Supplementary Table 4. Each row is an early stop codon characterized in our exome sequencing

Legend: Gene=gene name; Chr=chromosome; pos=position, Constitutive=whether the early stop codon occurred on a constitutively or facultatively expressed exon; Isoform=transcript name affected by early stop codon; AA.pos=the amino acid position at which the stop codon occurs; AA.length=the length of the wild type protein (without the early stop codon); AA.fraction=length of protein with the early stop codon, divided by wild type length; Annotation=mutation leading to early stop codon; Remaining columns: Strains included in present study. A number indicates the length of the protein (1 implies full length, NA=site was not covered).

Gene	Chr	Pos	Constitutive	Isoform	AA.pos	AA.length	AA.fraction	Annotation	22MO	BIK	BZO	DCA	DCP	DDO	DEB	DGA	DIK	DJO	DMZ	DOT	WLA	WMP	BID	KAK	MAM	MBS	MGA	MPB	MPR	TEH	CIM	SEG	SFM	STF
Dnah7b	1	46066948	Constitutive	NM_001160:	31	4068	0.00762045	T|stop_gaine	NA	NA		1	1	NA	1	NA	1	1	1	NA	NA	NA	NA	NA	NA	1	1	NA	1	NA	1	NA	0.0076	NA
4933402D24	1	63768540	Constitutive	NM_001256	10	167	0.05988024	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0599	0.0599	0.0599	0.0599	1	0.0599	1	1	1	1
Bard1	1	71074688	Constitutive	NM_007525.	378	765	0.49411765	T|stop_gaine		1	0.4941	1	1	1	0.4941	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nyap2	1	81269439	Facultative	NM_172849.	701	737	0.95115332	T|stop_gaine		1	1	1	1	1	1	1	1	0.9512	1	1	1	1	1	1	0.9512	1	0.9512	0.9512	0.9512	0.9512	0.9512	1	0.9512	1
Cdh20	1	104994382	Constitutive	NM_011800.	801	801	1	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1
Fcamr	1	130803174	Facultative	NM_001170	55	591	0.09306261	T|stop_gaine		1	0.0931	1	1	1	1	0.0931	1	0.0931	0.0931	NA	1	1	1	0.0931	0.0931	0.0931	0.0931	0.0931	0.0931	0.0931	0.0931	1	1	1	1
Aspm	1	139479675	Facultative	NM_009791.	2100	3122	0.67264574	G|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	0.6726	NA		1	1	1	1	1	1	1	1	1	0.6726	0.6726	0.6726
Xcl1	1	164932919	Constitutive	NM_008510.	51	114	0.44736842	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	0.4474	0.4474	0.4474
Cd247	1	165869096	Facultative	NM_001113	170	177	0.96045198	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	0.9605	0.9605	0.9605
Adamts13	2	26988504	Facultative	NM_001290	629	1028	0.6118677	A|stop_gaine	NA		1	NA	1	NA	NA	1	NA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.6119	0.6119	1
Setx	2	29145968	Facultative	NM_198033.	822	2646	0.3106576	T|stop_gaine		1	NA	NA	1	1	1	NA	NA	1	1	1	1	0.3107		1	1	NA	NA	1	NA	1	1	1	1	1	1
Zbtb6	2	37429838	Constitutive	NM_146253.	26	423	0.06146572	T|stop_gaine		1	NA	1	1	1	NA	1	NA	0.0615	NA	1	NA	NA	NA	1	1	1	NA	1	1	1	1	1	1	1	1
Lrp1b	2	40715492	Facultative	NM_053011.	3671	4599	0.798217	A|stop_gaine		1	NA	NA	1	1	NA	1	NA	0.7982	1	1	1	1	1	1	1	1	1	1	1	1	NA	NA	1	1
Tank	2	61578665	Facultative	NM_011529.	9	448	0.02008929	T|stop_gaine		1	1	1	1	1	NA	1	NA	1	1	NA	1	1	NA	1	1	1	1	1	1	0.0201	0.0201	1	1	1	1
