

Table S2

Gene	strand	Switch direction	PAS switch
ENSMUSG00000000305	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000000308	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000000340	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000000378	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000000420	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000000441	-	Upstream switch	Exon to Intron
ENSMUSG00000000486	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000001127	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000001323	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000001420	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000001542	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000001870	+	Upstream switch	Intron to Intron
ENSMUSG00000001983	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000002043	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000002107	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000002345	+	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000002346	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000002781	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000002831	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000003134	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000003813	-	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000003955	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000004071	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000004360	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000005583	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000005667	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000006050	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000006435	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000006462	+	Upstream switch	Exon to Intron
ENSMUSG00000006699	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000006705	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000007097	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000007617	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000007812	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000007950	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000008373	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000008658	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000009927	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000010492	+	Downstream switch	Exon to Exon
ENSMUSG00000011179	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000011831	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000012117	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000012422	+	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000012443	+	Upstream switch	Intron to Intron
ENSMUSG00000012609	+	Downstream switch	Alternative-3UTR to Intron
ENSMUSG00000013495	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000014418	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000014496	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000014498	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000014763	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000015488	+	Upstream switch	Distal-3UTR to Alternative-3UTR

Table S2

ENSMUSG00000015568	+	Downstream switch	Intron to Alternative-3UTR
ENSMUSG00000015597	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000015711	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000016327	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000016534	-	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000017421	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000017781	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000017837	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000018171	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000018189	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000018377	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000018666	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000019179	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000019188	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000019699	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000019732	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000019738	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000019787	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000019795	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000019838	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000019878	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000019883	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000019923	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000020019	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020023	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020059	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000020061	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000020288	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000020326	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000020333	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000020359	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000020389	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020413	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000020420	+	Downstream switch	Intron to Exon
ENSMUSG00000020430	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000020439	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000020458	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000020564	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000020570	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020623	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000020634	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000020696	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020832	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020900	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000020935	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020955	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000020956	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000021027	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000021038	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000021178	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000021271	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000021288	+	Downstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000021458	+	Upstream switch	Intron to Alternative-3UTR

Table S2

ENSMUSG00000021488	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000021519	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000021536	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000021589	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000021622	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000021699	+	Upstream switch	Intron to Intron
ENSMUSG00000021728	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000021779	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000021816	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000021843	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000021910	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000021973	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000021982	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000022019	+	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000022043	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022110	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022200	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000022201	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000022292	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022389	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000022415	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000022441	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022477	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022510	+	Downstream switch	Intron to Alternative-3UTR
ENSMUSG00000022629	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000022668	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022674	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022707	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022771	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000022867	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000022887	-	Upstream switch	Intron to Intron
ENSMUSG00000022962	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000023025	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000023068	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000023307	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000023845	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000023959	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000024038	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000024145	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000024188	+	Downstream switch	Intron to Alternative-3UTR
ENSMUSG00000024222	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000024251	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000024302	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000024353	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000024424	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000024500	-	Downstream switch	Intron to Intron
ENSMUSG00000024507	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000024576	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000024583	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000024603	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000024640	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000024654	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000024695	-	Upstream switch	Intron to Alternative-3UTR

Table S2

ENSMUSG00000024782	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000024924	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000024998	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000025049	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000025227	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000025229	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000025234	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000025283	-	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000025326	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000025421	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000025423	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000025555	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000025607	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000025609	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000025762	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000025781	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000025786	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000025790	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000025812	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000025855	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000025862	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000025893	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000025917	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026000	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000026012	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026031	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000026032	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026096	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000026150	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000026245	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000026259	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000026309	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000026399	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000026427	+	Upstream switch	Alternative-3UTR to Exon
ENSMUSG00000026436	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000026470	+	Upstream switch	Alternative-3UTR to Exon
ENSMUSG00000026504	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026568	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000026571	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026604	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000026626	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000026696	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000026730	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026740	-	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000026743	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026833	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000026853	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026854	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026864	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000026888	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000026904	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000027176	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000027274	-	Downstream switch	Exon to Distal-3UTR

