			
CH82-491G03	chr30:41567655-41755083	37	18.0%	21.6%	chr15:77881277-78104451			
CH82-328N08	chr31:10637711-10830815	37	0.0%	21.6%	chr3:79442690-79629187			
CH82-328N02	chr31:14197845-14392011	37	0.0%	21.6%	chr21:15576483-15758359			
CH82-195C18	chr31:17493037-17686738	35	0.0%	20.0%	chr21:19501192-19719098			
CH82-79I10	chr31:18603440-18815254	36	0.0%	22.2%	chr21:20791371-21043655			
CH82-323A09	chr31:25338763-25546225	37	0.0%	29.7%	chr21:28370959-28597956			
CH82-181E06	chr31:29152367-29376466	37	0.0%	21.6%	chr21:32575131-32833226			
CH82-191I12	chr31:29947115-30119010	37	0.0%	24.3%	chr21:33507554-33701844			
CH82-309P19	chr31:31123435-31311223	36	0.0%	25.0%	chr21:34857456-35070402			
CH82-197B21	chr31:32547604-32755647	37	0.0%	29.7%	chr21:36433856-36682123			
CH82-188I19	chr31:33318883-33499903	37	0.0%	24.3%	chr21:37318098-37450143			
CH82-335D04	chr31:34189674-34368957	37	0.0%	35.1%	chr21:38258236-38466654			
CH82-330Q21	chr31:35133151-35336638	37	0.0%	29.7%	chr21:39290645-39488665			
CH82-362A18	chr31:36306767-36501061	37	0.0%	24.3%	chr21:40578774-40791137			
CH82-188N02	chr31:37676109-37882008	37	0.0%	27.0%	chr21:42164751-42411140			
CH82-205C10	chr31:38695825-38905561	37	2.7%	32.4%	chr21:43403628-43651726			
CH82-182M14	chr31:40609436-40774701	36	5.6%	22.2%	chr21:45934664-46196115			
CH82-161M15	chr31:41245748-41445063	37	2.7%	29.7%	chr21:46886264-47175836			
CH82-197H12	chr31:42061132-42084242	31	0.0%	25.8%	chr21:47889964-47921052			
CH82-335A09	chr32:11012143-11207843	37	0.0%	27.0%	chr4:85206508-85405383			
CH82-335L09	chr33:3201681-3387833	35	2.9%	34.3%	chr3:88421711-88660390			
CH82-335F20	chr33:7218463-7406125	37	24.3%	0.0%	chr3:96851744-97081923			
CH82-335J09	chr33:26526576-26712986	37	21.6%	5.4%	chr3:119581409-119816945			
CH82-335I16	chr34:17395866-17613087	37	2.7%	21.6%	chr3:180894273-181142097			
CH82-191D11	chr36:4119329-4286935	37	2.7%	27.0%	chr2:155267297-155474799			
CH82-126E06	chr36:4854221-5014991	37	2.7%	24.3%	chr2:156338171-156527215			
CH82-205B13	chr36:5861455-6039060	36	2.8%	33.3%	chr2:157529848-157747297			
CH82-326K05	chr36:9502729-9697668	37	0.0%	27.0%	chr2:161747149-161958312			
CH82-287K01	chr36:10383239-10579479	36	0.0%	36.1%	chr2:162822527-163020917			
CH82-335G24	chr36:11322918-11508563	36	0.0%	25.0%	chr2:163761181-163990785			
CH82-313H18	chr36:12287074-12478420	37	0.0%	35.1%	chr2:164871690-165090260			
CH82-335N09	chr36:13707723-13911360	36	0.0%	27.8%	chr2:166362266-166607258			
CH82-330F23	chr36:14418057-14601327	37	0.0%	24.3%	chr2:167193035-167389481			
CH82-332J12	chr36:16052595-16227580	37	0.0%	24.3%	chr2:168982359-169177217			
CH82-186L12	chr36:16602889-16822655	37	0.0%	32.4%	chr2:169610313-169855861			
CH82-362P01	chr36:18365962-18563705	37	0.0%	29.7%	chr2:171671651-171868093			
CH82-188B08	chr36:19726329-19893588	37	0.0%	29.7%	chr2:173217252-173413578			
CH82-205N21	chr36:20959683-21140453	37	0.0%	32.4%	chr2:174667906-174874306			
CH82-326I02	chr36:22233408-22434804	33	0.0%	33.3%	chr2:176127949-176380342			
CH82-188B19	chr36:24784198-25021727	36	0.0%	30.6%	chr2:178983591-179228625			
CH82-335L10	chr36:25648504-25871279	37	0.0%	35.1%	chr2:179909543-180205511			
CH82-126D12	chr36:28878020-29048321	36	2.8%	30.6%	chr2:183664438-183850855			
CH82-326O07	chr36:29954665-30152248	36	0.0%	22.2%	chr2:185058299-185291824			
CH82-188L14	chr36:31547410-31729319	34	0.0%	23.5%	chr2:187057192-187321791			
CH82-328L10	chr36:32386641-32578362	36	2.8%	25.0%	chr2:18824084-188473892			
CH82-323N12	chr36:33672986-33831456	37	0.0%	29.7%	chr2:190009821-190216143			
CH82-186I06	chr37:15295313-15341308	37	0.0%	21.6%	chr2:204313947-204356979			