Gm14461	2	78301983	Constitutive	NM_177843.	98	102	0.96078431	T|stop_gaine		1	1	1	1	1	1	NA	1	1	1	1	1	1	NA	1	1	1	1	1	1	0.9608	0.9608	1	0.9608	0.9608	0.9608
Gylt1b	2	92370656	Facultative	NM_001290	3	629	0.00476948	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.0048	0.0048	0.0048
Aqr	2	114105251	Facultative	NM_001290	1384	1400	0.98857143	T|stop_gaine	0.9886		1	1	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.9886	0.9886	0.9886
A430105I19R	2	118762625	Constitutive	NM_001001	10	545	0.01834862	A|stop_gaine	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183	NA		0.0183	1	1	1	1	1	0.0183	0.0183	0.0183	0.0183	0.0183	0.0183
Pla2g4e	2	120244796	Facultative	NM_177845.	38	875	0.04342857	A|stop_gaine	0.0434		1	1	0.0434	1	0.0434	0.0434	NA	1	0.0434	1	0.0434	0.0434	NA		1	1	1	1	1	1	1	1	0.0434	1	1
Zscan29	2	121169995	Facultative	NM_001290	6	307	0.01954397	T|stop_gaine	0.0195	0.0195	0.0195	0.0195	0.0195	0.0195	0.0195	0.0195	1	1	0.0195	0.0195	0.0195	0.0195	NA		1	1	1	0.0195	1	1	1	0.0195	0.0195	1	1
1810024B03	2	127186749	Facultative	NM_198630.	177	200	0.885	A|stop_gaine	NA		1	1	1	1	1	1	NA	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.885	0.885	NA
Kcnip3	2	127510977	Facultative	NM_001291	41	284	0.1443662	A|stop_gaine		1	1	1	NA	0.1444	1	1	NA	1	1	1	1	1	1	1	1	1	0.1444	1	1	1	1	1	1	1
Gm826	2	160327106	Facultative	NM_001033	94	109	0.86238532	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		0.8624	0.8624	0.8624	0.8624	0.8624	0.8624	0.8624	0.8624	0.8624	1	1	1
Helz2	2	181234961	Facultative	NM_183162.	1247	2947	0.42314218	A|stop_gaine		1	1	1	1	1	1	1	NA	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	0.4231	1	1	1
Slc25a31	3	40725045	Constitutive	NM_178386.	314	320	0.98125	T|stop_gaine		1	1	1	1	1	1	1	NA	1	1	1	1	0.9813		1	1	1	1	1	1	1	1	1	0.9813	0.9813	0.9813
Msto1	3	88911819	Constitutive	NM_144898.	194	556	0.34892086	T|stop_gaine		1	1	1	1	1	1	1	NA	NA	1	1	1	1	0.3489	1	1	1	1	1	1	1	1	1	1	1	1
Creb3l4	3	90237847	Constitutive	NM_030080.	333	370	0.9	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	1	1	1	1	1	1	1	1	1	1	1	1
Gabpb2	3	95188798	Facultative	NM_029885.	373	414	0.90096618	A|stop_gaine		1	1	1	1	1	1	1	1	0.901	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Gabpb2	3	95188798	Facultative	NM_172512.	373	414	0.90096618	A|stop_gaine		1	1	1	1	1	1	1	1	0.901	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fcgr1	3	96284284	Constitutive	NM_010186.	403	404	0.99752475	A|stop_gaine		1	0.9975	1	1	1	1	1	1	0.9975	1	1	1	1	1	0.9975	0.9975	0.9975	0.9975	0.9975	0.9975	1	1	1	1	1	1
Bcl2l15	3	103832963	Constitutive	NM_001142	44	165	0.26666667	A|stop_gaine		1	1	0.2667	1	1	1	0.2667	0.2667	0.2667	1	1	1	0.2667	NA		1	1	1	1	1	1	1	1	1	1	1
Bcl2l15	3	103832963	Constitutive	NM_001142	44	167	0.26347305	A|stop_gaine		1	1	0.2635	1	1	1	0.2635	0.2635	0.2635	1	1	1	0.2635	NA		1	1	1	1	1	1	1	1	1	1	1
Ifi44	3	151749343	Facultative	NM_133871.	82	422	0.1943128	A|stop_gaine		1	NA	NA	NA	NA	1	1	NA	NA	NA	1	0.1943	1	NA		1	NA	1	0.1943	1	0.1943	NA	0.1943	1	1	NA
