

Table S9 Orthologous mapping of core ADME genes between Homo sapiens and Canis lupus familiaris

Gene stable ID	Gene stable ID version	Dog gene stable ID	Dog gene name	Dog homology type	Dog orthology confidence [0 low, 1 high]
ENSG00000132874	ENSG00000132874.15	ENSCAFG00845003594	SLC14A2	ortholog_one2one	0
ENSG00000125255	ENSG00000125255.7	ENSCAFG00845027780	SLC10A2	ortholog_one2one	0
ENSG00000141424	ENSG00000141424.13	ENSCAFG00845004735	SLC39A6	ortholog_one2one	1
ENSG00000236396	ENSG00000236396.8	ENSCAFG00845022564	SLC35G6	ortholog_one2many	0
ENSG00000141437	ENSG00000141437.10	ENSCAFG00845014022	SLC25A51	ortholog_one2many	0
ENSG00000160179	ENSG00000160179.21	ENSCAFG00845030427	ABCG1	ortholog_one2one	1
ENSG00000158296	ENSG00000158296.14	ENSCAFG00845019431	SLC13A3	ortholog_one2one	1
ENSG00000124140	ENSG00000124140.15	ENSCAFG00845017857	SLC12A5	ortholog_one2one	1
ENSG00000101438	ENSG00000101438.4	ENSCAFG00845029663	SLC32A1	ortholog_one2one	1
ENSG00000088386	ENSG00000088386.18	ENSCAFG00845020561	SLC15A1	ortholog_one2one	1
ENSG00000100191	ENSG00000100191.6	ENSCAFG00845027749	SLC5A4	ortholog_one2one	0
ENSG00000100036	ENSG00000100036.13	ENSCAFG00845020907	OSBP2	ortholog_one2one	0
ENSG00000102743	ENSG00000102743.17	ENSCAFG00845024008	SLC25A15	ortholog_one2one	0
ENSG00000147454	ENSG00000147454.14	ENSCAFG00845016130	SLC25A37	ortholog_one2one	1
ENSG00000102078	ENSG00000102078.16	ENSCAFG00845031040	SLC25A14	ortholog_one2one	1
ENSG00000151812	ENSG00000151812.15	ENSCAFG00845017859	SLC35F4	ortholog_one2one	1
ENSG00000140199	ENSG00000140199.13	ENSCAFG00845019004	SLC12A6	ortholog_one2one	1
ENSG00000197506	ENSG00000197506.8	ENSCAFG00845005455	SLC28A3	ortholog_one2one	1
ENSG00000147804	ENSG00000147804.10	ENSCAFG00845010735	SLC39A4	ortholog_one2one	1
ENSG00000165794	ENSG00000165794.10	ENSCAFG00845023563	SLC39A2	ortholog_one2one	1
ENSG00000187553	ENSG00000187553.10	ENSCAFG00845018303	CYP26C1	ortholog_one2one	1
ENSG00000095596	ENSG00000095596.12	ENSCAFG00845018365	CYP26A1	ortholog_one2one	1
ENSG00000140090	ENSG00000140090.18	ENSCAFG00845020809	SLC24A4	ortholog_one2one	1
ENSG00000198569	ENSG00000198569.10	ENSCAFG00845023641	SLC34A3	ortholog_one2one	1
ENSG00000136867	ENSG00000136867.11	ENSCAFG00845007306	SLC31A2	ortholog_one2one	1
ENSG00000151012	ENSG00000151012.13	ENSCAFG00845022942	SLC7A11	ortholog_one2one	1
ENSG00000145283	ENSG00000145283.8	ENSCAFG00845024905	SLC10A6	ortholog_one2one	1
ENSG00000165029	ENSG00000165029.17	ENSCAFG00845010374	ABCA1	ortholog_one2one	1
ENSG00000139514	ENSG00000139514.14	ENSCAFG00845022314	SLC7A1	ortholog_one2one	1
ENSG00000205359	ENSG00000205359.10	ENSCAFG00845001964	SLCO6A1	ortholog_one2one	1
ENSG00000177710	ENSG00000177710.6	ENSCAFG00845022564	SLC35G6	ortholog_one2many	0
ENSG00000164756	ENSG00000164756.13	ENSCAFG00845014466	SLC30A8	ortholog_one2one	1
ENSG00000063127	ENSG00000063127.16	ENSCAFG00845000203	SLC6A16	ortholog_one2one	1
ENSG00000100170	ENSG00000100170.11	ENSCAFG00845027277	SLC5A1	ortholog_one2one	1
ENSG00000066230	ENSG00000066230.12	ENSCAFG00845027782	SLC9A3	ortholog_one2one	1
ENSG00000197818	ENSG00000197818.13	ENSCAFG00845025485	SLC9A8	ortholog_one2one	1

ENSG00000187714	ENSG00000187714.7	ENSCAFG00845021729	SLC18A3	ortholog_one2one	1
ENSG00000188467	ENSG00000188467.11	ENSCAFG00845018687		ortholog_one2one	0
ENSG00000074803	ENSG00000074803.21	ENSCAFG00845019364	SLC12A1	ortholog_one2one	1
