

Supplementary Table 3: Chicken Z gene gain and loss

Gene Name	Chicken Chr	Chicken Pos	Chicken ENS ID	Human Chr	Human Pos	Human ENS ID	Category	Notes
TCF4	Z	13014		18		51040560 ENSG00000196628	A	
ATP8B1	Z	330300	ENSGALG00000003253	18		53464656 ENSG00000081923	A	
NARS	Z	354861	ENSGALG00000003087	18		53418894 ENSG00000134440	A	
HEMH	Z	368798	ENSGALG00000003066	18		53366535 ENSG00000066926	A	
ONECUT2	Z	397502		18		53253915 ENSG00000119547	A	
ST8SIA3	Z	423931	ENSGALG00000003049	18		53170719 ENSG00000177511	A	
WDR7	Z	467783	ENSGALG00000003019	18		52469614 ENSG00000091157	A	
TXNL1	Z	581344	ENSGALG00000002948	18		52421053 ENSG00000091164	A	
NEDD4L	Z	669845	ENSGALG00000002917	18		53862778 ENSG00000049759	A	
ALPK2	Z	756230	ENSGALG00000002898	18		54299459 ENSG00000198796	A	
MALT1	Z	796591	ENSGALG00000002872	18		54489598 ENSG00000172175	A	
ZNF532	Z	852028	ENSGALG00000002852	18		54681041 ENSG00000074657	A	
SEC11L3	Z	887557	ENSGALG00000002839	18		54958105 ENSG00000166562	A	
RAX	Z	909472	ENSGALG000000013431	18		55085247 ENSG00000134438	A	
CPLX4	Z	916265	ENSGALG00000002817	18		55113634 ENSG00000166569	A	
LMAN1	Z	933892	ENSGALG00000002805	18		55148088 ENSG00000074695	A	
ACAA2	Z	973832	ENSGALG00000002777	18		45563873 ENSG00000167315	A	
LIPG	Z	1050384	ENSGALG00000002712	18		45342425 ENSG00000101670	A	
OR13J1	Z	1055458		9		35859260 ENSG00000168828	A	
RPL17	Z	1066621	ENSGALG00000002696	18		45269794 ENSG00000215472	A	
C18orf32	Z	1071736	ENSGALG00000018565	18		45262027 ENSG00000177576	A	
DYM	Z	1082467	ENSGALG00000002677	18		44824170 ENSG00000141627	A	
SMAD7	Z	1251091	ENSGALG00000018639	18		44700222 ENSG00000101665	A	
KIAA0427	Z	1291621	ENSGALG00000023718	18		44319425 ENSG00000134030	A	
ZBTB7C	Z	1473518	ENSGALG00000014696	18		43807746 ENSG00000184828	A	
SMAD2	Z	1512559	ENSGALG00000014697	18		43613464 ENSG00000175387	A	
Q2VWA4	Z	1712534	ENSGALG00000001867	18		43011492 ENSG00000215474	A	
IER3IP1	Z	1742146		18		42935413 ENSG00000134049	A	
HDHD2	Z	1747422	ENSGALG00000001865	18		42887780 ENSG00000167220	A	
KATNAL2	Z	1754244	ENSGALG00000001851	18		42780785 ENSG00000167216	A	
PIAS2	Z	1773475	ENSGALG00000001843	18		42646058 ENSG00000078043	A	
ST8SIA5	Z	1835018	ENSGALG00000001808	18		42513079 ENSG00000101638	A	
LOXHD1	Z	1888711	ENSGALG00000001787	18		42310933 ENSG00000167210	A	
RNF165	Z	2031598	ENSGALG00000001766	18		42168185 ENSG00000141622	A	
C18orf25	Z	2077902	ENSGALG00000001763	18		42007986 ENSG00000152242	A	
CCDC5	Z	2127364	ENSGALG00000001761	18		41938323 ENSG00000152240	A	
ATPSA1	Z	2139446	ENSGALG000000014644	18		41918108 ENSG00000152234	A	
PSTPIP2	Z	2148849	ENSGALG00000001745	18		41817500 ENSG00000152229	A	
KIAA1632	Z	2164879	ENSGALG00000001732	18		41681573 ENSG00000152223	A	
SIGLEC15	Z	2217016	ENSGALG000000021416	18		41659543 ENSG00000197046	A	
SLC14A2	Z	2239719		18		41448780 ENSG00000132874	A	
SLC14A1	Z	2267294	ENSGALG00000001705	18		41558147 ENSG00000141469	A	
SETBP1	Z	2693022	ENSGALG00000001677	18		40514861 ENSG00000152217	A	
SYT4	Z	3292215	ENSGALG00000008893	18		39101857 ENSG00000132872	A	
RIT2	Z	3353261	ENSGALG00000017593	18		38577191 ENSG00000152214	A	
PIK3C3	Z	3875564	ENSGALG00000008887	18		37789197 ENSG00000078142	A	
BRUNOL4	Z	6110732	ENSGALG00000018499	18		33077828 ENSG00000101489	A	
ASA2G2	Z	6636818	ENSGALG00000002413	18		33077828 ENSG00000101489	A	
KIAA1328	Z	6809182	ENSGALG00000002419	18		32663078 ENSG00000150477	A	
C18orf10	Z	6966627	ENSGALG00000002429	18		32630033 ENSG00000134779	A	
AQP7P4	Z	6992391	ENSGALG00000018534	9		66961803 ENSG00000176115	A	
AQP3	Z	7060177	ENSGALG00000002452	9		33431161 ENSG00000165272	A	
NOL6	Z	7118021	ENSGALG00000014168	9		33451354 ENSG00000165271	A	
UBE2R2	Z	7167734	ENSGALG00000001668	9		33807182 ENSG00000107341	A	
Q6Y2W3	Z	7223381	ENSGALG00000013809	9		33911691 ENSG00000137073	A	
UBAP2	Z	7282021	ENSGALG00000013809	9		33911691 ENSG00000137073	A	
WDR40A	Z	7342184	ENSGALG00000005800	9		34076386 ENSG00000198876	A	
UBAP1	Z	7387534	ENSGALG000000021378	9		34169011 ENSG00000165006	A	
C9orf48	Z	7410737	ENSGALG00000005806	9		34242379 ENSG00000186638	A	
NUDT2	Z	7442541	ENSGALG00000005810	9		34319504 ENSG00000164978	A	
KIAA1161	Z	7481951	ENSGALG00000005814	9		34358907 ENSG00000164976	A	
C9orf24	Z	7491114	ENSGALG00000005818	9		34369017 ENSG00000164972	A	
C9orf25	Z	7504745	ENSGALG00000005821	9		34388182 ENSG00000164970	A	
DNAI1	Z	7612638	ENSGALG00000005831	9		34448811 ENSG00000122735	A	
ARID3C	Z	7737308	ENSGALG00000005839	9		34611455 ENSG00000205143	A	
C9orf23	Z	7737442	ENSGALG00000005833	9		34600493 ENSG00000164967	A	
DCTN3	Z	7741849	ENSGALG000000021365	9		34603549 ENSG00000137100	A	
SIGMAR	Z	7769786		9		34624719 ENSG00000147955	A	
GALT	Z	7771931		9		34636635 ENSG00000213930	A	
CNTFR	Z	8109916	ENSGALG00000007275	9		34541432 ENSG00000122756	A	
IL11RA	Z	8155875	ENSGALG00000005848	9		34643932 ENSG00000137070	A	
KIAA1045	Z	8272396	ENSGALG00000001900	9		34948192 ENSG00000122733	A	
DNAJB5	Z	8290987	ENSGALG00000001918	9		34979742 ENSG00000137094	A	
PIGO	Z	8307850	ENSGALG00000002023	9		35078685 ENSG00000165282	A	
VCP	Z	8307852	ENSGALG00000001986	9		35046904 ENSG00000165280	A	
FANCG	Z	8338237	ENSGALG00000002009	9		35063837 ENSG00000221829	A	
STOML2	Z	8359674	ENSGALG00000002064	9		35089891 ENSG00000165283	A	
KIAA1539	Z	8365469	ENSGALG00000002069	9		35094109 ENSG00000005238	A	
UNC13B	Z	8522690	ENSGALG00000002165	9		35151989 ENSG00000198722	A	
AL133476.17	Z	8652284	ENSGALG00000002326	9		35396765 ENSG00000179766	A	
RUSC2	Z	8750054	ENSGALG00000002371	9		35480124 ENSG00000198853	A	
TESK1	Z	8814651		9		35595281 ENSG00000107140	A	
CD72	Z	8823764	ENSGALG00000005194	9		35599530 ENSG00000137101	A	