Fam92a	4	12164195	Facultative	NM_026558.	215	355	0.6056338	A|stop_gaine		1	NA	NA	1	1	1	NA	NA	NA	1	NA	1	1	NA		0.6056	0.6056	NA	NA	NA	0.6056	0.6056	0.6056	0.6056	0.6056	0.6056	0.6056
Pou3f2	4	22486848	Constitutive	NM_008899.	428	445	0.96179775	T|stop_gaine		1	1	1	0.9618	1	0.9618	1	0.9618	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Fam166b	4	43427291	Facultative	NM_177377.	344	379	0.90765172	T|stop_gaine	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	NA	0.9077	0.9077	0.9077	0.9077	0.9077	NA		0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077	0.9077
Gm829	4	45718664	Facultative	NM_001033	66	107	0.61682243	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	0.6168	1	NA		0.6168	0.6168	0.6168	0.6168	0.6168	0.6168	1	0.6168	0.6168	0.6168	0.6168	0.6168
Gm829	4	45718664	Facultative	NM_001033	66	107	0.61682243	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	0.6168	0.6168	0.6168
Gm829	4	45718665	Facultative	NM_001033	66	107	0.61682243	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	0.6168	1	NA		0.6168	0.6168	0.6168	0.6168	0.6168	0.6168	1	1	0.6168	0.6168	0.6168	0.6168
Gm829	4	45718665	Facultative	NM_001033	66	107	0.61682243	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	0.6168	0.6168	0.6168
4933430I17R	4	62547736	Constitutive	NM_177607.	488	495	0.98585859	T|stop_gaine		1	1	1	1	1	1	1	NA	NA	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	0.9859	NA	0.9859
Rasef	4	73780335	Facultative	NM_001017	30	627	0.04784689	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	0.0478	1	1	NA	0.0478	0.0478	0.0478	0.0478	0.0478	0.0478	1	0.0478	0.0478	0.0478	0.0478	0.0478
Cntln	4	84957243	Facultative	NM_177385.	305	318	0.9591195	T|stop_gaine		1	NA	NA	1	1	1	1	NA	NA	1	1	1	1	NA		1	NA	1	1	1	1	1	1	1	0.9591	0.9591	0.9591
Slc24a2	4	87176325	Facultative	NM_001110	319	711	0.44866385	C|stop_gaine	NA	0.4487	1	1	1	1	1	1	1	1	NA	NA	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1
Pcsk9	4	106447137	Constitutive	NM_153565.	502	694	0.72334294	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7233	0.7233	0.7233
Zfp69	4	120930379	Facultative	NM_001005	580	587	0.98807496	A|stop_gaine		1	1	1	1	1	1	1	NA	1	1	1	1	1	NA		1	1	1	1	1	1	0.9881	1	1	1	1	1
Iqcc	4	129616471	Facultative	NM_198026.	417	418	0.99760766	T|stop_gaine	0.9976	NA	0.9976	0.9976	0.9976	0.9976	0.9976	NA		0.9976	0.9976	0.9976	0.9976	0.9976	NA		1	1	1	0.9976	1	1	0.9976	0.9976	1	1	1	1
Pla2g2a	4	138832939	Facultative	NM_001082	31	146	0.21232877	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.2123	1	0.2123
Oog3	4	144157879	Constitutive	NM_201258.	496	500	0.992	A|stop_gaine	0.992	1	0.992	0.992	0.992	0.992	NA		1	0.992	0.992	0.992	0.992	0.992	0.992	1	1	0.992	1	1	0.992	1	1	1	0.992	1	1
Psme2	5	71786785	Facultative	NM_011188.	33	475	0.06947368	T|stop_gaine		1	1	1	1	1	1	NA		0.0695	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0695	0.0695	0.0695