ENSG00000196376	ENSG00000196376.11	ENSCAFG00845006677	SLC35F1	ortholog_one2one	1
ENSG00000019186	ENSG00000019186.11	ENSCAFG00845028958	CYP24A1	ortholog_one2one	1
ENSG00000100156	ENSG00000100156.13	ENSCAFG00845025225	SLC16A8	ortholog_one2one	1
ENSG00000099960	ENSG00000099960.14	ENSCAFG00845023288	SLC7A4	ortholog_one2one	0
ENSG00000164175	ENSG00000164175.15	ENSCAFG00845001354	SLC45A2	ortholog_one2one	1
ENSG00000092068	ENSG00000092068.21	ENSCAFG00845003216	SLC7A8	ortholog_one2one	1
ENSG00000188991	ENSG00000188991.3	ENSCAFG00845019545	SLC15A5	ortholog_one2one	1
ENSG00000182747	ENSG00000182747.5	ENSCAFG00845006386	SLC35D3	ortholog_one2one	1
ENSG00000100372	ENSG00000100372.16	ENSCAFG00845019500	SLC25A17	ortholog_one2one	1
ENSG00000183032	ENSG00000183032.12	ENSCAFG00845002697	SLC25A21	ortholog_one2one	1
ENSG00000092096	ENSG00000092096.19	ENSCAFG00845003526	SLC22A17	ortholog_one2one	1
ENSG00000198246	ENSG00000198246.10	ENSCAFG00845004482	SLC29A3	ortholog_one2one	1
ENSG00000197119	ENSG00000197119.13	ENSCAFG00845004256	SLC25A29	ortholog_one2one	0
ENSG00000137266	ENSG00000137266.15	ENSCAFG00845017898	SLC22A23	ortholog_one2one	1
ENSG00000140107	ENSG00000140107.12	ENSCAFG00845004279	SLC25A47	ortholog_one2one	1
ENSG00000181240	ENSG00000181240.14	ENSCAFG00845010943	SLC25A41	ortholog_one2one	1
ENSG00000120329	ENSG00000120329.7	ENSCAFG00845003131	SLC25A2	ortholog_one2one	1
ENSG00000164933	ENSG00000164933.13	ENSCAFG00845008584	SLC25A32	ortholog_one2one	1
ENSG00000153291	ENSG00000153291.16	ENSCAFG00845012991	SLC25A27	ortholog_one2one	1
ENSG00000100075	ENSG00000100075.11	ENSCAFG00845030106	SLC25A1	ortholog_one2one	1
ENSG00000091664	ENSG00000091664.9	ENSCAFG00845023041	SLC17A6	ortholog_one2one	1
ENSG00000168065	ENSG00000168065.16	ENSCAFG00845030346	SLC22A11	ortholog_one2one	1
ENSG00000186335	ENSG00000186335.9	ENSCAFG00845005365	SLC36A2	ortholog_one2one	1
ENSG00000197891	ENSG00000197891.12	ENSCAFG00845030289	SLC22A12	ortholog_one2one	1
ENSG00000145248	ENSG00000145248.7	ENSCAFG00845009926	SLC10A4	ortholog_one2one	1
ENSG00000151475	ENSG00000151475.6	ENSCAFG00845017577	SLC25A31	ortholog_one2one	1
ENSG00000065923	ENSG00000065923.11	ENSCAFG00845029400	SLC9A7	ortholog_one2one	0
ENSG00000172940	ENSG00000172940.13	ENSCAFG00845029932	SLC22A13	ortholog_one2one	1
ENSG00000139508	ENSG00000139508.16	ENSCAFG00845022832	SLC46A3	ortholog_one2one	1
ENSG00000011083	ENSG00000011083.9	ENSCAFG00845008088	SLC6A7	ortholog_one2one	1
ENSG00000173610	ENSG00000173610.13	ENSCAFG00845009792		ortholog_one2one	0
ENSG00000174358	ENSG00000174358.16	ENSCAFG00845026397	SLC6A19	ortholog_one2one	1
ENSG00000164363	ENSG00000164363.10	ENSCAFG00845026287	SLC6A18	ortholog_one2one	1
ENSG00000160190	ENSG00000160190.15	ENSCAFG00845016674	SLC37A1	ortholog_one2one	1
ENSG00000102100	ENSG00000102100.17	ENSCAFG00845030973	SLC35A2	ortholog_one2one	1

ENSG00000176463	ENSG00000176463.14	ENSCAFG00845002864	SLCO3A1	ortholog_one2one	1
ENSG00000105641	ENSG00000105641.4	ENSCAFG00845024501	SLC5A5	ortholog_one2one	1
ENSG00000077713	ENSG00000077713.20	ENSCAFG00845020392	SLC25A43	ortholog_one2one	1
ENSG00000023839	ENSG00000023839.12	ENSCAFG00845030901	ABCC2	ortholog_one2one	1
ENSG00000088836	ENSG00000088836.15	ENSCAFG00845015025	SLC4A11	ortholog_one2one	1
ENSG00000176087	ENSG00000176087.17	ENSCAFG00845001883	SLC35A4	ortholog_one2one	1
ENSG00000182902	ENSG00000182902.15	ENSCAFG00845030703	SLC25A18	ortholog_one2one	1