C9orf127	Z	8847140	ENSGALG00000002386	9		35804448 ENSG00000137103	A	
HINT2	Z	8857351		9		35802957 ENSG00000137133	A	
SPAG8	Z	8862363		9		35797782 ENSG00000137098	A	
NPR2	Z	8864356	ENSGALG000000023627	9		35782151 ENSG00000159899	A	
MSMP	Z	8880560		9		35742990 ENSG00000215183	A	
RGP1	Z	8883531	ENSGALG00000002394	9		35739340 ENSG00000107185	A	
GBA2	Z	8892641	ENSGALG00000002412	9		35726864 ENSG00000070610	A	
CREB3	Z	8935185	ENSGALG00000002523	9		35722317 ENSG00000107175	A	
TLN1	Z	8942836	ENSGALG00000002548	9		35687336 ENSG00000137076	A	
Q9PST0	Z	8973864	ENSGALG00000002563	9		35671990 ENSG00000198467	A	
CA9	Z	8993052	ENSGALG000000021340	9		35663853 ENSG00000107159	A	
MYO5B	Z	9037011		18		45603099 ENSG00000167306	A	
C9orf100	Z	9052340	ENSGALG00000002599	9		35649341 ENSG00000137135	A	
CCBE1	Z	9070159	ENSGALG00000002613	18		55252129 ENSG00000183287	A	
PDZD2	Z	9223760	ENSGALG00000002854	5		31834788 ENSG00000133401	A	
GOLPH3	Z	9434929	ENSGALG00000003151	5		32160581 ENSG00000113384	A	
MTMR12	Z	9476201	ENSGALG00000003168	5		32262868 ENSG00000150712	A	
ZFR	Z	9520947	ENSGALG00000003235	5		32390214 ENSG00000056097	A	

TCP4	Z	9569665	ENSGALG00000003248	5	32621434	ENSG000000113387	A
NPR3	Z	9814902	ENSGALG00000017405	5	32747422	ENSG000000113389	A
TARS	Z	9869024	ENSGALG00000003288	5	33476655	ENSG000000113407	A
ADAMTS12	Z	9907419	ENSGALG00000003295	5	33563043	ENSG000000151388	A
RXFP3	Z	10081770	ENSGALG00000017411	5	33972246	ENSG000000182631	A
A3QW68	Z	10095465	ENSGALG00000003310	5	33980481	ENSG000000164175	A
AMACR	Z	10114770	ENSGALG00000003326	5	34023069	ENSG000000082196	A
RA114	Z	10231367	ENSGALG00000003353	5	34692275	ENSG000000039560	A
RAD1	Z	10324779	ENSGALG00000003365	5	34938268	ENSG000000113456	A
BXDC2	Z	10330247	ENSGALG00000003373	5	34951577	ENSG000000113460	A
DNAJA5	Z	10334847	ENSGALG00000003387	5	34965455	ENSG000000168724	A
AGXT2	Z	10351118	ENSGALG00000003432	5	35033965	ENSG000000113492	A
PRLR	Z	10377880	ENSGALG00000003446	5	35084621	ENSG000000113494	A
SPEF2	Z	10561297	ENSGALG00000003459	5	35653746	ENSG000000152582	A
A1EA95	Z	10653651	ENSGALG00000013372	5	35892748	ENSG000000168685	A
CAPSL	Z	10675092	ENSGALG00000013376	5	35940157	ENSG000000152611	A
LMBRD2	Z	10704936	ENSGALG00000013377	5	36139171	ENSG000000164187	A
SKP2	Z	10746116	ENSGALG00000003547	5	36187946	ENSG000000145604	A
C5orf33	Z	10759830	ENSGALG00000003558	5	36228451	ENSG000000152620	A
AC008942.6-1	Z	10775905		5	36263356	ENSG000000219830	A
RANBP3L	Z	10801765	ENSGALG000000021304	5	36284862	ENSG000000164188	A
Q9IAS3	Z	10938885	ENSGALG00000003582	5	36642446	ENSG000000079215	A
NIPBL	Z	11124762	ENSGALG00000003605	5	36912649	ENSG000000164190	A
C5orf42	Z	11234645	ENSGALG00000003629	5	37142087	ENSG000000197603	A
AC025449.6-3	Z	11280703	ENSGALG00000003631	5	37241214	ENSG000000215147	A
NUP155	Z	11300366	ENSGALG00000003688	5	37327698	ENSG000000113569	A
WDR70	Z	11332836	ENSGALG00000003708	5	37415169	ENSG000000082068	A
Q9IAM2	Z	11493411	ENSGALG00000003716	5	37848536	ENSG000000168621	A
EGFLAM	Z	11687383	ENSGALG00000003726	5	38294290	ENSG000000164318	A
LIFR	Z	11774693	ENSGALG00000003733	5	38510823	ENSG000000113594	A
OSMR	Z	11923198	ENSGALG00000003747	5	38881893	ENSG000000145623	A
RICTOR	Z	11953811	ENSGALG00000003775	5	38973779	ENSG000000164327	A
FYB	Z	12039412	ENSGALG00000003792	5	39141115	ENSG000000082074	A
DAB2	Z	12115936	ENSGALG00000003803	5	39407537	ENSG000000153071	A
A2TH16	Z	12607398	ENSGALG00000014824	5	40715789	ENSG000000171522	A
PRKAA1	Z	12622605	ENSGALG00000014832	5	40795238	ENSG000000132356	A
TTC33	Z	12622607	ENSGALG00000014826	5	40747439	ENSG000000113638	A
MELK	Z	12668035	ENSGALG00000016438	9	36562873	ENSG000000165304	A
RPL37	Z	12684859	ENSGALG00000014833	5	40867187	ENSG000000145592	A
C7	Z	12703690	ENSGALG00000014835	5	40945356	ENSG000000112936	A
C6	Z	12734366	ENSGALG00000014840	5	41178093	ENSG000000039537	A
PLCXD3	Z	12787286	ENSGALG00000014845	5	41342805	ENSG000000182836	A
OXCT1	Z	12946701	ENSGALG00000014846	5	41765925	ENSG000000083720	A
C5orf51	Z	13040107	ENSGALG00000014849	5	41940227	ENSG000000205765	A
FBXO4	Z	13043626	ENSGALG00000014851	5	41961113	ENSG000000151876	A
GHR	Z	13309802	ENSGALG00000014855	5	42459783	ENSG000000112964	A
CCDC152	Z	13339262	ENSGALG00000023503	5	42792687	ENSG000000198865	A
SEPP1	Z	13355763	ENSGALG00000014857	5	42836579	ENSG000000211446	A
ZNF131	Z	13381238	ENSGALG00000014859	5	43157399	ENSG000000172262	A
NIM1	Z	13381239	ENSGALG00000014861	5	43228084	ENSG000000177453	A
HMCS1	Z	13423735	ENSGALG00000014862	5	43325250	ENSG000000112972	A
C5orf28	Z	13457746	ENSGALG00000014863	5	43480112	ENSG000000151881	A
C5orf34	Z	13476867	ENSGALG00000014865	5	43522567	ENSG000000172244	A
PAIP1	Z	13491966	ENSGALG00000014867	5	43562129	ENSG000000172239	A
NNT	Z	13514136	ENSGALG00000014869	5	43638582	ENSG000000112992	A
FGF10	Z	13794014	ENSGALG00000014872	5	44340831	ENSG000000070193	A
MRPS30	Z	13950132	ENSGALG00000014874	5	44844784	ENSG000000112996	A
HCN1	Z	14175748	ENSGALG00000014875	5	45295125	ENSG000000164588	A
EMB	Z	14455744	ENSGALG00000014877	5	49730236	ENSG000000170571	A
PARP8	Z	14620858	ENSGALG00000014880	5	49998570	ENSG000000151883	A
ISL1	Z	14911245	ENSGALG00000014884	5	50714715	ENSG00000016082	A
PELO	Z	15545840	ENSGALG00000022377	5	52119531	ENSG000000152684	A
ITA1	Z	15561360	ENSGALG00000014891	5	52119893	ENSG000000213949	A
ITGA2	Z	15629071	ENSGALG00000014903	5	52320913	ENSG000000164171	A
MOCS2	Z	15699045	ENSGALG00000014906	5	52427266	ENSG000000164172	A
FST	Z	15839352	ENSGALG00000014908	5	52812174	ENSG000000134363	A
QBQGH0	Z	15870578	ENSGALG00000014909	5	52892242	ENSG000000164258	A
ARL15	Z	16087162	ENSGALG00000014911	5	53216371	ENSG000000185305	A