Table S2

ENSMUSG00000027309	-	Upstream switch	Intron to Intron
ENSMUSG00000027361	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000027367	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000027387	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000027536	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000027805	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000027887	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000027895	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000027940	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000027961	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000028035	-	Upstream switch	Intron to Exon
ENSMUSG00000028042	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028062	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028063	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000028106	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000028149	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028161	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028165	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000028188	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028207	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000028229	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028273	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000028293	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028396	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000028398	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028423	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000028676	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000028710	+	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000028756	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028901	-	Upstream switch	Intron to Intron
ENSMUSG00000028962	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000028999	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000029136	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029152	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000029153	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000029156	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029178	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029189	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000029227	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000029238	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029270	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000029309	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000029376	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000029432	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029499	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029610	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029669	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000029705	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000029723	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000029759	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000029763	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000029821	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000029862	+	Upstream switch	Exon to Intron

Table S2

ENSMUSG00000030047	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000030102	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000030201	-	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000030264	+	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000030306	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000030386	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000030447	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000030451	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000030602	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000030610	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000030729	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000030779	+	Downstream switch	Exon to Alternative-3UTR
ENSMUSG00000030801	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000030990	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031027	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000031198	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000031221	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000031229	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000031333	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031367	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031380	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031382	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031453	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031461	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000031508	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000031516	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031536	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031592	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031660	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000031791	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031885	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000031938	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000032042	+	Upstream switch	Intron to Intron
ENSMUSG00000032067	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000032185	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000032314	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000032336	+	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000032380	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000032403	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000032423	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000032479	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000032481	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000032563	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000032743	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000032816	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000032913	-	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000032942	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000033278	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000033306	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000033352	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000033400	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000033713	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000033773	+	Upstream switch	Distal-3UTR to Intron

Table S2

ENSMUSG00000033972	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000034055	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000034066	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000034210	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000034297	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000034377	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000034566	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000034602	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000034667	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000034751	-	Upstream switch	Intron to Intron
ENSMUSG00000034820	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000034898	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000035284	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000035295	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000035606	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000035629	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000035642	-	Upstream switch	Intron to Exon
ENSMUSG00000035934	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000035949	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000036120	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000036167	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000036339	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000036617	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000037062	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000037514	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000037773	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000037845	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000037857	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000037957	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000038005	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000038170	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000038181	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000038201	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000038217	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000038344	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000038506	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000038522	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000038563	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000038582	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000038664	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000038668	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000038733	-	Downstream switch	Intron to Alternative-3UTR
ENSMUSG00000038774	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000038784	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000039031	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000039100	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000039126	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000039285	+	Downstream switch	Intron to Alternative-3UTR
ENSMUSG00000039384	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000039419	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000039699	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000039828	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000039841	-	Downstream switch	Intron to Distal-3UTR

Table S2

ENSMUSG00000039914	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000040006	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000040118	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000040195	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000040270	+	Upstream switch	Intron to Intron
ENSMUSG00000040481	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000040738	-	Upstream switch	Intron to Intron
ENSMUSG00000040740	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000040820	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000040850	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000040875	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000041115	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000041328	-	Upstream switch	Intron to Intron
ENSMUSG00000041607	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000041658	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000041895	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000042035	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000042198	+	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000042225	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000042369	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000042444	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000042508	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000042700	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000042851	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000043079	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000043336	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000043391	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000043639	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000044042	+	Downstream switch	Intron to Intron
ENSMUSG00000044148	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000044934	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000044938	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000045039	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000045098	+	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000045102	-	Upstream switch	Exon to Intron
ENSMUSG00000045103	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000045410	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000045576	+	Upstream switch	Intron to Intron
ENSMUSG00000045624	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000046110	-	Downstream switch	Intron to Intron
ENSMUSG00000046311	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000046314	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000046709	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000046792	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000047022	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000047123	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000047126	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000047419	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000047466	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000047996	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000048271	+	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000049680	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000049755	-	Downstream switch	Exon to Distal-3UTR