Lrrc43	5	123501216	Constitutive	NM_001289	436	657	0.66362253	A|stop_gaine		1	1	NA	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.6636	0.6636	NA
Lrrc43	5	123501216	Constitutive	NM_001033	436	667	0.65367316	A|stop_gaine		1	1	NA	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.6537	0.6537	NA
Lrrc43	5	123501216	Constitutive	NM_001289	436	660	0.66060606	A|stop_gaine		1	1	NA	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.6606	0.6606	NA
Tctn2	5	124624341	Facultative	NM_026486.	543	699	0.77682403	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7768	1	1	1	1	1	1	1	1	1	1	1
C130050O18	5	139415080	Constitutive	NM_177000.	296	356	0.83146067	A|stop_gaine	0.8315	1	1	0.8315	1	1	0.8315	1	1	1	0.8315	1	1	1	0.8315	0.8315	0.8315	0.8315	0.8315	0.8315	0.8315	0.8315	1	1	1	1	1
Amz1	5	140741401	Facultative	NM_173405.	40	502	0.07968128	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	0.0797	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Ankrd61	5	143891015	Constitutive	NM_025732.	381	421	0.90498812	A|stop_gaine		1	1	1	1	NA	1	1	NA	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.905	1	1
Urad	5	147322298	Constitutive	NM_001039	12	178	0.06741573	A|stop_gaine	0.0674	0.0674	0.0674	0.0674	0.0674	1	0.0674	NA	0.0674	0.0674	1	1	0.0674	0.0674	0.0674	0.0674	0.0674	0.0674	1	0.0674	0.0674	0.0674	0.0674	1	1	0.0674
3110062M04	6	34876561	Constitutive	NM_001135	42	157	0.26751592	A|stop_gaine		1	1	1	1	1	1	NA		1	1	1	1	1	NA		1	1	1	1	1	1	1	0.2675	1	1	1
3110062M04	6	34876561	Constitutive	NM_199145.	42	157	0.26751592	A|stop_gaine		1	1	1	1	1	1	NA		1	1	1	1	1	NA		1	1	1	1	1	1	1	0.2675	1	1	1
Tas2r143	6	42400462	Facultative	NM_001001	75	293	0.2559727	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.256	1	1	1	1	1	1	1
Tcaf2	6	42626150	Facultative	NM_146174.	825	919	0.89771491	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	0.8977	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Doxl2	6	48976066	Constitutive	NM_001029	308	723	0.42600277	A|stop_gaine		1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.426	1	1	1
Doxl2	6	48976066	Constitutive	NM_001029	308	723	0.42600277	A|stop_gaine		1	1	1	1	1	1	NA		1	1	NA	1	1	NA		1	1	1	1	1	1	1	0.426	1	1	1
Doxl2	6	48977607	Constitutive	NM_001029	560	723	0.77455048	T|stop_gaine		1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7746	1	1	1
Doxl2	6	48977607	Constitutive	NM_001029	560	723	0.77455048	T|stop_gaine		1	1	1	1	1	1	NA		1	NA	1	NA	1	NA		1	1	1	1	1	1	1	0.7746	1	1	1
Alms1	6	85622327	Constitutive	NM_145223.	1378	3251	0.42386958	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.4239	0.4239	0.4239	0.4239
Alms1	6	85622327	Constitutive	NM_145223.	1378	3251	0.42386958	A|stop_gaine	NA	NA	NA	1	1	1	1	0.4239	0.4239	1	NA	1	1	0.4239		1	1	1	1	1	1	1	1	1	1	1	1
Rad18	6	112664107	Facultative	NM_001167	365	556	0.65647482	T|stop_gaine		1	0.6565	1	0.6565	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1
Il17re	6	113465826	Constitutive	NM_001034	64	436	0.14678899	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.1468	0.1468	0.1468