SNX18	Z	16205099	ENSGALG00000014914	5	53849350	ENSG000000178996	A
HSPB3	Z	16205290	ENSGALG00000014912	5	53787202	ENSG000000169271	A
ESM1	Z	16394708		5	54309915	ENSG000000164283	A
GZMK	Z	16416503	ENSGALG00000013546	5	54355864	ENSG000000113088	A
GZMA	Z	16428650	ENSGALG00000013548	5	54434230	ENSG000000145649	A
CDC20B	Z	16441685	ENSGALG00000023476	5	54444580	ENSG000000164287	A
GPX8	Z	16462732	ENSGALG00000013553	5	54491744	ENSG000000164294	A
CCNO	Z	16497435		5	54562740	ENSG000000152669	A
DHX29	Z	16504263	ENSGALG00000014700	5	54587831	ENSG000000067248	A
SKIV2L2	Z	16528159	ENSGALG00000014709	5	54639594	ENSG000000039123	A
PPAP2A	Z	16572872	ENSGALG00000014711	5	54756442	ENSG000000067113	A
SLC38A9	Z	16651237	ENSGALG00000014712	5	54957430	ENSG000000177058	A
DDX4	Z	16696396	ENSGALG00000014713	5	55069627	ENSG000000152670	A
IL31RA	Z	16766573	ENSGALG00000014714	5	55182964	ENSG000000164509	A
IL6ST	Z	16794968	ENSGALG00000014716	5	55266680	ENSG000000134352	A
ANKRD55	Z	16859047	ENSGALG00000014717	5	55431264	ENSG000000164512	A
MAP3K1	Z	17206212	ENSGALG00000014718	5	56146657	ENSG000000095015	A
C5orf35	Z	17231696	ENSGALG00000014719	5	56240857	ENSG000000155542	A
MIER3	Z	17246424	ENSGALG00000014721	5	56251186	ENSG000000155545	A
GPBP1	Z	17302941	ENSGALG00000014724	5	56505701	ENSG000000062194	A
PLK2	Z	17786738	ENSGALG00000014725	5	57785571	ENSG000000145632	A
RAB3C	Z	17845969	ENSGALG00000014726	5	57914696	ENSG000000152932	A
PDE4D	Z	18020720	ENSGALG00000014727	5	58300629	ENSG000000113448	A
DEP1B	Z	18623218	ENSGALG00000014729	5	59928506	ENSG000000035499	A
ELOVL7	Z	18644828	ENSGALG00000014730	5	60083376	ENSG000000164181	A
ERCC8	Z	18699479	ENSGALG00000014732	5	60205415	ENSG000000049167	A
NDUFAF2	Z	18737368	ENSGALG00000014733	5	60276791	ENSG000000164182	A
Q5F409	Z	18785922	ENSGALG00000023443	5	60489297	ENSG000000188725	A
ZSWIM6	Z	18912440	ENSGALG00000014735	5	60852928	ENSG000000130449	A
cZorf11	Z	19100605	ENSGALG00000020570	5	X10		A
KIF2A	Z	19187940	ENSGALG00000014737	5	61637746	ENSG000000068796	A
DIMT1L	Z	19248664	ENSGALG00000020569	5	61720108	ENSG000000086189	A
IPO11	Z	19262666	ENSGALG00000014740	5	61744351	ENSG000000086200	A
HTR1A	Z	19760841	ENSGALG00000014742	5	63292034	ENSG000000178394	A
RNF180	Z	19834120	ENSGALG00000014743	5	63497427	ENSG000000164197	A

RGS7BP	Z	19834664	ENSGALG00000014744	5	63838208	ENSG00000186479	A
FAM159B	Z	19973950	ENSGALG00000014745	5	64049736	ENSG00000153006	A
SDCCAG10	Z	19978630	ENSGALG00000014747	5	64100511	ENSG00000153015	A
ADAMTS6	Z	20135955	ENSGALG00000014751	5	64480322	ENSG00000049192	A
CENPK	Z	20316278	ENSGALG00000014753	5	64849349	ENSG00000123219	A
PPWD1	Z	20337264	ENSGALG00000014756	5	64894873	ENSG00000113593	A
TRIM23	Z	20355383	ENSGALG00000014765	5	64921268	ENSG00000113595	A
C5orf44	Z	20380292	ENSGALG00000014767	5	64956628	ENSG00000113597	A
SGTB	Z	20402293	ENSGALG00000014768	5	64997520	ENSG00000197860	A
NLN	Z	20433278	ENSGALG00000014769	5	65053834	ENSG00000123213	A
ERBB2IP	Z	20535250	ENSGALG00000014773	5	65258158	ENSG00000112851	A
SFRS12	Z	20618630	ENSGALG00000014775	5	65475841	ENSG00000153914	A
MAST4	Z	21001540	ENSGALG00000014784	5	65927932	ENSG00000069020	A
CD180	Z	21064239	ENSGALG00000023411	5	66513872	ENSG00000134061	A
PIK3R1	Z	21372177	ENSGALG00000014786	5	67558218	ENSG00000145675	A
MRPS36	Z	21573150	ENSGALG00000014789	5	68549329	ENSG00000134056	A
SLC30A5	Z	21652603	ENSGALG00000014787	5	68425638	ENSG00000145740	A
CENPH	Z	21677685	ENSGALG00000014788	5	68521131	ENSG00000153044	A
CDK7	Z	21683992	ENSGALG00000014790	5	68566471	ENSG00000134058	A
SERINC5	Z	21742485	ENSGALG00000014798	5	79466607	ENSG00000164300	A
Q91002	Z	21782331	ENSGALG00000014804	5	79366859	ENSG00000113296	A
Q5F3K9	Z	21825182	ENSGALG00000014807	5	79313964	ENSG00000177034	A
CMYA5	Z	21893340	ENSGALG00000014809	5	78,985,659	ENSG00000164309	A
PAPD4	Z	21893340	ENSGALG00000014810	5	78944152	ENSG00000164329	A
HOMER1	Z	22019772	ENSGALG00000014813	5	78704215	ENSG00000152413	A
JMY	Z	22103814	ENSGALG00000014819	5	78568095	ENSG00000152409	A
BHMT	Z	22189559	ENSGALG00000004518	5	78443360	ENSG00000145692	A
BHMT2	Z	22189657	ENSGALG00000004518	5	78401339	ENSG00000132840	A
DMGDH	Z	22205667	ENSGALG00000004491	5	78329186	ENSG00000132837	A
ARSB	Z	22255809	ENSGALG00000004438	5	78108795	ENSG00000113273	A
LHFPL2	Z	22456798	ENSGALG00000004437	5	77816796	ENSG00000145685	A
SCAMP1	Z	22476737	ENSGALG00000004425	5	77692163	ENSG00000085365	A
AP3B1	Z	22543480	ENSGALG00000004390	5	77333909	ENSG00000132842	A
TBCA	Z	22840066	ENSGALG00000004353	5	77022751	ENSG00000171530	A
OTP	Z	22892634	ENSGALG00000017547	5	76960294	ENSG00000171540	A
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POLR3G	Z	60279514	ENSGALG00000014650	5	89806437	ENSG00000113356	A
MBLC2	Z	60299932	ENSGALG00000014649	5	89789778	ENSG00000176055	A
CETN3	Z	60319272	ENSGALG00000014648	5	89725287	ENSG00000153140	A
MEF2C	Z	61006062	ENSGALG00000014645	5	88051922	ENSG00000081189	A
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TMEM161B	Z	61174226	ENSGALG00000010896	5	87526779	ENSG00000164180	A
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RASA1	Z	61395572	ENSGALG00000017706	5	86599838	ENSG00000145715	A
COX7	Z	61621765	ENSGALG00000015631	5	85949540	ENSG00000127184	A
EDIL3	Z	62677037	ENSGALG00000015630	5	83273882	ENSG00000164176	A
HPLN1	Z	62975431	ENSGALG00000015627	5	82972502	ENSG00000145681	A
CSPG2	Z	63036969	ENSGALG00000015624	5	82803339	ENSG00000038427	A

XRCC4	Z	63268416	ENSGALG00000015620	5	82409073	ENSG000000152422	A
TMEM167A	Z	63365737		5	82387742	ENSG000000174695	A
ATP6A1L	Z	63722635	ENSGALG000000015618	5	81611037	ENSG000000205464	A
RPS23	Z	63743719	ENSGALG000000015617	5	81604899	ENSG000000186468	A