Table S2

ENSMUSG00000050174	-	Downstream switch	Intron to Intron
ENSMUSG00000050312	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000050323	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000050471	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000050891	-	Upstream switch	Intron to Intron
ENSMUSG00000051034	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000051747	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000051984	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000052446	+	Upstream switch	Intron to Intron
ENSMUSG00000052459	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000052572	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000052675	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000052915	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000052926	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000052949	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000053091	+	Upstream switch	Intron to Intron
ENSMUSG00000053347	+	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000053768	-	Upstream switch	Alternative-3UTR to Intron
ENSMUSG00000053929	-	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000054206	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000054752	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000054766	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000055027	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000055128	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000055435	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000055489	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000055980	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000056076	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000056121	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000056459	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000056880	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000056900	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000056973	-	Downstream switch	Intron to Intron
ENSMUSG00000057103	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000058013	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000058076	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000058420	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000058589	+	Upstream switch	Intron to Intron
ENSMUSG00000058799	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000058925	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000058966	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000058975	+	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000059714	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000060002	-	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000060152	+	Downstream switch	Alternative-3UTR to Intron
ENSMUSG00000060475	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000060510	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000060512	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000060579	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000060679	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000060743	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000060843	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000060923	-	Upstream switch	Distal-3UTR to Intron

Table S2

ENSMUSG00000061130	+	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000061723	+	Upstream switch	Intron to Intron
ENSMUSG00000061816	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000062078	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000062797	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000062995	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000063077	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000063142	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000063564	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000063972	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000064061	-	Downstream switch	Exon to Distal-3UTR
ENSMUSG00000064127	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000066151	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000066595	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000066613	+	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000067653	-	Upstream switch	Distal-3UTR to Alternative-3UTR
ENSMUSG00000067851	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000067942	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000068205	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000068250	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000068284	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000068551	-	Downstream switch	Alternative-3UTR to Distal-3UTR
ENSMUSG00000068686	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000068823	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000069255	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000069769	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000069808	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000070369	+	Upstream switch	Intron to Intron
ENSMUSG00000070385	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000070498	+	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000070565	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000070939	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000071042	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000071266	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000071267	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000071337	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000071793	-	Upstream switch	Intron to Exon
ENSMUSG00000071796	-	Upstream switch	Intron to Exon
ENSMUSG00000072946	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000073627	+	Downstream switch	Exon to Exon
ENSMUSG00000073643	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000074398	-	Downstream switch	Intron to Exon
ENSMUSG00000074733	-	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000074749	+	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000074968	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000075232	-	Downstream switch	Exon to Intron
ENSMUSG00000078490	+	Downstream switch	Intron to Exon
ENSMUSG00000078772	+	Downstream switch	Intron to Intron
ENSMUSG00000078864	+	Upstream switch	Exon to Intron
ENSMUSG00000079283	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000079557	-	Upstream switch	Alternative-3UTR to Alternative-3UTR
ENSMUSG00000079658	-	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000084799	+	Downstream switch	Intron to Exon

Table S2

ENSMUSG00000084808	-	Upstream switch	Intron to Intron
ENSMUSG00000085022	+	Downstream switch	Intron to Intron
ENSMUSG00000085436	+	Upstream switch	Exon to Intron
ENSMUSG00000085457	+	Upstream switch	Exon to Intron
ENSMUSG00000085622	-	Upstream switch	Intron to Exon
ENSMUSG00000085653	-	Upstream switch	Exon to Intron
ENSMUSG00000085891	+	Downstream switch	Intron to Exon
ENSMUSG00000086429	-	Upstream switch	Intron to Exon
ENSMUSG00000086714	+	Upstream switch	Intron to Intron
ENSMUSG00000086728	-	Downstream switch	Intron to Intron
ENSMUSG00000086915	-	Upstream switch	Intron to Intron
ENSMUSG00000087090	-	Downstream switch	Exon to Exon
ENSMUSG00000087366	+	Downstream switch	Intron to Intron
ENSMUSG00000087380	+	Upstream switch	Exon to Intron
ENSMUSG00000087402	+	Upstream switch	Intron to Intron
ENSMUSG00000087466	+	Upstream switch	Exon to Intron
ENSMUSG00000087543	+	Upstream switch	Exon to Intron
ENSMUSG00000089984	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000090213	-	Upstream switch	Distal-3UTR to Intron
ENSMUSG00000090626	-	Downstream switch	Intron to Alternative-3UTR
ENSMUSG00000090942	+	Upstream switch	Distal-3UTR to Exon
ENSMUSG00000091617	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000092267	+	Downstream switch	Exon to Exon
ENSMUSG00000094724	+	Upstream switch	Intron to Alternative-3UTR
ENSMUSG00000095438	-	Upstream switch	Exon to Intron
ENSMUSG00000096003	-	Downstream switch	Intron to Distal-3UTR
ENSMUSG00000096944	+	Upstream switch	Intron to Exon
ENSMUSG00000097039	+	Upstream switch	Intron to Exon
ENSMUSG00000097059	+	Downstream switch	Exon to Intron
ENSMUSG00000097125	-	Downstream switch	Intron to Exon
ENSMUSG00000097207	+	Upstream switch	Intron to Intron
ENSMUSG00000097214	+	Upstream switch	Exon to Intron
ENSMUSG00000097216	-	Upstream switch	Intron to Exon
ENSMUSG00000097219	-	Upstream switch	Intron to Intron
ENSMUSG00000097350	+	Upstream switch	Exon to Intron
ENSMUSG00000097577	-	Upstream switch	Exon to Intron
ENSMUSG00000099843	-	Upstream switch	Exon to Intron
ENSMUSG00000101102	-	Upstream switch	Intron to Intron
ENSMUSG00000104208	-	Downstream switch	Intron to Exon