Il17re	6	113465826	Constitutive	NM_001034	64	436	0.14678899	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.1468	0.1468	0.1468
Il17re	6	113465826	Constitutive	NM_145826.	265	637	0.41601256	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	0.416	0.416	0.416
Il17rc	6	113483061	Facultative	NM_134159.	656	674	0.97329377	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9733	0.9733	0.9733
Il17rc	6	113483061	Facultative	NM_178942.	680	698	0.97421203	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9742	0.9742	0.9742
Cand2	6	115791219	Constitutive	NM_025958.	442	1235	0.35789474	T|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	0.3579	1
Pex26	6	121190114	Facultative	NM_001304	125	166	0.75301205	T|stop_gaine	0.753	0.753	0.753	0.753	0.753	1	0.753	NA		0.753	1	NA	NA	1	NA		1	0.753	1	1	0.753	0.753	0.753	0.753	1	0.753	0.753	0.753
Cd4	6	124870490	Facultative	NM_013488.	237	457	0.51859956	T|stop_gaine		1	1	1	1	0.5186	1	1	NA		1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5186	0.5186	0.5186
Klrb1c	6	128788426	Constitutive	NM_001159	67	271	0.24723247	T|stop_gaine		1	1	1	1	NA	1	0.2472	NA	1	1	1	0.2472	0.2472	NA		0.2472	0.2472	1	1	NA	0.2472	1	0.2472	NA	0.2472	0.2472	0.2472
Klrb1c	6	128788426	Constitutive	NM_008527.	67	268	0.25	T|stop_gaine		1	1	1	1	NA	1	0.25	NA	1	1	1	0.25	0.25	NA		0.25	0.25	1	1	NA	0.25	1	0.25	NA	0.25	0.25	0.25
Tas2r124	6	132755070	Constitutive	NM_207026.	114	309	0.36893204	A|stop_gaine		1	1	1	1	1	1	NA		1	1	1	1	NA	NA		1	0.3689	NA	1	1	1	1	0.3689	1	1	1	1
Tas2r131	6	132957001	Constitutive	NM_207030.	282	310	0.90967742	A|stop_gaine		1	1	NA	1	1	1	NA	NA		1	1	1	1	NA		1	NA	1	1	1	1	1	0.9097	NA		0.9097
Tas2r131	6	132957001	Constitutive	NM_207030.	282	310	0.90967742	A|stop_gaine		1	1	1	1	1	NA	NA		1	NA	1	1	1	0.9097		1	1	1	1	NA	NA	1	1	1	0.9097	NA	0.9097
Tas2r131	6	132957258	Constitutive	NM_207030.	196	310	0.63225807	T|stop_gaine		1	1	1	1	1	1	NA	NA		1	1	1	1	NA		1	1	1	1	NA	1	1	1	1	0.6323	NA	0.6323
Tas2r131	6	132957258	Constitutive	NM_207030.	196	310	0.63225807	T|stop_gaine		1	1	1	1	1	NA	NA		1	1	1	1	0.6323		1	1	1	1	1	NA	NA	1	1	0.6323	NA	0.6323
Gm6614	6	141972303	Constitutive	NM_001081	616	650	0.94769231	A|stop_gaine	0.9477	0.9477	0.9477	0.9477	0.9477	0.9477	0.9477	0.9477	NA		0.9477	0.9477	0.9477	NA	0.9477		1	1	NA	1	1	1	0.9477	0.9477	1	1	1
Zfp606	7	12481034	Facultative	NM_001039	63	87	0.72413793	A|stop_gaine		1	1	1	1	1	1	1	NA	1	1	1	1	1	NA		1	1	1	1	0.7241	1	1	1	1	1	1
Trim28	7	13025327	Facultative	NM_011588.	123	834	0.14748201	T|stop_gaine		1	1	1	1	1	1	1	1	0.1475	1	1	1	1	1	0.1475	1	1	1	1	1	1	1	1	1	1	1
Bsph1	7	13473084	Constitutive	NM_001301	118	123	0.95934959	A|stop_gaine		1	1	1	1	1	1	1	0.9593	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1
Bsph1	7	13473084	Constitutive	NM_001301	118	123	0.95934959	A|stop_gaine		1	1	1	1	1	1	1	1	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1