ATG10	Z	63757721	ENSGALG000000020531	5	81303630	ENSG000000152348	A
SSBP2	Z	64030122	ENSGALG000000023089	5	80751428	ENSG000000145687	A
ACOT12	Z	64086779	ENSGALG000000015616	5	80661580	ENSG000000172497	A
ZCCHC9	Z	64121893	ENSGALG000000015603	5	80633178	ENSG000000131732	A
RASGRF2	Z	64135616	ENSGALG000000015598	5	80292314	ENSG000000113319	A
CKMT2	Z	64135618	ENSGALG000000015602	5	80564895	ENSG000000131730	A
MSH3	Z	64320644	ENSGALG000000015589	5	79986050	ENSG000000113318	A
DHFR	Z	64437558	ENSGALG000000015579	5	79,957,801		A
ANKRD34B	Z	64470560	ENSGALG000000015578	5	79888331	ENSG000000189127	A
FAM151B	Z	64477711	ENSGALG000000015577	5	79819556	ENSG000000152380	A
ZFYVE16	Z	64493658	ENSGALG000000015576	5	79739594	ENSG000000039319	A
CCDC125	Z	64531130	ENSGALG000000015572	5	68612278	ENSG000000183323	A
AC145132.2	Z	64547685	ENSGALG000000020534	5	68683311	ENSG000000185057	A
RAD17	Z	64549420	ENSGALG000000015571	5	68700880	ENSG000000152942	A
GRIN3A	Z	65413247	ENSGALG000000015551	9	103371456	ENSG000000198785	A
BRE1A	Z	65486375	ENSGALG000000015548	9	103335954	ENSG000000155827	A
C9orf125	Z	65522004	ENSGALG000000015545	9	103275274	ENSG000000165152	A
ALDOB	Z	65536495	ENSGALG000000015544	9	103222681	ENSG000000136872	A
RM50	Z	65542199	ENSGALG000000015543	9	103192070	ENSG000000136897	A
PPAPR3	Z	65545830	ENSGALG000000015542	9	102830852	ENSG000000148123	A
PALM2	Z	66054047	ENSGALG000000015655	9	111442893	ENSG000000157654	A
AKAP2	Z	66225483	ENSGALG000000015656	9	111442893	ENSG000000157654	A
SLC46A2	Z	66256609		9	114681022	ENSG000000119457	A
SNX30	Z	66268598	ENSGALG000000015660	9	114552955	ENSG000000148158	A
CI080	Z	66328245	ENSGALG000000020528	9	114488618	ENSG000000148153	A
KIAA1958	Z	66366436	ENSGALG000000023083	9	114289069	ENSG000000165185	A
HSDL2	Z	66417411	ENSGALG000000015663	9	114182038	ENSG000000119471	A
UGCG	Z	66473592	ENSGALG000000015682	9	113698867	ENSG000000148154	A
C9orf84	Z	66556906		9	113488274	ENSG000000165181	A
DNAJC25-GNC	Z	66615726	ENSGALG000000015684	9	113433453	ENSG000000059769	A
KIAA0368	Z	66631560	ENSGALG000000015689	9	113162793	ENSG000000136813	A
SMC2	Z	66683471	ENSGALG000000015691	9	105896362	ENSG000000136824	A
PTGR1	Z	66718539	ENSGALG000000015702	9	113365074	ENSG000000106853	A
THIO	Z	66738618	ENSGALG000000015704	18	9875723	ENSG000000168454	A
TXN	Z	66738620	ENSGALG000000015704	9	112046121	ENSG000000136810	A
SVEP1	Z	66755902	ENSGALG000000015721	9	112167352	ENSG000000165124	A
MUSK	Z	66936215	ENSGALG000000015728	9	112470960	ENSG000000030304	A
LPAR1	Z	67030757	ENSGALG000000015729	9	112675365	ENSG000000198121	A
PRKACG	Z	67295456		9	70817241	ENSG000000165059	A
TMEM215	Z	67304854	ENSGALG000000015754	9	32773497	ENSG000000188133	A
TOPORS	Z	67334749	ENSGALG000000020523	9	32530545	ENSG000000197579	A
ELAVL2	Z	67640308	ENSGALG000000015799	9	23680102	ENSG000000107105	A
AL589843.9	Z	68201881		9	98531217	ENSG000000204328	A
TUSC1	Z	68475264	ENSGALG000000017510	9	25667681	ENSG000000198680	A
PLAA	Z	68763380	ENSGALG000000001782	9	26894518	ENSG000000137055	A
C9orf82	Z	68763388	ENSGALG000000001765	9	26830685	ENSG000000120159	A
IFT74	Z	68799954	ENSGALG000000001801	9	26946410	ENSG000000096872	A
LRRRC19	Z	68805841		9	26983590	ENSG000000184434	A
TEK	Z	68839484	ENSGALG000000001840	9	27099286	ENSG000000120156	A
MOBK12B	Z	68893975	ENSGALG000000001856	9	27319129	ENSG000000120162	A
C9orf72	Z	68994661	ENSGALG000000001864	9	27536544	ENSG000000147894	A
LINGO2	Z	69120285	ENSGALG000000001869	9	27938076	ENSG000000174482	A
CORO2A	Z	70755261	ENSGALG000000001933	9	99926299	ENSG000000106789	A
TBC1D2	Z	70808452	ENSGALG000000001944	9	100001132	ENSG000000095383	A
QSJZ12	Z	70828726	ENSGALG000000001947	9	110669222	ENSG000000070061	A
APTX	Z	70862437	ENSGALG000000001954	9	32962609	ENSG000000137074	A
DNAJA1	Z	70871418	ENSGALG000000023066	9	33015242	ENSG000000086061	A
SMU1	Z	70885347	ENSGALG000000002014	9	33031850	ENSG000000122692	A
HEMGN	Z	70934253	ENSGALG0000000023061	9	99728894	ENSG000000136929	A
SPINK4	Z	70934511	ENSGALG0000000021842	9	33208363	ENSG000000122711	A
FOXE1	Z	70956493		9	99655358	ENSG000000178919	A
XPA	Z	71008924	ENSGALG0000000023059	9	99477013	ENSG000000136936	A
NCBP1	Z	71018547	ENSGALG000000002087	9	99435526	ENSG000000136937	A
C9orf97	Z	71049017	ENSGALG000000002110	9	99402183	ENSG000000136925	A
TMOD1	Z	71069570	ENSGALG000000002125	9	99303742	ENSG000000136842	A
TDRD7	Z	71090535	ENSGALG0000000012350	9	99214123	ENSG000000196116	A
IREB1	Z	71253152	ENSGALG000000002162	9	32374618	ENSG000000122729	A
PRR16	Z	71473437	ENSGALG000000002183	5	119827918	ENSG000000184838	A
HSD17B4	Z	71824883	ENSGALG000000002187	5	118816122	ENSG000000133835	A
TFIP8	Z	71895405	ENSGALG000000002196	5	118752897	ENSG000000145779	A
DMXL1	Z	71945413	ENSGALG000000002227	5	118434983	ENSG000000172869	A
DTWD2	Z	72038121	ENSGALG000000002250	5	118203135	ENSG000000169570	A
SEMA6A	Z	72889583	ENSGALG000000002294	5	115807150	ENSG000000092421	A
COMMD10	Z	73086836	ENSGALG000000002308	5	115448622	ENSG000000145781	A
LAEVERIN	Z	73150779	ENSGALG000000002318	5	115326170	ENSG000000172901	A
AP3S1	Z	73181806	ENSGALG000000002341	5	115205518	ENSG000000177879	A
ATG12	Z	73209804	ENSGALG000000002345	5	115193714	ENSG000000145782	A
CD01	Z	73220241	ENSGALG000000002358	5	115168333	ENSG000000129596	A
TICAM2	Z	73269208	ENSGALG0000000021410	5	114942238	ENSG000000134970	A
MARVELD2	Z	73283097	ENSGALG000000002361	5	68746699	ENSG000000152939	A
GTF2H2	Z	73294960	ENSGALG000000002399	5	70366717	ENSG000000145736	A
GTF2H2C	Z	73294961	ENSGALG000000002399	5	68891830	ENSG000000183474	A
SMN2	Z	73311950	ENSGALG000000002430	5	69381106	ENSG000000205571	A
SMN1	Z	73312795	ENSGALG000000002430	5	70256524	ENSG000000172062	A