Table S2

pvalue (FDR)	logFC	DE
0.010	-2.08	-1
0.001	3.89	1
0.003	-0.65	-1
0.010	-0.20	0
0.006	0.21	0
0.001	0.04	0
0.018	2.12	1
0.002	-1.44	-1
0.002	0.17	0
0.034	2.19	1
0.001	0.11	0
0.006	0.59	0
0.002	3.24	1
0.027	-0.22	0
0.005	-0.28	0
0.005	0.01	0
0.047	0.21	0
0.016	-0.84	0
0.000	-1.09	-1
0.002	1.01	1
0.000	-0.09	0
0.007	-0.40	0
0.005	-0.58	-1
0.003	0.25	0
0.015	-0.11	0
0.011	-0.02	0
0.006	-0.32	0
0.025	-0.16	0
0.000	0.03	0
0.001	1.05	1
0.006	3.10	1
0.007	-0.55	-1
0.015	-0.33	0
0.012	0.01	0
0.012	0.92	1
0.027	-0.86	-1
0.005	-1.13	-1
0.000	0.01	0
0.006	0.33	0
0.000	-1.37	-1
0.003	0.62	1
0.044	0.24	0
0.002	0.22	0
0.015	2.03	1
0.029	1.05	1
0.050	0.09	0
0.016	0.38	0
0.012	1.17	1
0.010	0.40	0
0.028	0.79	1
0.001	-1.03	-1

Table S2

0.028	0.05	0
0.026	2.32	1
0.005	-0.13	0
0.027	3.71	1
0.027	0.04	0
0.000	0.42	0
0.009	-0.17	0
0.016	-0.32	0
0.015	0.44	1
0.005	0.15	0
0.000	-0.49	-1
0.011	0.42	1
0.036	-0.52	-1
0.004	0.02	0
0.011	1.03	1
0.014	-0.59	-1
0.017	-0.06	0
0.003	-0.41	-1
0.002	0.09	0
0.029	0.51	0
0.009	0.43	0
0.001	-0.21	0
0.026	0.37	0
0.049	0.28	0
0.011	-0.48	-1
0.001	-0.18	0
0.009	-0.13	0
0.003	0.24	0
0.001	-1.31	-1
0.000	0.29	0
0.016	-1.25	-1
0.041	2.49	1
0.010	0.51	1
0.047	-0.53	0
0.043	-0.02	0
0.015	-0.02	0
0.027	-0.94	-1
0.009	-0.67	-1
0.015	-0.10	0
0.000	0.24	0
0.004	0.52	1
0.002	0.78	0
0.001	0.14	0
0.048	0.87	1
0.000	-0.01	0
0.000	-0.05	0
0.006	0.00	0
0.001	3.74	1
0.003	-0.27	0
0.035	0.29	0
0.044	-1.24	-1
0.025	-0.13	0
0.043	0.39	1