Bsph1	7	13473084	Constitutive	NM_001033	128	133	0.96240602	A|stop_gaine		1	1	1	1	1	1	1	0.9624	1	1	1	1	1	NA		1	1	1	1	1	1	1	1	1	1	1
Bsph1	7	13473084	Constitutive	NM_001033	128	133	0.96240602	A|stop_gaine		1	1	1	1	1

Sptbn4	7	27364350	Facultative	NM_001199	902	1241	0.7268332	T|stop_gaine	1	0.7268	NA	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	1	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268	0.7268

Gucy1b2		14	62453438	Constitutive	NM_001204	47	809	0.05809642	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	NA	1	1	1	1	1	0.0581	0.0581	1	1	1	1
Akap11		14	78495808	Constitutive	NM_001164	1885	1894	0.99524815	A|stop_gaine	1	1	1	1	1	1	NA	1	NA	1	1	NA	NA	NA	1	1	NA	NA	1	1	1	1	1	0.9952	0.9952	0.9952
Uggt2		14	119019547	Facultative	NM_001081	1092	1504	0.72606383	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.7261	1	1	1
Klhl38		15	58322575	Constitutive	NM_177755.	253	581	0.43545611	A|stop_gaine	1	1	1	1	1	1	1	1	1	1	NA	1	1	NA	1	1	1	0.4355	1	1	1	1	1	1	1	1
Trmt12		15	58874064	Constitutive	NM_026642.	437	446	0.97982063	A|stop_gaine	NA	0.9798	NA	NA	1	0.9798	1	1	1	1	1	1	1	NA	1	1	0.9798	0.9798	0.9798	0.9798	1	1	1	1	1	1
A4galt		15	83228084	Constitutive	NM_001004	166	359	0.46239554	T|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.4624	0.4624	0.4624
A4galt		15	83228084	Constitutive	NM_001170	166	359	0.46239554	T|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.4624	0.4624	0.4624
Upk3a		15	85020612	Constitutive	NM_023478.	187	287	0.65156794	A|stop_gaine	1	1	1	1	0.6516	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.6516	0.6516	1
Kmt2d		15	98865210	Constitutive	NM_001033	253	5588	0.04527559	A|stop_gaine	1	0.0453	1	1	NA	NA	1	NA	NA	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	1
Nmral1		16	4711635	Facultative	NM_001290	256	291	0.87972509	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	NA	1	NA	1	1	1	1	1	1	1	1	1	0.8797	0.8797	0.8797
AU021092		16	5212052	Constitutive	NM_001033	366	385	0.95064935	C|stop_gaine	0.9506	1	1	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	0.9506	0.9506	0.9506
P2rx6		16	17570372	Constitutive	NM_001159	277	362	0.76519337	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	0.7652	1	1	1	1
P2rx6		16	17570372	Constitutive	NM_011028.	304	389	0.781491	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	0.7815	1	1	1	1
Atp13a3		16	30352268	Facultative	NM_001128	320	1249	0.25620496	A|stop_gaine	1	1	1	1	1	NA	1	NA	NA	1	1	1	1	NA	1	0.2562	NA	NA	1	1	1	1	1	NA	1	1
Atp13a3		16	30352268	Facultative	NM_001128	320	1219	0.26251025	A|stop_gaine	1	1	1	1	1	NA	1	NA	NA	1	1	1	1	NA	1	0.2625	NA	NA	1	1	1	1	1	NA	1	1
Muc4		16	32751452	Facultative	NM_080457.	443	3470	0.12766571	G|stop_gaine	NA	1	1	1	1	NA	NA	NA	NA	1	1	1	NA	NA	1	1	NA	1	1	1	1	NA	0.1277	0.1277	0.1277
Muc13		16	33803137	Constitutive	NM_010739.	267	573	0.46596859	A|stop_gaine	NA	0.466	0.466	1	1	1	1	1	1	0.466	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	1	1
Hcls1		16	36957346	Facultative	NM_008225.	276	486	0.56790124	T|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.5679	1	1	1