SERF1B	Z	73317286	ENSGALG0000000021397	5	69356852	ENSG000000205572	A
SERF1A	Z	73317300	ENSGALG0000000021397	5	70232270	ENSG000000172058	A
BDP1	Z	73323283	ENSGALG000000002439	5	70787198	ENSG000000145734	A
MCCC2	Z	73378467	ENSGALG000000002529	5	70918910	ENSG000000131844	A
CARTPT	Z	73421628		5	71050750	ENSG000000164326	A
KCNN2	Z	73547389	ENSGALG000000002539	5	113725565	ENSG000000080709	A
MTAP	Z	80750848	ENSGALG000000008174	9	21792635	ENSG000000099810	A
CDKN2B	Z	80792252		9	21992909	ENSG000000147883	A
B4GALT1	Z	80888067	ENSGALG000000002022	9	33100642	ENSG000000086062	A
TRIM36	Z	80917175	ENSGALG000000008188	5	114488377	ENSG000000152503	A
PGGT1B	Z	80947277	ENSGALG000000008197	5	114575476	ENSG000000164219	A
CCDC112	Z	80983091	ENSGALG0000000023042	5	114630784	ENSG000000164221	A
FEM1C	Z	81059386	ENSGALG000000008204	5	114884507	ENSG000000145780	A
ALDH7A1	Z	81087897	ENSGALG000000008229	5	125905432	ENSG000000164904	A
GRAMD3	Z	81115165	ENSGALG000000008237	5	125878000	ENSG000000155324	A

ZNF608	Z	81788132	ENSGALG00000005016	5	123994027	ENSG00000168916	A	
cZorf12	Z	82097080	ENSGALG00000023041	5	123037225	X12	A	
SRFBP1	Z	83078659	ENSGALG00000005316	5	121325555	ENSG00000151304	A	
LOX	Z	83144006	ENSGALG00000005317	5	121429918	ENSG00000113083	A	
ZNF474	Z	83202672	ENSGALG00000023040	5	121493114	ENSG00000164185	A	
SNCAIP	Z	83268214	ENSGALG00000005330	5	121675719	ENSG000000064692	A	
SNX2	Z	83404634	ENSGALG00000005337	5	122138649	ENSG00000205302	A	
SNX24	Z	83440114	ENSGALG00000018874	5	122209170	ENSG000000064652	A	
PPIC	Z	83517560	ENSGALG00000005346	5	122386979	ENSG00000168938	A	
PRDM6	Z	83595205	ENSGALG00000005351	5	122452715	ENSG000000061455	A	
CEP120	Z	83654557	ENSGALG00000005368	5	122708478	ENSG00000168944	A	
TOMM5	Z	83696982	ENSGALG00000005372	9	37578410	ENSG00000175768	A	
FRMPD1	Z	83717485	ENSGALG00000023036	9	37641052	ENSG00000070601	A	
RG9MTD3	Z	83738618		9	37743802	ENSG00000165275	A	
WDR32	Z	83744490	ENSGALG00000017558	9	37790790	ENSG00000122741	A	
MCART1	Z	83769220		9	37869400	ENSG00000122696	A	
FBXO10	Z	83775680		9	37500899	ENSG00000147912	A	
POLR1E	Z	83778718	ENSGALG00000005395	9	37475945	ENSG00000137054	A	
ZBTB5	Z	83798960	ENSGALG00000005354	9	37428111	ENSG00000168795	A	
GRHRP	Z	83811176	ENSGALG00000005423	9	37412663	ENSG00000137106	A	
ZCCHC7	Z	83829957	ENSGALG00000005433	9	37110469	ENSG00000147905	A	
CBWD1	Z		ENSGALG00000010147	9	111039	ENSG00000147996	A	
DOCK8	Z		ENSGALG00000010156	9	263048	ENSG00000107099	A	
KANK1	Z		ENSGALG00000010158	9	460291	ENSG00000107104	A	
DMRT1	Z		ENSGALG00000010160	9	831690	ENSG00000137090	A	
DMRT3	Z		ENSGALG00000010161	9	966964	ENSG000000064218	A	
RCL1	Z		ENSGALG00000015024	9	4782937	ENSG00000120158	A	
ROD1	Z		ENSGALG00000015669	9	114020536	ENSG00000119314	A	
SUSD1	Z		ENSGALG00000015677	9	113842886	ENSG00000106868	A	
PAX5	Z		ENSGALG00000016431	9	36828539	ENSG00000196092	A	
C9orf68	Z		NM_001031282	9	4578827	ENSG00000106686	A	
AC104113.3	Z		XM_414249	5	60205418	ENSG00000215032	A	
AC012622.6	Z			5	109931539	ENSG00000186952	A	
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AC109486.2-2	Z			5	59819516	ENSG00000152931	A	
AC140134.2-1	Z			5	69424621	ENSG00000179978	A	
BIRC1	Z			5	70300066	ENSG000000081770	A	
C5orf48	Z			5	125995305	ENSG00000196900	A	
C9orf11	Z			9	27274667	ENSG00000120160	A	
DMRTA1	Z			9	22436840	ENSG00000176399	A	
GRP	Z			18	55038380	ENSG00000134443	A	
HEATR7B2	Z			5	41033880	ENSG00000171495	A	
IFNB1	Z			9	21067104	ENSG00000171855	A	
IFNE	Z			9	21471067	ENSG00000184995	A	
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OCLN	Z			5	68823875	ENSG00000197822	A	
TAF9	Z			5	68696327	ENSG000000085231	A	
ZNF169	Z			9	96061399	ENSG00000175787	A	
ZNF72	Z			9	69137176	ENSG00000197550	A	
IFNB	Z	7235572	ENSGALG00000005759				B1	Birds Only?
IFN1A	Z	7241179	ENSGALG00000013245				B1	Birds Only?
PTPRK-like	Z	8769950	ENSGALG00000021355				B1	Birds Only?
cZorf13	Z	8839177					B1	Birds Only?
TAF1C	Z	8854602					B1	Chicken Only?
AVIDIN-like	Z	8903176	ENSGALG00000021848				B1	Birds Only?
AVID	Z	8911953	ENSGALG00000023622				B1	Birds Only?
AVR2	Z	8915587	ENSGALG00000002446				B1	Chicken Only?
also similar to	Z	8931274	ENSGALG00000023622				B1	Birds Only?
also similar to	Z	8931274	ENSGALG00000023622				B1	Birds Only?
cZorf6	Z	9024424	ENSGALG00000021338				B1	Birds Only?
AC104127.2	Z	10789482		5	93515468	ENSG00000218494	B1	
ANKRD13C	Z	29538166	ENSGALG00000011311	1	70500138		B1	Duplicated -- True orth on GGA8
cZorf10	Z	30228735	ENSGALG00000023299				B1	Chicken Only?
cZorf14	Z	31311449					B1	Chicken Only?
cZorf5	Z	32430230	ENSGALG00000020553				B1	Chicken Only?
RFK	Z	34416803	ENSGALG00000000004	9	78190253	ENSG00000135002	B1	
cZorf15	Z	42305380					B1	Chicken Only?
TOPORS	Z	51602367	ENSGALG00000020523	9	32530545	ENSG00000197579	B1	
PHF7-like	Z	56607183	ENSGALG00000005023				B1	Chicken Only?
cZorf17	Z	61052944					B1	No annotated gene -- but possible
CCDC81	Z	64824086					B1	Chicken Only?
TOPORS	Z	66728419	ENSGALG00000020523	9	32530545	ENSG00000197579	B1	
cZorf3	Z	67135866	ENSGALG00000015743				B1	Birds Only?
NPR2	Z	67262210	ENSGALG00000015753	9	35782151	ENSG00000159899	B1	Duplicated -- True orth on GGAZ
FLNC-like	Z	67431089	ENSGALG00000014707				B1	Novel Gene?
FLNC-like	Z	67454863	ENSGALG00000014707				B1	Novel Gene?
FLNC-like	Z	68038980	ENSGALG00000014707				B1	Novel Gene?
HEATR7B2-like	Z	68181694	ENSGALG00000022510				B1	Novel Gene?
HEATR7B2-like	Z	68248604	ENSGALG00000016539				B1	Novel Gene?
HEATR7B2-like	Z	68306886	ENSGALG00000017045				B1	Novel Gene?
HEATR7B2-like	Z	68320942					B1	Novel Gene?
HEATR7B2-like	Z	68342923	ENSGALG00000016539				B1	Novel Gene?
HEATR7B2-like	Z	68353493	ENSGALG00000016305				B1	Novel Gene?