Table S2

0.007	0.10	0
0.006	0.60	0
0.000	0.82	1
0.011	1.02	1
0.008	-1.05	-1
0.020	0.22	0
0.018	2.52	1
0.009	0.26	0
0.001	-1.00	-1
0.000	-0.45	0
0.008	0.03	0
0.047	-0.03	0
0.029	-0.34	0
0.009	0.30	0
0.021	1.27	1
0.012	-0.70	-1
0.024	-0.03	0
0.006	-0.02	0
0.001	-0.43	-1
0.011	0.07	0
0.005	-2.56	-1
0.006	1.68	1
0.014	-0.21	0
0.000	0.70	1
0.004	1.27	1
0.000	1.20	1
0.015	0.17	0
0.002	1.17	1
0.000	-0.68	-1
0.011	0.40	0
0.035	1.96	1
0.036	0.17	0
0.002	2.32	1
0.022	1.94	1
0.046	0.15	0
0.000	4.26	1
0.021	0.04	0
0.018	-0.56	-1
0.020	-0.43	-1
0.043	0.40	0
0.035	3.00	1
0.022	0.04	0
0.001	0.14	0
0.001	2.82	1
0.022	-0.10	0
0.016	-2.03	-1
0.022	-0.13	0
0.008	0.50	1
0.001	-1.17	-1
0.015	0.22	0
0.009	1.02	1
0.011	1.39	1
0.000	-0.30	0

Table S2

0.000	0.34	0
0.012	0.17	0
0.003	0.99	1
0.028	-0.73	-1
0.002	1.02	1
0.012	0.35	0
0.000	0.60	1
0.049	3.20	1
0.000	0.07	0
0.009	0.49	0
0.012	0.62	1
0.005	0.65	0
0.047	-0.10	0
0.034	0.57	1
0.000	0.58	1
0.030	-0.24	0
0.004	0.13	0
0.001	0.07	0
0.000	-0.55	-1
0.018	2.35	1
0.017	2.20	1
0.034	0.26	0
0.000	-0.11	0
0.002	1.06	1
0.002	1.94	1
0.005	0.88	1
0.002	0.18	0
0.000	0.44	1
0.001	-0.30	0
0.003	-0.45	-1
0.009	-0.36	0
0.003	-0.20	0
0.001	2.01	1
0.005	-0.48	-1
0.025	1.29	1
0.014	-0.10	0
0.000	2.60	1
0.018	-0.88	-1
0.000	-0.60	-1
0.003	0.16	0
0.009	-0.30	0
0.000	0.96	1
0.000	-0.06	0
0.046	1.04	1
0.005	1.58	1
0.019	1.31	1
0.000	-0.27	0
0.002	1.92	1
0.023	0.12	0
0.003	1.57	1
0.019	0.51	0
0.015	1.15	1
0.000	-0.04	0

Table S2

0.000	-0.48	-1
0.000	2.73	1
0.001	0.03	0
0.009	-0.29	0
0.013	2.28	1
0.003	-0.23	0
0.000	-0.71	-1
0.000	0.36	1
0.005	-1.27	-1
0.026	0.57	1
0.000	0.39	0
0.008	-0.99	-1
0.002	0.40	0
0.000	0.51	1
0.009	-0.61	-1
0.004	0.66	1
0.003	-0.47	0
0.014	-0.77	-1
0.009	0.69	1
0.003	-0.41	-1
0.000	-0.37	0
0.005	0.12	0
0.004	0.04	0
0.043	-0.90	-1
0.007	0.21	0
0.015	0.30	0
0.000	-0.04	0
0.000	-0.50	-1
0.047	-0.58	-1
0.006	0.36	0
0.014	0.16	0
0.000	1.80	1
0.002	1.51	1
0.000	0.03	0
0.006	0.26	0
0.001	-2.15	-1
0.033	0.42	0
0.002	1.63	1
0.046	0.79	1
0.010	-0.33	0
0.006	0.41	0
0.025	-0.54	-1
0.001	-0.04	0
0.002	-0.59	-1
0.000	-2.52	-1
0.042	0.00	0
0.019	0.67	1
0.001	-0.91	-1
0.018	1.30	1
0.005	1.40	1
0.001	-0.43	0
0.018	-0.10	0
0.011	-0.05	0