Adprh		16	38447553	Constitutive	NM_007414.	123	362	0.33977901	C|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	0.3398	NA	0.3398	0.3398	0.3398	0.3398	0.3398	0.3398	0.3398	1	0.3398	0.3398	0.3398	NA
Trmt10c		16	56034064	Constitutive	NM_029092.	403	414	0.97342995	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	0.9734	1	0.9734	1	1	1	1	1	1	1
Zfp213		17	23559533	Constitutive	NM_001033	202	468	0.43162393	A|stop_gaine	1	1	NA	1	1	1	1	NA	NA	1	1	NA	1	NA	0.4316	1	1	1	1	1	0.4316	0.4316	1	1	1	1
Spsb3		17	24886758	Facultative	NM_001163	27	500	0.054	T|stop_gaine	NA	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	0.054	0.054	1
Spsb3		17	24886758	Facultative	NM_001163	27	385	0.07012987	T|stop_gaine	NA	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	0.0701	0.0701	1
Msln|		17	25748040	Constitutive	NM_177822.	673	685	0.98248175	A|stop_gaine	0.9825	1	1	1	0.9825	1	0.9825	1	0.9825	0.9825	1	1	1	1	1	1	0.9825	1	1	1	0.9825	0.9825	0.9825	1	1	1
Zfp952		17	33002921	Facultative	NM_001045	125	504	0.24801587	T|stop_gaine	1	1	1	1	1	1	1	NA	NA	1	NA	NA	1	NA	1	1	1	1	0.248	1	0.248	0.248	1	1	1	1
H2-Eb2		17	34335795	Constitutive	NM_001033	224	287	0.78048781	T|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	NA	1	NA	1	1	0.7805	1	1	1	1	1	1	1	1	1
Btnl1		17	34381212	Constitutive	NM_001111	230	509	0.45186641	T|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	0.4519	0.4519	1	0.4519	1	1	1	1	1	1	NA	
G6b		17	35064374	Constitutive	NM_001033	186	197	0.94416244	T|stop_gaine	1	1	NA	NA	1	1	1	NA	NA	1	1	1	1	NA	1	1	1	1	1	1	0.9442	0.9442	1	1	1	1
9130008F23		17	40880374	Constitutive	NM_027834.	55	181	0.3038674	A|stop_gaine	0.3039	0.3039	0.3039	1	0.3039	0.3039	0.3039	NA	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039	0.3039
Treml1		17	48366733	Constitutive	NM_001289	223	243	0.91769547	A|stop_gaine	1	1	1	1	NA	1	1	1	NA	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.9177	0.9177	1
Kcnh8		17	52978214	Constitutive	NM_001031	1071	1102	0.97186933	T|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	0.9719	1	1	1
L3mbtl4		17	68461559	Facultative	NM_177278.	221	621	0.35587762	T|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.3559	0.3559	1
Arhgap12		18	6057552	Facultative	NM_001039	443	838	0.52863962	A|stop_gaine	1	1	1	1	1	1	NA	1	1	0.5286	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1
Fchsd1		18	37969380	Facultative	NM_175684.	32	688	0.04651163	A|stop_gaine	1	1	1	1	1	1	1	NA	1	0.0465	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	1	1
Arhgef37		18	61504433	Constitutive	NM_177828.	386	676	0.57100592	T|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.571	0.571	0.571
Dym		18	75286762	Constitutive	NM_027727.	668	669	0.99850523	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9985
Gm4952		19	12613496	Constitutive	NM_001013	5	296	0.01689189	T|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	0.0169	1	1	1	1	1