FLNC-like	Z	68416411	ENSGALG00000023076				B1	Novel Gene?
FLNC-like	Z	68481344	ENSGALG00000023076				B1	Novel Gene?
cZorf8	Z	68493506	ENSGALG00000021457				B1	Novel Gene?
cZorf18	Z	68658939					B1	Chicken Only?
FLNC-like	Z	68742706					B1	No annotated gene -- but possible
cZorf9	Z	68877876	ENSGALG00000023074				B1	Novel Gene?
cZorf1	Z	69766395	ENSGALG00000001871				B1	Chicken Only?
D4ST1	Z	70031990		15	38550505		B1	Duplicated -- True orth on GGA5
cZorf7	Z	70612481	ENSGALG00000021452				B1	Diapsids Only?
FLNC-like	Z	71314359	ENSGALG00000021429				B1	Novel Gene?
OCRL	Z	72298698					B1	Duplicated -- True orth on GGA4
ADCY10	Z	73695051	ENSGALG000000002611	1	166045507	ENSG00000143199	B1	Z amplicon gene
ADCY10	Z	73716606	ENSGALG000000002611	1	166045507	ENSG00000143199	B1	Z amplicon gene
ADCY10	Z	73737915	ENSGALG000000002611	1	166045507	ENSG00000143199	B1	Z amplicon gene
ADCY10	Z	73759212	ENSGALG000000002611	1	166045507	ENSG00000143199	B1	Z amplicon gene
ADCY10	Z	73780533	ENSGALG000000002611	1	166045507	ENSG00000143199	B1	Z amplicon gene
ADCY10	Z	73801592	ENSGALG000000002611	1	166045507	ENSG00000143199	B1	Z amplicon gene
MRPL19	Z	73816665		2	75,727,417	ENSG00000115364	B1	Z amplicon gene
C2ORF3	Z	73821257	ENSGALG00000016732	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	73842730		2	75,727,417	ENSG00000115364	B1	Z amplicon gene









MRPL19	Z	80147228	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80150929	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80181531	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80192367	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80196947	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80217077	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80222235	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80226813	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80250734	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80255338	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80287270	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80291820	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80309330	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80313915	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80355939	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80360543	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80390411	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80393145	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80415063	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80419655	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80430628	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80462133	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80466388	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80488687	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80499584	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80504140	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80518080	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80527256	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80531831	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80543073	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80571877	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80576449	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	80587643	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	80598411	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80602984	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	80630068	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	80634594	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
ADCY10	Z	80655525	1	166045507	ENSG000000143199	B1	Z amplicon gene
MRPL19	Z	81483987	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
ADCY10	Z	82277743	1	166045507	ENSG000000143199	B1	Z amplicon gene
RICS	Z	82290979	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82300500	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	82317212	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82345496	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82355806	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82364437	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82371546	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82390060	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82407064	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82427257	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82446643	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82466261	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82483782	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82493698	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82503377	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82511511	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82520810	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82529606	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82536790	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82554915	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82568636	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82577618	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82585000	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82594594	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82602689	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
C2ORF3	Z	82607594	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	82609915	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	82634348	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82640517	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82653492	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	82655818	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	82673865	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82681268	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82699714	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
cZorf16	Z	82717437				B1	Chicken Only?
C2ORF3	Z	82719815	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82729461	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82738576	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82757948	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
MRPL19	Z	82771853	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82779212	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82795822	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82805487	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82816932	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82824290	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82841200	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82851575	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82860120	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82868289	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82894762	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82907839	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82916089	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82923367	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82943759	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	82953224	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	82960479	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	82979734	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	82999486	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
MRPL19	Z	83008961	2	75,727,417	ENSG000000115364	B1	Z amplicon gene
RICS	Z	83016646	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
RICS	Z	83038416	11	128,343,052	ENSG000000134909	B1	Z amplicon gene
C2ORF3	Z	83047878	2	75,742,802	ENSG00000005436	B1	Z amplicon gene
RICS	Z	83066638	11	128,343,052	ENSG000000134909	B1	Z amplicon gene

cZorf4	Z	7025006	ENSGALG00000017527			B2	Lost in Mammals; Present in Birds and Fish
cZorf2	Z	7450248	ENSGALG00000005813			B2	Lost in Mammals; Present in Birds and Fish