Table S2

0.026	0.60	0
0.015	-0.37	0
0.036	0.23	0
0.024	0.14	0
0.030	0.70	1
0.045	1.21	1
0.040	-0.11	0
0.001	1.50	1
0.009	0.32	0
0.001	0.72	1
0.040	-1.42	-1
0.000	0.98	1
0.001	1.06	1
0.004	0.37	0
0.009	1.99	1
0.004	-1.92	-1
0.046	0.46	1
0.001	-0.53	-1
0.000	-0.31	0
0.000	-1.11	-1
0.000	1.51	1
0.010	-0.86	-1
0.004	0.43	0
0.000	0.05	0
0.001	1.39	1
0.000	-0.27	0
0.029	-0.54	-1
0.000	0.13	0
0.001	-0.36	0
0.026	-0.09	0
0.025	-0.18	0
0.036	-0.26	0
0.046	0.26	0
0.000	0.28	0
0.002	-0.10	0
0.015	-0.63	-1
0.034	-0.22	0
0.011	-0.06	0
0.001	0.02	0
0.003	2.18	1
0.001	-0.87	-1
0.009	-0.42	0
0.000	0.04	0
0.000	0.46	0
0.041	0.62	1
0.035	0.41	0
0.011	1.05	1
0.046	0.36	0
0.001	0.57	1
0.035	-0.27	0
0.004	-1.83	-1
0.003	0.74	0
0.001	1.00	1

Table S2

0.000	0.34	0
0.001	-0.64	-1
0.001	0.39	0
0.000	0.77	1
0.034	2.17	1
0.015	-0.63	-1
0.008	-0.06	0
0.001	0.13	0
0.028	1.05	1
0.046	-0.56	0
0.000	0.98	1
0.025	0.40	0
0.010	2.93	1
0.011	1.64	1
0.009	-1.05	-1
0.001	-0.07	0
0.000	0.53	1
0.028	-0.13	0
0.009	0.38	1
0.036	-0.46	0
0.005	0.05	0
0.014	3.35	1
0.008	0.65	1
0.000	-0.57	-1
0.018	0.84	1
0.001	0.95	1
0.023	-0.09	0
0.000	1.23	1
0.010	0.76	1
0.000	0.36	0
0.000	-1.49	-1
0.026	0.09	0
0.002	0.87	1
0.009	2.40	1
0.029	0.39	0
0.019	-0.07	0
0.000	0.03	0
0.027	-0.21	0
0.004	0.22	0
0.044	-0.01	0
0.012	0.10	0
0.029	-0.58	-1
0.011	-0.44	0
0.009	0.30	0
0.005	0.10	0
0.011	0.22	0
0.008	1.25	1
0.012	0.65	1
0.028	-0.75	-1
0.007	2.40	1
0.025	0.18	0
0.020	0.75	1
0.010	0.07	0

Table S2

0.009	-0.79	-1
0.009	0.48	0
0.035	-0.87	-1
0.000	0.27	0
0.010	-0.18	0
0.001	0.33	0
0.014	2.42	1
0.001	1.38	1
0.017	0.19	0
0.016	0.42	0
0.001	1.65	1
0.012	-1.05	-1
0.002	3.19	1
0.017	-0.35	0
0.008	0.49	0
0.000	1.10	1
0.001	1.20	1
0.011	0.06	0
0.029	0.78	1
0.000	0.92	1
0.001	0.52	1
0.049	0.29	0
0.045	0.17	0
0.008	0.41	0
0.000	0.37	0
0.005	-0.16	0
0.022	0.82	1
0.007	1.30	1
0.023	-0.34	0
0.002	2.17	1
0.006	0.55	1
0.002	-1.05	-1
0.002	0.06	0
0.005	0.15	0
0.018	1.52	1
0.040	-0.61	-1
0.031	0.27	0
0.000	-0.42	0
0.014	-0.05	0
0.028	0.65	0
0.000	0.13	0
0.004	0.23	0
0.011	1.64	1
0.015	0.23	0
0.012	-0.17	0
0.006	1.60	1
0.000	0.67	1
0.009	-1.19	-1
0.000	-0.76	-1
0.000	-1.61	-1
0.001	0.75	1
0.014	0.30	0
0.005	-0.69	-1