ENSG00000180432	ENSG00000180432.6	ENSCAFG00845021247	CYP8B1	ortholog_one2one	1
ENSG00000196600	ENSG00000196600.13	ENSCAFG00845025787		ortholog_many2many	0
ENSG00000174032	ENSG00000174032.18	ENSCAFG00845009121	SLC25A30	ortholog_one2one	0
ENSG00000144452	ENSG00000144452.15	ENSCAFG00845020774	ABCA12	ortholog_one2one	1
ENSG00000167910	ENSG00000167910.4	ENSCAFG00845027730	CYP7A1	ortholog_one2one	1
ENSG00000144671	ENSG00000144671.11	ENSCAFG00845029969	SLC22A14	ortholog_one2one	1
ENSG00000162976	ENSG00000162976.13	ENSCAFG00845027286	SLC66A3	ortholog_one2one	0
ENSG00000241119	ENSG00000241119.2	ENSCAFG00845024767	UGT1A6	ortholog_one2many	1
ENSG00000112499	ENSG00000112499.13	ENSCAFG00845002163	SLC22A2	ortholog_one2one	1
ENSG00000165349	ENSG00000165349.13	ENSCAFG00845016597	SNX12	ortholog_one2one	1
ENSG00000133460	ENSG00000133460.21	ENSCAFG00845025001	SLC2A11	ortholog_one2one	1
ENSG00000137700	ENSG00000137700.19	ENSCAFG00845000912	SLC37A4	ortholog_one2one	1
ENSG00000126903	ENSG00000126903.17	ENSCAFG00845029316	SLC10A3	ortholog_one2one	1
ENSG00000180251	ENSG00000180251.5	ENSCAFG00845010292	SLC9A4	ortholog_one2one	1
ENSG00000173638	ENSG00000173638.20	ENSCAFG00845023388	SLC19A1	ortholog_one2one	0
ENSG00000157103	ENSG00000157103.13	ENSCAFG00845006668	SLC6A1	ortholog_one2one	1
ENSG00000003137	ENSG00000003137.9	ENSCAFG00845019592	CYP26B1	ortholog_one2one	1
ENSG00000100652	ENSG00000100652.6	ENSCAFG00845004225	SLC10A1	ortholog_one2one	1
ENSG00000111012	ENSG00000111012.12	ENSCAFG00845013886	CYP27B1	ortholog_one2one	1
ENSG00000006071	ENSG00000006071.16	ENSCAFG00845014269	ABCC8	ortholog_one2one	1
ENSG00000183780	ENSG00000183780.13	ENSCAFG00845003804	SLC35F3	ortholog_one2one	1
ENSG00000139974	ENSG00000139974.18	ENSCAFG00845022951	SLC38A6	ortholog_one2one	1
ENSG00000242366	ENSG00000242366.4	ENSCAFG00845024767	UGT1A6	ortholog_one2many	1
ENSG00000244122	ENSG00000244122.3	ENSCAFG00845024767	UGT1A6	ortholog_one2many	1
ENSG00000101276	ENSG00000101276.19	ENSCAFG00845019792	SLC52A3	ortholog_one2one	1
ENSG00000119457	ENSG00000119457.9	ENSCAFG00845006936	SLC46A2	ortholog_one2one	1
ENSG00000165970	ENSG00000165970.12	ENSCAFG00845021856	SLC6A5	ortholog_one2one	1
ENSG00000029364	ENSG00000029364.13	ENSCAFG00845004076	SLC39A9	ortholog_one2one	1
ENSG00000101187	ENSG00000101187.17	ENSCAFG00845017528	SLCO4A1	ortholog_one2one	1
ENSG00000122490	ENSG00000122490.20	ENSCAFG00845000033	SLC66A2	ortholog_one2one	0
ENSG00000013293	ENSG00000013293.6	ENSCAFG00845022955		ortholog_one2one	0

ENSG00000005022	ENSG00000005022.7	ENSCAFG00845020441	SLC25A5	ortholog_one2many	1
ENSG00000005022	ENSG00000005022.7	ENSCAFG00845029063		ortholog_one2many	0
ENSG00000064687	ENSG00000064687.13	ENSCAFG00845013692	ABCA7	ortholog_one2one	1
ENSG00000104154	ENSG00000104154.8	ENSCAFG00845030805	SLC30A4	ortholog_one2one	1
ENSG00000242515	ENSG00000242515.6	ENSCAFG00845024767	UGT1A6	ortholog_one2many	1
ENSG00000172139	ENSG00000172139.15	ENSCAFG00845029039	SLC9C1	ortholog_one2one	1
ENSG00000036565	ENSG00000036565.16	ENSCAFG00845029212	SLC18A1	ortholog_one2one	1
ENSG00000156222	ENSG00000156222.13	ENSCAFG00845003154		ortholog_one2one	0
ENSG00000120519	ENSG00000120519.17	ENSCAFG00845012862	SLC10A7	ortholog_one2one	1
ENSG00000169507	ENSG00000169507.10	ENSCAFG00845015767	SLC38A11	ortholog_one2one	1
ENSG00000125257	ENSG00000125257.17	ENSCAFG00845008054	ABCC4	ortholog_one2one	1
ENSG00000170385	ENSG00000170385.10	ENSCAFG00845003355	SLC30A1	ortholog_one2one	1