SLC16A7-like	Z	26981246	ENSGALG00000015045			B2	Lost in Mammals; Present in Birds and Fish
APH1A	Z	8988105	ENSGALG00000002578	1	148502512	B3a	not ancestrally linked
MRP17	Z	9064611	ENSGALG00000002605	11	6659456	B3a	not ancestrally linked
RLN3	Z	26804237	ENSGALG00000015028	19	13998501	B3a	transposed on in chicken
CFC1	Z	42403097	ENSGALG00000012623	2	130995137	B3a	not ancestrally linked
CNTNAP4	Z	42818176	ENSGALG00000023179	16	74868677	B3a	transposed on in birds
TPP2	Z	44101613	ENSGALG00000015213	14	20568249	B3a	transposed on in chicken
CPLX1	Z	53209391	ENSGALG00000015332	4	768,746	B3a	minor syntenic block
PCGF3	Z	53512279	ENSGALG00000015333	4	689573	B3a	minor syntenic block
CHRN3	Z	53604801	ENSGALG00000015384	8	42,671,719	B3a	minor syntenic block
U632B	Z	53790867	ENSGALG00000015337	2	84902285	B3a	not ancestrally linked
PIGG	Z	54117240	ENSGALG00000015349	4	483010	B3a	minor syntenic block
HOOK3	Z	54269799	ENSGALG00000015390	8	42871190	B3a	minor syntenic block
KCMF1	Z	54317186	ENSGALG00000015391	2	85051727	B3a	not ancestrally linked
FNTA	Z	54384193	ENSGALG00000015397	8	43030599	B3a	minor syntenic block
FUT10	Z	54400778	ENSGALG00000015399	8	33347884	B3a	minor syntenic block
NRG1	Z	54499792	ENSGALG00000015422	8	31617043	B3a	minor syntenic block
LIP1	Z	55070219	ENSGALG00000015425	8	19840870	B3a	minor syntenic block
PSD3	Z	55130416	ENSGALG00000015428	8	18429093	B3a	minor syntenic block
DGKQ	Z	71144055	ENSGALG00000002142	4	942676	B3a	minor syntenic block
GAK	Z		ENSGALG00000015352	4	833,066	B3a	minor syntenic block
TMEM175	Z		ENSGALG00000015368	4	916,260	B3a	minor syntenic block
ATP5I	Z		ENSGALG00000015372	4	656,228	B3a	minor syntenic block
PDE6B	Z		ENSGALG00000015373	4	609,373	B3a	minor syntenic block
IDUA	Z		ENSGALG00000015376	4	970,785	B3a	minor syntenic block
SLC26A1	Z		ENSGALG00000015380	4	962,865	B3a	minor syntenic block
THAP1	Z		ENSGALG00000015385	8	42,810,975	B3a	minor syntenic block
RNF170	Z		ENSGALG00000015386	8	42,825,091	B3a	minor syntenic block
MFS2D7	Z		ENSGALG00000020538	4	665,614	B3a	minor syntenic block
C20orf134	Z	44853870	ENSGALG00000006803	20	31717965	B3b	Mammals not in ancestral configuration
PHF7	Z	64923606	ENSGALG00000015672	3	52419567	B3b	Mammals not in ancestral configuration
PHF7	Z	65712165	ENSGALG00000015643	3	52419567	B3b	Mammals not in ancestral configuration
CBWD5	Z		ENSGALG00000010147	9	69671824	C1	duplicated in mammals
CBWD3	Z		ENSGALG00000010147	9	70046662	C1	duplicated in mammals
CBWD6	Z		ENSGALG00000010147	9	68494376	C1	duplicated in mammals
CBWD7	Z		ENSGALG00000010147	9	42661911	C1	duplicated in mammals
RAP1B	Z			5	75501666	C1	insertion in human intron of sv2c
ZNF782	Z			9	98619094	C1	mammals only
AL353795.13-2				9	35137398	C1	Human Chimpanzee Gorilla Macaque only
AC008869.5				5	37849694	C1	Human Chimpanzee Gorilla only
AC008875.9				5	43050282	C1	Human Chimpanzee Gorilla only
AC020901.8				5	80514754	C1	Human Chimpanzee Gorilla only
AL353732.14				9	21444270	C1	Human Chimpanzee Gorilla only
AC025171.8				5	43077952	C1	Human Chimpanzee Gorilla Orang only
AL365190.16				9	83464846	C1	Human Chimpanzee Gorilla Orang only
AL365202.19-1				9	3442305	C1	Human Chimpanzee Macaque only
AC025178.8-1				9	32184855	C1	Human Chimpanzee Orang only
AL158825.12				9	76709393	C1	Human Chimpanzee Orang only
C9orf107				9	104321715	C1	Human Chimpanzee Orang only
AC009271.7				18	51821842	C1	Human Chimpanzee Orang only
AC138409.1-1				5	34210910	C1	Human Macaque only
AC025181.8-2				5	32245527	C1	Human only
AC008847.7-1				5	64465552	C1	Human only
CR769776.8-1				9	68669831	C1	Human only
C5orf23				5	32824702	C1	Mammal only
AC139792.2				5	34214831	C1	Mammal only
AC138409.1-2				5	34225895	C1	Mammal only
CARD6				5	40877043	C1	Mammal only
C5orf39				5	43075258	C1	Mammal only
CCL28				5	43417357	C1	Mammal only
GAPT				5	57825203	C1	Mammal only
AC094086.2				5	61018466	C1	Mammal only
AC114982.2-1				5	61865238	C1	Mammal only
AC092373.2-2				5	65527873	C1	Mammal only
CCNB1				5	68498669	C1	Mammal only
AC139495.2				5	68964790	C1	Mammal only
AC131392.2				5	69230352	C1	Mammal only
AC139277.2				5	69252309	C1	Mammal only
AC146944.1-2				5	69842535	C1	Mammal only
AC139272.3				5	70106234	C1	Mammal only
AC139834.2				5	70127358	C1	Mammal only
AC145138.2-1				5	70471472	C1	Mammal only
AC093251.2-2				5	75734628	C1	Mammal only
ZBED3				5	76408288	C1	Mammal only
AC026410.5-4				5	79631253	C1	Mammal only
SPZ1				5	79651599	C1	Mammal only
SPATA9				5	95014545	C1	Mammal only
TSLP				5	110435081	C1	Mammal only
FAM170A				5	118993153	C1	Mammal only
INSL6				9	5153793	C1	Mammal only
RLN2				9	5289868	C1	Mammal only
RLN1				9	5324969	C1	Mammal only
IL33				9	6231678	C1	Mammal only
C9orf123				9	7786490	C1	Mammal only
C9orf146				9	13917970	C1	Mammal only
C9orf92				9	16193933	C1	Mammal only
IFNA21				9	21155636	C1	Mammal only
IFNA4				9	21176693	C1	Mammal only
IFNA14				9	21191234	C1	Mammal only
IFNA7				9	21191468	C1	Mammal only
IFNA10				9	21196180	C1	Mammal only
IFNA16				9	21206372	C1	Mammal only
IFNA17				9	21217242	C1	Mammal only
IFNA5				9	21294325	C1	Mammal only
IFNA6				9	21339834	C1	Mammal only
IFNA13				9	21357423	C1	Mammal only
IFNA2				9	21374253	C1	Mammal only
IFNA8				9	21399146	C1	Mammal only
IFNA1				9	21430440	C1	Mammal only
CDKN2A				9	21957751	C1	Mammal only
C9orf134				9	24533227	C1	Mammal only

AL356791.9				9	26056673	ENSG00000196478	C1	Mammal only
AL139008.10-1				9	33607801	ENSG00000205274	C1	Mammal only
AL139008.10-2				9	33619138	ENSG00000183938	C1	Mammal only
AL139008.10-3				9	33628035	ENSG00000178161	C1	Mammal only
ENHO				9	34511042	ENSG00000168913	C1	Mammal only
CCL27				9	34651894	ENSG00000213927	C1	Mammal only
AL162231.20-1				9	34655027	ENSG00000187186	C1	Mammal only
AL162231.20-2				9	34713229	ENSG00000205108	C1	Mammal only
AL162231.20-3				9	34716490	ENSG00000215204	C1	Mammal only
AL162231.20-4				9	34820265	ENSG00000159797	C1	Mammal only
C9orf144				9	34820901	ENSG00000215202	C1	Mammal only
C9orf131				9	35014143	ENSG00000174038	C1	Mammal only
SIT1				9	35639300	ENSG00000137078	C1	Mammal only
CCDC107				9	35648301	ENSG00000159884	C1	Mammal only
C9orf128				9	35808427	ENSG00000204930	C1	Mammal only
HRCT1				9	35896189	ENSG00000196196	C1	Mammal only
OR252				9	35947105	ENSG00000122718	C1	Mammal only
BX255923.13				9	68542665	ENSG00000196400	C1	Mammal only
AL512605.13-2				9	69473030	ENSG00000204778	C1	Mammal only
C9orf57				9	73856119	ENSG00000204669	C1	Mammal only
C9orf40				9	76752371	ENSG00000135045	C1	Mammal only
AL158154.28-2				9	83718172	ENSG00000204562	C1	Mammal only
AL158154.28-1				9	83718273	ENSG00000214931	C1	Mammal only
AL158154.28-3				9	83733218	ENSG00000189357	C1	Mammal only
AL355985.18-2				9	83793507	ENSG00000214929	C1	Mammal only
FAM75B				9	83865480	ENSG00000204561	C1	Mammal only
C9orf153				9	88025001	ENSG00000187753	C1	Mammal only
AL160279.21-1				9	89563922	ENSG00000214888	C1	Mammal only
CTSL3				9	89577650	ENSG00000188029	C1	Mammal only
C9orf79				9	89687592	ENSG00000177992	C1	Mammal only
C9orf47				9	90795598	ENSG00000186354	C1	Mammal only
ANKRD19				9	94611301	ENSG00000218940	C1	Mammal only
ZNF484				9	94648173	ENSG00000127081	C1	Mammal only
FAM120AOS				9	95248604	ENSG00000188938	C1	Mammal only
C9orf130				9	97672387	ENSG00000214847	C1	Mammal only
AL159167.23-1				9	97772706	ENSG00000218011	C1	Mammal only
ZNF510				9	98557968	ENSG000000081386	C1	Mammal only
ZNF782				9	98619094	ENSG00000196597	C1	Mammal only
CYLC2				9	104791360	ENSG00000155833	C1	Mammal only
C9orf152				9	112001662	ENSG00000188959	C1	Mammal only
INSL4				9	5221443	ENSG00000120211	C1	Primate only
C9orf170				9	88953379	ENSG00000204446	C1	Primate only
C9orf118				9	96458174	ENSG00000204343	C1	Primate only
AL354861.11				9	97561303	ENSG00000175611	C1	Primate only
TTC23L				5	34875026	ENSG00000205838	C2	Lost in birds?
UGT3A1				5	35988967	ENSG00000145626	C2	Lost in birds?
UGT3A2				5	36070881	ENSG00000168671	C2	Lost in birds?
C9				5	39320763	ENSG00000113600	C2	Lost in birds?
AC008898.6				5	64022207	ENSG00000145642	C2	Lost in Synapsids?