CH82-122D22	chr37:17797277-17969185	37	2.7%	24.3%	chr2:207099416-207287328			
CH82-191P21	chr38:4006509-4209482	37	2.7%	24.3%	chr1:204427413-204638490			
CH82-313F14	chr38:11977641-12180890	36	22.2%	5.6%	chr1:189270854-189520913			
CH82-307K12	chr38:12820932-12993661	36	22.2%	5.6%	chr1:188214552-188433196			
CH82-122E23	chr38:14283868-14500378	31	22.6%	9.7%	chr1:216048327-216281804			
CH82-122K05	chr38:16048359-16219112	37	27.0%	5.4%	chr1:218059518-218276635			
					MDM4	Mdm4 p53 binding protein homolog (mouse)		1q32

Clone ID	Dog chromosome location	# scored	% loss	% gain	Human chromosome location	Gene Symbol	Gene Description	Human cytogenetic assignment (Entrez)
CH82-465H08	chr38:16739980-16926449	37	27.0%	2.7%	chr1:218892467-219122824			
CH82-126D23	chr38:17789937-17957237	37	27.0%	5.4%	chr1:220174663-220357159			
CH82-465E12	chr38:18965987-19161116	36	27.8%	5.6%	chr1:221568796-221824332			
CH82-182D13	chr38:20156017-20370321	37	29.7%	2.7%	chr1:166036813-166340889			
CH82-328C16	chr38:21638541-21840348	37	27.0%	2.7%	chr1:164347203-164598605	PBX1	pre-B-cell leukemia homeobox 1	1q23
CH82-283L06	chr38:22474724-22638988	37	29.7%	2.7%	chr1:163228114-163431132			
CH82-326D12	chr38:23819476-24017707	37	29.7%	2.7%	chr1:161628277-161826899	FCGR2B	Fc fragment of IgG, low affinity IIB, receptor (CD32)	1q23
CH82-328D10	chr38:25164962-25365710	37	43.2%	2.7%	chr1:159744164-159996169			
CH82-183C10	chr38:25708246-25926765	37	37.8%	2.7%	chr1:158901640-159265610			
CH82-160F08	chr38:26490011-26647053	37	21.6%	5.4%	chr1:157972477-158173690			
CH82-122F19	chrX:1651879-1665994	37	0.0%	21.6%	chrX:3134685-3156819			
CH82-315N13	chrX:4382351-4589338	37	51.4%	5.4%	chrX:7213606-7488068			
CH82-122O09	chrX:5646908-5840739	36	52.8%	2.8%	chrX:8827492-9058385			
CH82-373B18	chrX:5822318-5989560	37	51.4%	5.4%	chrX:9038268-9220939			
CH82-227C15	chrX:5971142-6187626	37	43.2%	2.7%	chrX:9201065-9443981			
CH82-389B13	chrX:6111233-6325780	36	50.0%	8.3%	chrX:9327532-9610241			
CH82-507I17	chrX:6290220-6483302	37	48.6%	8.1%	chrX:9574437-9801392			
CH82-493H08	chrX:6473119-6653980	37	45.9%	2.7%	chrX:9788718-9964113			
CH82-29D17	chrX:6483311-6693039	37	45.9%	5.4%	chrX:9801399-10008102			
CH82-97B04	chrX:6533886-6775595	37	21.6%	5.4%	chrX:9850917-10094220			
CH82-91I11	chrX:6560558-6775593	37	24.3%	5.4%	chrX:9881348-10094218			
CH82-172L08	chrX:6580406-6792491	37	21.6%	8.1%	chrX:9902618-10112962			
CH82-397M10	chrX:6612686-6813346	37	24.3%	10.8%	chrX:9935756-10127710			
CH82-186A13	chrX:8622483-8841305	36	22.2%	5.6%	chrX:12159688-12372917			
CH82-186E11	chrX:23729023-23936037	30	20.0%	10.0%	chrX:28636001-28848902			
CH82-313H10	chrX:26532025-26753216	36	22.2%	0.0%	chrX:31439398-31670123			
CH82-323P17	chrX:28530722-28627563	36	22.2%	5.6%	chrX:33572322-33690496			
CH82-326L07	chrX:29691785-29861891	36	22.2%	5.6%	chrX:34714769-34891591			
CH82-330N15	chrX:33909051-34103736	37	21.6%	5.4%	chrX:39156212-39381002			
CH82-122L02	chrX:35342480-35540753	37	0.0%	24.3%	chrX:40823137-41014036			
CH82-335I16	chrX:36738805-36947667	35	31.4%	5.7%	chrX:42405051-42662210			
CH82-191G09	chrX:38808689-39026988	37	21.6%	5.4%	chrX:44886732-45114646	KDM6A	lysine (K)-specific demethylase 6A	Xp11.2
CH82-315N11	chrX:53085751-53275748	33	21.2%	0.0%	nd			
CH82-126J24	chrX:66297723-66532843	36	61.1%	8.3%	nd			
CH82-335P22	chrX:85500216-85667178	37	0.0%	45.9%	chrX:108277972-108556760			
CH82-184J03	chrX:108872756-108912373	36	11.1%	52.8%	chrX:134417680-134432578			
CH82-335B16	chrX:110259055-110442724	37	0.0%	29.7%	chrX:135973776-136176938			
CH82-126I09	chrX:121537613-121744136	33	0.0%	27.3%	chrX:149356337-149590018			