ENSG00000155886	ENSG00000155886.13	ENSCAFG00845014662	SLC24A2	ortholog_one2one	1
ENSG00000131269	ENSG00000131269.20	ENSCAFG00845030100	ABCB7	ortholog_one2one	1
ENSG00000125520	ENSG00000125520.15	ENSCAFG00845018815	SLC2A4RG	ortholog_one2one	0
ENSG00000140505	ENSG00000140505.8	ENSCAFG00845017565	CYP1A2	ortholog_one2one	1
ENSG00000197408	ENSG00000197408.11	ENSCAFG00845002728	CYP2B6	ortholog_one2one	0
ENSG00000083807	ENSG00000083807.11	ENSCAFG00845000308	ZBTB45	ortholog_one2one	0
ENSG00000145476	ENSG00000145476.17	ENSCAFG00845019580	CYP4V2	ortholog_one2one	1
ENSG00000255974	ENSG00000255974.9	ENSCAFG00845002826	CYP2A7	ortholog_many2many	0
ENSG00000255974	ENSG00000255974.9	ENSCAFG00845002875	CYP2A13	ortholog_many2many	0
ENSG00000197838	ENSG00000197838.6	ENSCAFG00845002826	CYP2A7	ortholog_many2many	0
ENSG00000197838	ENSG00000197838.6	ENSCAFG00845002875	CYP2A13	ortholog_many2many	0
ENSG00000130649	ENSG00000130649.11	ENSCAFG00845027431	CYP2E1	ortholog_one2one	1
ENSG00000080189	ENSG00000080189.16	ENSCAFG00845018711	SLC35C2	ortholog_one2one	1
ENSG00000021488	ENSG00000021488.14	ENSCAFG00845000428	SLC7A9	ortholog_one2one	1
ENSG00000269743	ENSG00000269743.4	ENSCAFG00845024107	SLC25A53	ortholog_one2one	1
ENSG00000174607	ENSG00000174607.13	ENSCAFG00845028928	UGT8	ortholog_one2one	1
ENSG00000157593	ENSG00000157593.20	ENSCAFG00845011652	SLC35B2	ortholog_one2one	1
ENSG00000155850	ENSG00000155850.10	ENSCAFG00845008861	SLC26A2	ortholog_one2one	1
ENSG00000131183	ENSG00000131183.12	ENSCAFG00845010418	SLC34A1	ortholog_one2one	1
ENSG00000170482	ENSG00000170482.18	ENSCAFG00845000694		ortholog_one2one	0
ENSG00000141469	ENSG00000141469.19	ENSCAFG00845003486	SLC14A1	ortholog_one2one	1
ENSG00000164037	ENSG00000164037.18	ENSCAFG00845026564	SLC9B1	ortholog_one2one	1
ENSG00000155016	ENSG00000155016.19	ENSCAFG00845028935	CYP2U1	ortholog_one2one	0
ENSG00000113073	ENSG00000113073.16	ENSCAFG00845001336	SLC4A9	ortholog_one2one	1
ENSG00000171954	ENSG00000171954.14	ENSCAFG00845016360	CYP4F22	ortholog_one2one	0
ENSG00000198691	ENSG00000198691.14	ENSCAFG00845015579	ABCA4	ortholog_one2one	1

ENSG00000197446	ENSG00000197446.10	ENSCAFG00845002936	CYP2F1	ortholog_one2one	0
ENSG00000146477	ENSG00000146477.7	ENSCAFG00845002183	SLC22A3	ortholog_one2one	1
ENSG00000173930	ENSG00000173930.10	ENSCAFG00845002027	SLCO4C1	ortholog_one2one	1
ENSG00000160870	ENSG00000160870.15	ENSCAFG00845003103	CYP3A26	ortholog_many2many	0
ENSG00000160870	ENSG00000160870.15	ENSCAFG00845023773	CYP3A12	ortholog_many2many	0
ENSG00000160870	ENSG00000160870.15	ENSCAFG00845025330	CYP3A26	ortholog_many2many	0
ENSG00000160870	ENSG00000160870.15	ENSCAFG00845023693		ortholog_many2many	0
ENSG00000160870	ENSG00000160870.15	ENSCAFG00845025449		ortholog_many2many	0
ENSG00000124564	ENSG00000124564.18	ENSCAFG00845024739	SLC17A3	ortholog_one2one	1
ENSG00000089057	ENSG00000089057.16	ENSCAFG00845028487	SLC23A2	ortholog_one2one	1
ENSG00000197901	ENSG00000197901.13	ENSCAFG00845007241	SLC22A6	ortholog_one2one	1
ENSG00000124568	ENSG00000124568.13	ENSCAFG00845024525	SLC17A1	ortholog_one2one	1
ENSG00000184999	ENSG00000184999.14	ENSCAFG00845006977	SLC22A10	ortholog_one2one	1
ENSG00000149742	ENSG00000149742.11	ENSCAFG00845006786	SLC22A9	ortholog_one2many	1
ENSG00000149742	ENSG00000149742.11	ENSCAFG00845007087		ortholog_one2many	0
ENSG00000004846	ENSG00000004846.17	ENSCAFG00845007641	ABCB5	ortholog_one2one	1