C9orf46				9	5347973	ENSG00000107020	C2	missing from chicken
DDX58				9	32445300	ENSG00000107201	C2	missing from chicken
CCDC11				18	46007564	ENSG00000172361	C2	missing from chicken
MBD1				18	46049215	ENSG00000141644	C2	missing from chicken
CXXC1				18	46062713	ENSG00000154832	C2	missing from chicken
C18orf24				18	46155390	ENSG00000154839	C2	missing from chicken
MAPK4				18	46340482	ENSG00000141639	C2	missing from chicken
MRO				18	46578572	ENSG00000134042	C2	missing from chicken
ME2	Un_random	27351040	ENSGALG00000022329	18	46659433	ENSG000000082212	C2	missing from chicken
ELAC1				18	46748385	ENSG00000141642	C2	missing from chicken
SMAD4				18	46810611	ENSG00000141646	C2	missing from chicken
MEX3C				18	46954918	ENSG00000176624	C2	missing from chicken
DCC				18	48121156	ENSG00000187323	C2	missing from chicken
MBD2	28?			18	49934573	ENSG00000134046	C2	missing from chicken
POLI				18	50049847	ENSG00000101751	C2	missing from chicken
STARD6				18	50104962	ENSG00000174448	C2	missing from chicken
C18orf54				18	50139169	ENSG00000166845	C2	missing from chicken
C18orf26				18	50409388	ENSG00000178690	C2	missing from chicken
RAB27B				18	50646706	ENSG000000041353	C2	missing from chicken
CCDC68				18	50719792	ENSG00000166510	C2	missing from chicken
OMD				9	94216359	ENSG00000127083	C2	missing from chicken
C9orf156	12			9	99706593	ENSG00000136932	C2	Missing from synapsids
GPR150				5	94981538	ENSG00000178015	C2	moved in chicken
FAM133B	2	22635559	ENSGALG00000009475	5	60706670	ENSG00000183055	C3a	synteny not conserved
AC145146.2-1				5	68825796	ENSG00000205575	C3a	synteny not conserved
PMCHL2	1	57419753	ENSGALG00000012757	5	70707368	ENSG00000169040	C3a	synteny not conserved
AC113404.3	1	37085902	ENSGALG00000009927	5	75501666	ENSG00000176276	C3a	synteny not conserved
AC020937.6	2	106529413	ENSGALG00000015093	5	78331972	ENSG00000214890	C3a	synteny not conserved
NBPF2P				5	85614018	ENSG00000205449	C3a	synteny not conserved
AC092278.3-1				5	99425834	ENSG00000214802	C3a	synteny not conserved
AC010228.8-1	3	64410057	ENSGALG00000014873	5	108414912	ENSG00000176857	C3a	synteny not conserved
ZRSR1	1	125314815	ENSGALG00000016552	5	112255212	ENSG00000212643	C3a	synteny not conserved
TSSK1B				5	112796150	ENSG00000212122	C3a	synteny not conserved
RPS17P2				5	116079834	ENSG00000197575	C3a	synteny not conserved
AC008629.7-1				5	118337159	ENSG00000197744	C3a	synteny not conserved
FTMT				5	121215549	ENSG00000181867	C3a	synteny not conserved
CSNK1G3				5	122875692	ENSG00000151292	C3a	synteny not conserved
PPAPDC2	8	4324081	ENSGALG00000003029	9	4652298	ENSG00000205808	C3a	synteny not conserved
IGHEP2				9	5103549	ENSG00000215285	C3a	synteny not conserved
RANBP6	1	149330116	ENSGALG00000016887	9	6001043	ENSG00000137040	C3a	synteny not conserved
TPD52L3	20	9516727	ENSGALG00000004683	9	6318375	ENSG00000170777	C3a	synteny not conserved
RPS26P3				9	9080876	ENSG00000212829	C3a	synteny not conserved
RRAGA	4			9	19039372	ENSG00000155876	C3a	synteny not conserved
KLHL9	4	3190314	ENSGALG00000005982	9	21319670	ENSG00000198642	C3a	synteny not conserved
FAM166B				9	35551946	ENSG00000215187	C3a	synteny not conserved
EXOSC3	6	5481076	ENSGALG000000002426	9	37770308	ENSG00000107371	C3a	synteny not conserved
ANKRD20A4	1	26091172	ENSGALG00000009104	9	68671801	ENSG00000172014	C3a	synteny not conserved
CCDC29	1	26091172	ENSGALG00000009104	9	68715488	ENSG00000221917	C3a	synteny not conserved
AL445665.20	3	50541007	ENSGALG000000012412	9	68940083	ENSG00000182021	C3a	synteny not conserved
FOXD4L5				9	69465527	ENSG00000204779	C3a	synteny not conserved
FOXD4L4				9	69666443	ENSG00000184659	C3a	synteny not conserved
FOXD4L3				9	70107603	ENSG00000187559	C3a	synteny not conserved
FAM122A	4	4086089	ENSGALG00000006127	9	70584833	ENSG00000187866	C3a	synteny not conserved
C9orf135				9	71625551	ENSG00000204711	C3a	synteny not conserved

CHCHD9	19	4868198	ENSGALG00000002495	9	81196014	ENSG00000186940	C3a	synteny not conserved
CCRK				9	89771183	ENSG00000156345	C3a	synteny not conserved
AL136097.10				9	93979281	ENSG00000214877	C3a	synteny not conserved
FAM22F				9	96120299	ENSG00000130950	C3a	synteny not conserved
FAM22G				9	98721960	ENSG00000188152	C3a	synteny not conserved
HIATL2				9	98751014	ENSG00000196312	C3a	synteny not conserved
ZNF322B				9	98999356	ENSG00000188801	C3a	synteny not conserved
ANP32B	10			9	99785310	ENSG00000136938	C3a	synteny not conserved
ZNF189				9	103200976	ENSG00000136870	C3a	synteny not conserved
PPP3R2				9	103393718	ENSG00000188386	C3a	synteny not conserved
OR13F1				9	106306365	ENSG00000186881	C3a	synteny not conserved
OR13C4				9	106328355	ENSG00000148136	C3a	synteny not conserved
OR13C3				9	106337872	ENSG00000204246	C3a	synteny not conserved
OR13C8				9	106371270	ENSG00000186943	C3a	synteny not conserved
OR13C5				9	106400559	ENSG00000204245	C3a	synteny not conserved
OR13C2				9	106406773	ENSG00000179074	C3a	synteny not conserved
OR13C9				9	106419350	ENSG00000136839	C3a	synteny not conserved
OR13D1				9	106496524	ENSG00000179055	C3a	synteny not conserved
AL359846.11-2				9	106524437	ENSG00000188712	C3a	synteny not conserved
ACTL7B	10			9	110656692	ENSG00000148156	C3a	synteny not conserved
ACTL7A	10			9	110664367	ENSG00000187003	C3a	synteny not conserved
TXNDC8				9	112105622	ENSG00000204193	C3a	synteny not conserved
OR2K2				9	113129584	ENSG00000171133	C3a	synteny not conserved
ZNF483				9	113327260	ENSG00000173258	C3a	synteny not conserved
ACTBL2	5	19700610		5	56813161	ENSG00000169067	C3a	synteny not conserved
KIAA1529	17	7502569	ENSGALG00000003320	9	99040600	ENSG00000197816	C3b	synteny conserved in outgroups
KIAA1529	Un_random	36135993	ENSGALG00000022225	9	99040600	ENSG00000197816	C3b	synteny conserved in outgroups
FOXE1	8	22697482	ENSGALG00000023293	9	99655358	ENSG00000178919	C3b	synteny conserved in outgroups
C9orf29	27	1512096	ENSGALG00000000239	9	113404932	ENSG00000204173	C3b	synteny conserved in outgroups
FHOD3	2	85359668	ENSGALG000000013124	18	32131700	ENSG00000134775	C3b	synteny conserved in outgroups
HIATL1	28			9	96176654	ENSG00000148110	C3b	synteny conserved in outgroups
IFNK	Un_random	24396419	ENSGALG000000015062	9	27514302	ENSG00000147896	C3b	synteny conserved in outgroups
NDUFB6	14	14154940	ENSGALG00000002033	9	32543523	ENSG00000165264	C3b	synteny conserved in outgroups
TAF1L	4	2201431	ENSGALG000000005464	9	32620097	ENSG00000122728	C3b	synteny conserved in outgroups
BAG1	2	87931265	ENSGALG000000013157	9	33244163	ENSG00000107262	C3b	synteny conserved in outgroups
CHMP5	2	87941041	ENSGALG000000013160	9	33255000	ENSG00000008605	C3b	synteny conserved in outgroups
NFX1	2	56511374	ENSGALG000000012482	9	33280510	ENSG000000086102	C3b	synteny conserved in outgroups
ANKRD18B	1	26091172	ENSGALG000000009104	9	33514392	ENSG00000159712	C3b	synteny conserved in outgroups
CCL19	Un_random	17081160	ENSGALG000000005851	9	34679564	ENSG00000172724	C3b	synteny conserved in outgroups
CCL21	Un_random	17081160	ENSGALG000000005851	9	34699002	ENSG00000137077	C3b	synteny conserved in outgroups
RECK	2	57122003	ENSGALG000000012626	9	36026906	ENSG00000122707	C3b	synteny conserved in outgroups
GLIPR2	2	92069763	ENSGALG000000013578	9	36126032	ENSG00000122694	C3b	synteny conserved in outgroups
CCIN	5			9	36159391	ENSG00000185972	C3b	synteny conserved in outgroups
AL356489.14-	1	81183459	ENSGALG000000014750	9	33639098	ENSG00000215206	C3b	synteny conserved in outgroups
PRSS3	1	81258371	ENSGALG000000010231	9	33740515	ENSG000000010438	C3b	synteny conserved in outgroups
AC011139.8	17	7532190	ENSGALG000000003197	18	35168834	ENSG00000175886	C3b	synteny conserved in outgroups