Table S2

0.001	-0.02	0
0.007	0.12	0
0.028	-0.07	0
0.001	-0.08	0
0.001	0.92	1
0.002	1.70	1
0.000	-1.17	-1
0.018	0.88	1
0.003	1.71	1
0.004	0.63	1
0.000	0.14	0
0.006	0.86	0
0.004	-0.08	0
0.014	-0.83	-1
0.006	-0.20	0
0.047	-1.59	-1
0.023	-0.85	-1
0.000	-1.11	-1
0.000	0.30	0
0.011	1.08	1
0.007	2.17	1
0.047	0.30	0
0.035	-0.26	0
0.036	-0.54	-1
0.019	-0.06	0
0.001	0.25	0
0.004	-1.33	-1
0.029	0.62	1
0.039	0.19	0
0.029	1.44	1
0.027	-0.24	0
0.022	-0.41	-1
0.027	0.24	0
0.003	0.14	0
0.000	0.12	0
0.000	-0.25	0
0.001	1.30	0
0.017	0.27	0
0.004	0.14	0
0.024	3.18	1
0.006	0.95	1
0.028	-0.39	0
0.007	0.31	0
0.028	-0.33	0
0.000	-0.18	0
0.025	-0.93	-1
0.005	0.15	0
0.009	-2.13	-1
0.035	1.09	1
0.000	-0.18	0
0.004	-0.40	0
0.006	0.78	1
0.003	0.08	0

Table S2

0.003	-0.33	0
0.015	-0.56	-1
0.000	-1.39	-1
0.000	0.37	0
0.001	0.21	0
0.037	1.92	1
0.009	-0.20	0
0.003	0.29	0
0.025	1.29	1
0.011	1.54	1
0.010	0.12	0
0.017	0.33	0
0.003	0.48	0
0.014	2.30	1
0.046	1.70	1
0.012	-1.40	-1
0.018	-0.50	0
0.012	0.97	1
0.024	0.37	0
0.011	1.10	1
0.017	-0.19	0
0.045	1.65	1
0.020	0.85	1
0.002	-1.98	-1
0.000	0.44	0
0.000	1.06	1
0.006	0.48	0
0.037	-0.26	0
0.040	-0.08	0
0.003	1.03	0
0.048	0.99	1
0.001	1.31	1
0.007	-0.08	0
0.011	-1.06	-1
0.000	1.13	1
0.000	0.58	0
0.026	0.86	1
0.001	0.83	1
0.001	0.08	0
0.022	0.59	0
0.009	0.96	1
0.006	-0.72	-1
0.001	2.17	1
0.012	-0.60	-1
0.004	1.74	1
0.038	-1.67	-1
0.008	1.38	1
0.020	0.31	0
0.014	-0.14	0
0.001	0.24	0
0.009	-0.86	-1
0.022	-1.25	-1
0.000	0.01	0

Table S2

0.008	1.06	1
0.016	1.87	1
0.017	0.22	0
0.001	1.78	1
0.025	2.13	1
0.011	1.25	1
0.047	-0.73	0
0.000	2.30	1
0.024	2.62	1
0.000	1.85	1
0.002	0.05	0
0.000	0.85	1
0.028	0.76	0
0.023	-0.50	0
0.023	-0.26	0
0.003	0.98	1
0.001	1.10	1
0.027	0.25	0
0.015	-0.15	0
0.018	0.38	0
0.000	-0.41	0
0.040	1.96	1
0.026	0.44	0
0.007	-0.03	0
0.001	1.39	1
0.008	1.08	1
0.020	0.17	0
0.015	-0.30	0
0.003	2.28	1
0.012	0.80	0
0.001	0.70	1
0.034	0.22	0
0.005	2.01	1
0.008	-0.84	-1
0.014	0.05	0
0.028	0.96	1
0.003	2.31	1
0.004	4.39	1
0.001	0.98	1