ENSG00000148942	ENSG00000148942.16	ENSCAFG00845024860	SLC5A12	ortholog_one2one	1
ENSG00000134538	ENSG00000134538.4	ENSCAFG00845015602	SLCO1B2	ortholog_one2many	1
ENSG00000136868	ENSG00000136868.12	ENSCAFG00845007669	SLC31A1	ortholog_one2one	1
ENSG00000164163	ENSG00000164163.12	ENSCAFG00845011788	ABCE1	ortholog_one2one	1
ENSG00000155465	ENSG00000155465.22	ENSCAFG00845002028	SLC7A7	ortholog_one2one	0
ENSG00000112394	ENSG00000112394.19	ENSCAFG00845016609	SLC16A10	ortholog_one2one	1
ENSG00000004939	ENSG00000004939.16	ENSCAFG00845008600	SLC4A1	ortholog_one2one	1
ENSG00000137968	ENSG00000137968.17	ENSCAFG00845004401	SLC44A5	ortholog_one2one	1
ENSG00000074621	ENSG00000074621.15	ENSCAFG00845026323	SLC24A1	ortholog_one2one	1
ENSG00000036530	ENSG00000036530.10	ENSCAFG00845004031	CYP46A1	ortholog_one2one	1
ENSG00000146233	ENSG00000146233.9	ENSCAFG00845012904	CYP39A1	ortholog_one2one	1
ENSG00000174640	ENSG00000174640.16	ENSCAFG00845030209	SLCO2A1	ortholog_one2one	1
ENSG00000174327	ENSG00000174327.7	ENSCAFG00845017438	SLC16A13	ortholog_one2one	1
ENSG00000132164	ENSG00000132164.11	ENSCAFG00845006781	SLC6A11	ortholog_one2one	1
ENSG00000145832	ENSG00000145832.17	ENSCAFG00845014130	SLC25A48	ortholog_one2one	1
ENSG00000140284	ENSG00000140284.12	ENSCAFG00845023230	SLC27A2	ortholog_one2one	1
ENSG00000022567	ENSG00000022567.11	ENSCAFG00845013083	SLC45A4	ortholog_one2one	1
ENSG00000179520	ENSG00000179520.12	ENSCAFG00845006328	SLC17A8	ortholog_one2one	1
ENSG00000175003	ENSG00000175003.16	ENSCAFG00845002132	SLC22A1	ortholog_one2one	1
ENSG00000154258	ENSG00000154258.17	ENSCAFG00845029565	ABCA9	ortholog_one2one	1
ENSG00000164209	ENSG00000164209.18	ENSCAFG00845003894	SLC25A46	ortholog_one2one	1
ENSG00000259224	ENSG00000259224.3	ENSCAFG00845022564	SLC35G6	ortholog_one2many	1

ENSG00000164729	ENSG00000164729.8	ENSCAFG00845022564	SLC35G6	ortholog_one2many	0
ENSG00000259803	ENSG00000259803.8	ENSCAFG00845002643	SLC22A31	ortholog_one2one	1
ENSG00000110436	ENSG00000110436.14	ENSCAFG00845021493	SLC1A2	ortholog_one2one	1
ENSG00000123643	ENSG00000123643.15	ENSCAFG00845005291	SLC36A1	ortholog_one2one	1
ENSG00000121270	ENSG00000121270.16	ENSCAFG00845004630	ABCC11	ortholog_one2one	1
ENSG00000104635	ENSG00000104635.16	ENSCAFG00845023697	SLC39A14	ortholog_one2one	1
ENSG00000140798	ENSG00000140798.17	ENSCAFG00845004726	ABCC12	ortholog_one2one	1
ENSG00000168671	ENSG00000168671.11	ENSCAFG00845000393	UGT3A2	ortholog_one2one	1
ENSG00000105143	ENSG00000105143.14	ENSCAFG00845019363	SLC1A6	ortholog_one2one	1
ENSG00000163581	ENSG00000163581.15	ENSCAFG00845023320	SLC2A2	ortholog_one2one	1
ENSG00000089060	ENSG00000089060.13	ENSCAFG00845023423	SLC8B1	ortholog_one2one	1
ENSG00000111700	ENSG00000111700.14	ENSCAFG00845015602	SLCO1B2	ortholog_one2many	1
ENSG00000167600	ENSG00000167600.15	ENSCAFG00845002678	CYP2S1	ortholog_one2one	0
ENSG00000101194	ENSG00000101194.19	ENSCAFG00845018620	SLC17A9	ortholog_one2one	1
ENSG00000170615	ENSG00000170615.16	ENSCAFG00845019032	SLC26A5	ortholog_one2one	1
ENSG00000144741	ENSG00000144741.20	ENSCAFG00845011731	SLC25A26	ortholog_one2one	1
ENSG00000197658	ENSG00000197658.10	ENSCAFG00845025787		ortholog_many2many	0
ENSG00000164707	ENSG00000164707.17	ENSCAFG00845008899	SLC13A4	ortholog_one2one	1
ENSG00000163959	ENSG00000163959.11	ENSCAFG00845029919	SLC51A	ortholog_one2one	1
ENSG00000181804	ENSG00000181804.16	ENSCAFG00845029260	SLC9A9	ortholog_one2one	1