Gm4952		19	12613496	Constitutive	NM_001167	5	296	0.01689189	T|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	NA	1	1	1	1	1	1	0.0169	1	1	1	1	1
Fas		19	34307272	Constitutive	NM_007987.	60	327	0.18348624	T|stop_gaine	1	NA	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.1835	0.1835	NA
Fas		19	34307272	Constitutive	NM_007987.	60	327	0.18348624	T|stop_gaine	1	1	1	1	1	1	1	NA	NA	1	1	0.1835	1	NA	0.1835	0.1835	1	1	1	1	1	1	0.1835	1	1	1
Fas		19	34307272	Constitutive	NM_001146	60	63	0.95238095	T|stop_gaine	1	NA	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.9524	0.9524	NA
Fas		19	34307272	Constitutive	NM_001146	60	63	0.95238095	T|stop_gaine	1	1	1	1	1	1	1	NA	NA	1	1	0.9524	1	NA	0.9524	0.9524	1	1	1	1	1	1	0.9524	1	1	1
Fas		19	34327310	Facultative	NM_007987.	324	327	0.99082569	T|stop_gaine	1	NA	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	1	1	1	1	1	0.9908	0.9908	NA
Fas		19	34327310	Facultative	NM_007987.	324	327	0.99082569	T|stop_gaine	1	1	1	1	1	1	1	NA	NA	1	1	0.9908	1	NA	0.9908	0.9908	1	1	1	1	1	1	0.9908	1	1	1
Mgea5		19	45770141	Constitutive	NM_023799.	369	916	0.40283843	A|stop_gaine	1	1	NA	1	1	1	1	NA	1	1	1	1	1	0.4028	1	1	1	1	1	1	1	1	1	1	1	1
Akap4	X		7077148	Constitutive	NM_009651.	572	849	0.6737338	A|stop_gaine	1	1	1	1	NA	1	NA	NA	1	1	1	NA	1	NA	1	1	1	1	1	1	1	1	1	0.6737	0.6737	NA
Akap4	X		7077148	Constitutive	NM_001042	563	840	0.6702381	A|stop_gaine	1	1	1	1	NA	1	NA	NA	1	1	1	NA	1	NA	1	1	1	1	1	1	1	1	1	0.6702	0.6702	NA
Tbc1d25	X		8175894	Facultative	NM_172478.	34	742	0.0458221	T|stop_gaine	1	1	1	1	1	1	1	0.0458	1	1	1	NA	1	NA	0.0458	NA	0.0458	0.0458	0.0458	0.0458	0.0458	0.0458	0.0458	1	1	1
Rpgr	X		10216687	Facultative	NM_001177	3	1039	0.00288739	A|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0029	1	1	1
Rpgr	X		10216687	Facultative	NM_001177	3	557	0.005386	A|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0054	1	1	1
Rpgr	X		10216687	Facultative	NM_001177	3	258	0.01162791	A|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0116	1	1	1
Rpgr	X		10216687	Facultative	NM_011285.	3	746	0.00402145	A|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.004	1	1	1
Rpgr	X		10216687	Facultative	NM_001177	3	972	0.00308642	A|stop_gaine	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.0031	1	1	1
Gm9112	X		102707029	Constitutive	NM_001177	71	75	0.94666667	T|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	0.9467	1	1	1	1	NA	0.9467	1	1	1
4930519F16	X		103232789	Facultative	NM_029170.	210	231	0.90909091	A|stop_gaine	1	1	1	1	1	1	1	NA	NA	1	1	1	1	NA	1	1	1	NA	1	NA	1	1	NA	0.9091	0.9091	0.9091
Magt1	X		105996954	Constitutive	NM_001190	80	368	0.2173913	T|stop_gaine	NA	NA	1	1	NA	1	NA	NA	NA	1	NA	1	1	NA	NA	1	0.2174	NA	0.2174	NA	1	1	1	NA	1	1
Magt1	X		105996954	Constitutive	NM_025952.	80	368	0.2173913	T|stop_gaine	NA	NA	1	1	NA	1	NA	NA	NA	1	NA	1	1	NA	NA	1	0.2174	NA	0.2174	NA	1	1	1	NA	1	1
Tex13	X		140810141	Constitutive	NM_031381.	161	186	0.8655914	A|stop_gaine	1	1	1	1	1	1	1	NA	1	1	1	1	1	NA	1	1	1	1	0.8656	1	1	1	1	1	1	1