ENSG00000172350	ENSG00000172350.11	ENSCAFG00845000412	ABCG4	ortholog_one2one	1
ENSG00000183346	ENSG00000183346.10	ENSCAFG00845003174	CABCOC01	ortholog_one2one	1
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ENSG00000105281	ENSG00000105281.14	ENSCAFG00845003284	SLC1A5	ortholog_one2one	1
ENSG00000138821	ENSG00000138821.15	ENSCAFG00845025480	SLC39A8	ortholog_one2one	1
ENSG00000162753	ENSG00000162753.13	ENSCAFG00845011770	SLC9C2	ortholog_one2one	1
ENSG00000204385	ENSG00000204385.14	ENSCAFG00845013098	SLC44A4	ortholog_one2one	1
ENSG00000186104	ENSG00000186104.12	ENSCAFG00845022374		ortholog_one2many	0
ENSG00000186104	ENSG00000186104.12	ENSCAFG00845022957	CYP2R1	ortholog_one2many	0
ENSG00000064651	ENSG00000064651.15	ENSCAFG00845011539	SLC12A2	ortholog_one2one	1
ENSG00000188338	ENSG00000188338.16	ENSCAFG00845022782	SLC38A3	ortholog_one2one	1
ENSG00000221955	ENSG00000221955.12	ENSCAFG00845027740	SLC12A8	ortholog_one2one	1
ENSG00000050438	ENSG00000050438.18	ENSCAFG00845014661	SLC4A8	ortholog_one2one	1
ENSG00000073067	ENSG00000073067.14	ENSCAFG00845008739	CYP2W1	ortholog_one2one	1
ENSG00000119688	ENSG00000119688.22	ENSCAFG00845024787		ortholog_one2many	0
ENSG00000119688	ENSG00000119688.22	ENSCAFG00845014165	ABCD4	ortholog_one2many	0
ENSG00000142319	ENSG00000142319.20	ENSCAFG00845025384	SLC6A3	ortholog_one2one	1

ENSG00000185803	ENSG00000185803.13	ENSCAFG00845010218	SLC52A2	ortholog_one2many	1
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ENSG00000103257	ENSG00000103257.11	ENSCAFG00845003789	SLC7A5	ortholog_one2one	1
ENSG00000146411	ENSG00000146411.7	ENSCAFG00845004951	SLC2A12	ortholog_one2one	1
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ENSG00000017483	ENSG00000017483.17	ENSCAFG00845030709	SLC38A5	ortholog_one2one	1
ENSG00000164889	ENSG00000164889.16	ENSCAFG00845009099	SLC4A2	ortholog_one2one	1
ENSG00000073734	ENSG00000073734.11	ENSCAFG00845020713	ABCB11	ortholog_one2one	1
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ENSG00000004809	ENSG00000004809.15	ENSCAFG00845013113	SLC22A16	ortholog_one2one	1
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ENSG00000139209	ENSG00000139209.17	ENSCAFG00845026984	SLC38A4	ortholog_one2one	1
ENSG00000185052	ENSG00000185052.14	ENSCAFG00845029352	SLC24A3	ortholog_one2one	1
ENSG00000091138	ENSG00000091138.14	ENSCAFG00845025332	SLC26A3	ortholog_one2one	1
ENSG00000100197	ENSG00000100197.24	ENSCAFG00845014943	CYP2D6	ortholog_one2one	1
ENSG00000160868	ENSG00000160868.17	ENSCAFG00845003103	CYP3A26	ortholog_many2many	0
ENSG00000160868	ENSG00000160868.17	ENSCAFG00845023773	CYP3A12	ortholog_many2many	0
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ENSG00000160868	ENSG00000160868.17	ENSCAFG00845023693		ortholog_many2many	0
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ENSG00000070915	ENSG00000070915.11	ENSCAFG00845003721	SLC12A3	ortholog_one2one	1
ENSG00000113504	ENSG00000113504.22	ENSCAFG00845026600	SLC12A7	ortholog_one2one	1
ENSG00000177058	ENSG00000177058.13	ENSCAFG00845027599	SLC38A9	ortholog_one2one	1
ENSG00000143921	ENSG00000143921.10	ENSCAFG00845025922	ABCG8	ortholog_one2one	1
ENSG00000021461	ENSG00000021461.19	ENSCAFG00845003103	CYP3A26	ortholog_many2many	1
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ENSG00000136856	ENSG00000136856.19	ENSCAFG00845006645	SLC2A8	ortholog_one2one	1
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ENSG00000197106	ENSG00000197106.8	ENSCAFG00845002172	SLC6A17	ortholog_one2one	1
ENSG00000180638	ENSG00000180638.20	ENSCAFG00845016715	SLC47A2	ortholog_one2one	1
ENSG00000137571	ENSG00000137571.12	ENSCAFG00845025087	SLCO5A1	ortholog_one2one	1
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ENSG00000150967	ENSG00000150967.20	ENSCAFG00845020006	ABCB9	ortholog_one2one	1
ENSG00000149452	ENSG00000149452.17	ENSCAFG00845007168	SLC22A8	ortholog_one2one	0
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ENSG00000173208	ENSG00000173208.5	ENSCAFG00845030727	ABCD2	ortholog_one2one	1
ENSG00000115665	ENSG00000115665.10	ENSCAFG00845008947	SLC5A7	ortholog_one2one	0
ENSG00000130304	ENSG00000130304.18	ENSCAFG00845027224	SLC27A1	ortholog_one2one	1
ENSG0000013306	ENSG0000013306.17	ENSCAFG00845013335		ortholog_one2one	0
ENSG00000136052	ENSG00000136052.11	ENSCAFG00845006325	SLC41A2	ortholog_one2one	1
ENSG00000115084	ENSG00000115084.16	ENSCAFG00845006783	SLC35F5	ortholog_one2one	0
ENSG00000225697	ENSG00000225697.14	ENSCAFG00845030951	SLC26A6	ortholog_one2one	1
ENSG00000167972	ENSG00000167972.15	ENSCAFG00845004382	ABCA3	ortholog_one2one	1
ENSG00000180773	ENSG00000180773.16	ENSCAFG00845023100	SLC36A4	ortholog_one2one	1
ENSG00000138459	ENSG00000138459.10	ENSCAFG00845029575	SLC35A5	ortholog_one2one	1
ENSG00000085563	ENSG00000085563.16	ENSCAFG00845007972	ABCB1	ortholog_one2one	1

ENSG00000139370	ENSG00000139370.13	ENSCAFG00845030274	SLC15A4	ortholog_one2one	1
ENSG00000007216	ENSG00000007216.17	ENSCAFG00845007453	SLC13A2	ortholog_one2one	1
ENSG00000138463	ENSG00000138463.10	ENSCAFG00845024853	SLC49A4	ortholog_one2one	1
ENSG00000143570	ENSG00000143570.20	ENSCAFG00845016459	SLC39A1	ortholog_one2one	1
ENSG00000125454	ENSG00000125454.13	ENSCAFG00845027026	SLC25A19	ortholog_one2one	1
ENSG00000010379	ENSG00000010379.17	ENSCAFG00845027058	SLC6A13	ortholog_one2one	1
ENSG00000135776	ENSG00000135776.6	ENSCAFG00845001468	ABCB10	ortholog_one2one	1
ENSG00000111181	ENSG00000111181.14	ENSCAFG00845026822	SLC6A12	ortholog_one2one	1
ENSG00000134955	ENSG00000134955.13	ENSCAFG00845011266	SLC37A2	ortholog_one2one	1
ENSG00000108932	ENSG00000108932.14	ENSCAFG00845029076	SLC16A6	ortholog_one2one	1
ENSG00000154265	ENSG00000154265.17	ENSCAFG00845005345	ABCA5	ortholog_one2one	1
ENSG00000110911	ENSG00000110911.18	ENSCAFG00845015776	SLC11A2	ortholog_one2one	1
ENSG00000183023	ENSG00000183023.20	ENSCAFG00845024998	SLC8A1	ortholog_one2one	1
ENSG00000169359	ENSG00000169359.17	ENSCAFG00845021734	SLC33A1	ortholog_one2one	1
ENSG00000001630	ENSG00000001630.19	ENSCAFG00845012499	CYP51A1	ortholog_one2one	1
ENSG00000163817	ENSG00000163817.18	ENSCAFG00845012394	SLC6A20	ortholog_one2one	1
ENSG00000108576	ENSG00000108576.11	ENSCAFG00845012358	SLC6A4	ortholog_one2one	1
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ENSG00000033867	ENSG00000033867.19	ENSCAFG00845024476	SLC4A7	ortholog_one2one	1
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ENSG00000152683	ENSG00000152683.15	ENSCAFG00845013180	SLC30A6	ortholog_one2one	1
ENSG00000005471	ENSG00000005471.20	ENSCAFG00845007730	ABCB4	ortholog_one2one	1
ENSG00000072041	ENSG00000072041.19	ENSCAFG00845011599	SLC6A15	ortholog_one2one	1
ENSG00000137491	ENSG00000137491.16	ENSCAFG00845012322	SLCO2B1	ortholog_one2one	1
ENSG00000162241	ENSG00000162241.14	ENSCAFG00845024512	SLC25A45	ortholog_one2one	1
ENSG00000114923	ENSG00000114923.18	ENSCAFG00845030591	SLC4A3	ortholog_one2one	1
ENSG00000154025	ENSG00000154025.17	ENSCAFG00845019395	SLC5A10	ortholog_one2one	0
ENSG00000132517	ENSG00000132517.16	ENSCAFG00845010218	SLC52A2	ortholog_one2many	0
ENSG00000133065	ENSG00000133065.12	ENSCAFG00845027441	SLC41A1	ortholog_one2one	1
ENSG00000149150	ENSG00000149150.10	ENSCAFG00845020974	SLC43A1	ortholog_one2one	1
ENSG00000205060	ENSG00000205060.12	ENSCAFG00845014568	SLC35B4	ortholog_one2one	1
ENSG00000155380	ENSG00000155380.14	ENSCAFG00845030832		ortholog_one2many	0
ENSG00000155380	ENSG00000155380.14	ENSCAFG00845006291	SLC16A1	ortholog_one2many	1
ENSG00000085491	ENSG00000085491.18	ENSCAFG00845008970	SLC25A24	ortholog_one2one	1
ENSG00000165915	ENSG00000165915.15	ENSCAFG00845021469	SLC39A13	ortholog_one2one	1
ENSG00000163406	ENSG00000163406.12	ENSCAFG00845022167	SLC15A2	ortholog_one2one	1
ENSG00000075303	ENSG00000075303.14	ENSCAFG00845008642	SLC25A40	ortholog_one2one	1
ENSG00000119004	ENSG00000119004.18	ENSCAFG00845016438	CYP20A1	ortholog_one2one	1

ENSG00000196950	ENSG00000196950.15	ENSCAFG00845020786	SLC39A10	ortholog_one2one	1
ENSG00000162461	ENSG00000162461.9	ENSCAFG00845004977	SLC25A34	ortholog_one2one	1
ENSG00000033050	ENSG00000033050.10	ENSCAFG00845010733	ABCF2	ortholog_one2one	1
ENSG00000146828	ENSG00000146828.19	ENSCAFG00845000776	SLC12A9	ortholog_one2one	1
ENSG00000168003	ENSG00000168003.20	ENSCAFG00845007354	SLC3A2	ortholog_one2one	1
ENSG00000115657	ENSG00000115657.15	ENSCAFG00845029425	ABCB6	ortholog_one2one	1
ENSG00000161204	ENSG00000161204.13	ENSCAFG00845026753	ABCF3	ortholog_one2one	1
ENSG00000117620	ENSG00000117620.16	ENSCAFG00845013522	SLC35A3	ortholog_one2one	1
ENSG00000115840	ENSG00000115840.15	ENSCAFG00845028165	SLC25A12	ortholog_one2one	1
ENSG00000170190	ENSG00000170190.17	ENSCAFG00845027792	SLC16A5	ortholog_one2one	1
ENSG00000135917	ENSG00000135917.17	ENSCAFG00845016955	SLC19A3	ortholog_one2one	1
ENSG00000117479	ENSG00000117479.16	ENSCAFG00845002427	SLC19A2	ortholog_one2one	1
ENSG00000143554	ENSG00000143554.15	ENSCAFG00845001620	SLC27A3	ortholog_one2one	1
ENSG00000115194	ENSG00000115194.12	ENSCAFG00845006769	SLC30A3	ortholog_one2one	1
ENSG00000040487	ENSG00000040487.14	ENSCAFG00845003437	SLC66A1	ortholog_one2one	1
ENSG00000138074	ENSG00000138074.16	ENSCAFG00845005860		ortholog_one2one	0
ENSG00000189339	ENSG00000189339.13	ENSCAFG00845015563	SLC35E2B	ortholog_one2one	1
ENSG00000169241	ENSG00000169241.20	ENSCAFG00845013320	SLC50A1	ortholog_one2one	1
ENSG00000171612	ENSG00000171612.8	ENSCAFG00845028904	SLC25A33	ortholog_one2one	1
ENSG00000188687	ENSG00000188687.19	ENSCAFG00845021043	SLC4A5	ortholog_one2one	1
ENSG0000018280	ENSG0000018280.19	ENSCAFG00845027087	SLC11A1	ortholog_one2one	1
ENSG00000117394	ENSG00000117394.25	ENSCAFG00845015278		ortholog_one2one	0
ENSG00000143036	ENSG00000143036.18	ENSCAFG00845014574	SLC44A3	ortholog_one2one	1
ENSG00000160785	ENSG00000160785.15	ENSCAFG00845009963	SLC25A44	ortholog_one2one	1
ENSG00000115902	ENSG00000115902.12	ENSCAFG00845020925	SLC1A4	ortholog_one2one	1
ENSG00000168679	ENSG00000168679.19	ENSCAFG00845002060	SLC16A4	ortholog_one2one	1
ENSG00000186377	ENSG00000186377.9	ENSCAFG00845016805	CYP4X1	ortholog_one2one	1
ENSG00000138449	ENSG00000138449.12	ENSCAFG00845022980		ortholog_one2one	0
ENSG00000117528	ENSG00000117528.15	ENSCAFG00845014838	ABCD3	ortholog_one2one	1
ENSG00000163393	ENSG00000163393.14	ENSCAFG00845028198	SLC22A15	ortholog_one2one	1

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