

Table S6A: Extracellular - cytokines and growth factors

SEQ_ID	Entrez gene ID	Symbol	Entrez Gene Name	Location	Type	Predicted BL20 expression level	FC					
							FC BLvTBL	FDR BLvsTBL	TBLvTBL24h	FDR TBLvTBL24h	FC TBLvTBL48h	FDR TBLvTBL48h
gi_31342239_ref_NM_175716.2_	319096	XL2L	chemokine (C motif) ligand 2	Extracellular Space	cytokine	L	741.977	0.000	-18.786	0.000	-12.467	0.000
gi_119917127_ref_XM_870373.2_	618042	VGF	VGF nerve growth factor inducible	Extracellular Space	growth factor	M	31.809	0.000	-12.728	0.000	-6.743	0.000
gi_119911540_ref_XM_001253061.1_	786204	CCL1	chemokine (C-C motif) ligand 1	Extracellular Space	cytokine	M	30.930	0.000	-15.202	0.000	-15.172	0.000
gi_167583539_ref_NM_001114506.1_	504507	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13	Extracellular Space	cytokine	N	20.670	0.000	2.146	0.031	1.326	1.211
gi_31342229_ref_NM_174357.2_	281860	IL1RN	interleukin 1 receptor antagonist	Extracellular Space	cytokine	L	17.914	0.000	-2.608	0.000	-1.868	0.002
gi_31343615_ref_NM_175827.2_	327712	CCL5	chemokine (C-C motif) ligand 5	Extracellular Space	cytokine	M	10.841	0.000	-1.524	0.023	-2.809	0.000
gi_114052748_ref_NM_001046551.1_	615107	CXCL10	chemokine (C-X-C motif) ligand 10	Extracellular Space	cytokine	L	7.821	0.000	-7.216	0.000	-8.178	0.000
gi_154152166_ref_NM_001100365.1_	514933	EBI3	Epstein-Barr virus induced 3	Extracellular Space	cytokine	L	6.837	0.000	-1.108	0.671	1.813	0.292
gi_115497115_ref_NM_001076483.1_	617915	ANGPT4	angiopoietin 4	Extracellular Space	growth factor	H	6.317	0.000	-1.951	0.000	-2.488	0.000
gi_119884701_ref_XM_583785.3_	507215	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10	Extracellular Space	cytokine	M	4.526	0.000	2.292	0.015	2.362	0.036
gi_119896170_ref_XM_593584.3_	515549	IFNW1	interferon, omega 1	Extracellular Space	cytokine	L	3.866	0.000	-2.052	0.000	-3.302	0.000
gi_31343249_ref_NM_173924.2_	280827	IL7	interleukin 7	Extracellular Space	cytokine	L	3.741	0.000	-1.078	0.753	-2.570	0.000
gi_76668250_ref_XM_589595.2_	539800	TNFSF4	tumor necrosis factor (ligand) superfamily, member 4	Extracellular Space	cytokine	M	3.633	0.000	-2.115	0.000	-1.930	0.001
gi_31343004_ref_NM_174027.2_	281095	CSF2	colony stimulating factor 2 (granulocyte-macrophage)	Extracellular Space	cytokine	L	3.541	0.000	-3.935	0.000	-3.576	0.000
gi_119911538_ref_XM_001253011.1_	786156	CCL1	chemokine (C-C motif) ligand 1	Extracellular Space	cytokine	H	3.371	0.000	-6.822	0.000	-9.536	0.000
gi_149773587_ref_NM_001099162.1_	616996	CCL22	chemokine (C-C motif) ligand 22	Extracellular Space	cytokine	L	3.144	0.000	-2.312	0.000	-1.853	0.002
gi_118150781_ref_NM_001077828.1_	281239	IGF1	insulin-like growth factor 1 (somatomedin C)	Extracellular Space	growth factor	L	2.780	0.000	1.475	0.726	1.528	0.684
gi_119905043_ref_XM_001251494.1_	783681	JAG1	jagged 1 (Alagille syndrome)	Extracellular Space	growth factor	L	2.457	0.000	1.236	1.257	1.019	1.104
gi_114052243_ref_NM_001046358.1_	533671	CMTM8	CKLF-like MARVEL transmembrane domain containing 8	Extracellular Space	cytokine	H	2.427	0.000	-1.780	0.002	-2.289	0.000
gi_31343250_ref_NM_173925.2_	280828	IL8	interleukin 8	Extracellular Space	cytokine	L	2.216	0.000	-1.141	0.520	1.819	0.275
gi_77736244_ref_NM_001034647.1_	538567	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13	Extracellular Space	cytokine	M	2.077	0.001	-1.465	0.041	-1.767	0.004
gi_119911822_ref_XM_001254761.1_	788103	TNFSF12	tumor necrosis factor (ligand) superfamily, member 12	Extracellular Space	cytokine	H	1.977	0.001	1.082	1.145	1.034	1.157
gi_75812913_ref_NM_001033608.1_	280858	MIF	macrophage migration inhibitory factor (glycosylation-independent)	Extracellular Space	cytokine	VH	1.941	0.001	-2.126	0.000	-2.049	0.000
gi_119887028_ref_XM_592594.3_	514701	FAM3B	family with sequence similarity 3, member B	Extracellular Space	cytokine	N	1.684	0.005	1.487	0.585	1.344	1.116
gi_31341809_ref_NM_181030.2_	282233	FLT3LG	fms-related tyrosine kinase 3 ligand	Extracellular Space	cytokine	H	1.556	0.008	-1.219	0.412	-1.295	0.271
gi_116004250_ref_NM_001077014.1_	767942	GRN	granulin	Extracellular Space	growth factor	H	1.549	0.009	1.967	0.081	2.576	0.018
gi_119908328_ref_XM_001252797.1_	784352	FASLG	Fas ligand (TNF superfamily, member 6)	Extracellular Space	cytokine	H	-2.979	0.048	-1.586	0.015	-1.634	0.012
gi_116004478_ref_NM_001077129.1_	768073	OSGIN1	oxidative stress induced growth inhibitor 1	unknown	growth factor	M	-3.317	0.025	1.022	0.654	1.227	1.263
gi_119908200_ref_XM_613627.3_	534018	LEFTY2	left-right determination factor 2	Extracellular Space	growth factor	M	-3.379	0.018	-1.022	0.854	1.025	1.110
gi_119892499_ref_XR_028517.1_	540517	GDF11	growth differentiation factor 11	Extracellular Space	growth factor	H	-3.429	0.018	-1.141	0.574	1.067	1.232
gi_75832046_ref_NM_173935.2_	280852	MDK	midkine (neurite growth-promoting factor 2)	Extracellular Space	growth factor	H	-3.479	0.013	1.293	1.235	1.662	0.501
gi_119909004_ref_XM_870711.2_	618377	MDK	midkine (neurite growth-promoting factor 2)	Extracellular Space	growth factor	H	-3.567	0.011	1.382	0.952	1.502	0.832
gi_115497151_ref_NM_001076398.1_	615855	NRADD	neurotrophin receptor associated death domain	Extracellular Space	cytokine	H	-3.640	0.010	1.102	1.150	1.400	1.068
gi_114052742_ref_NM_001045877.1_	407216	BMP4	bone morphogenetic protein 4	Extracellular Space	growth factor	H	-3.758	0.009	1.575	0.505	1.952	0.181
gi_119909897_ref_XM_869815.2_	617538	IL17C	interleukin 17C	Extracellular Space	cytokine	M	-3.811	0.008	1.455	0.743	1.847	0.254
gi_119892435_ref_XM_595759.3_	517587	INHBE	inhibin, beta E	Extracellular Space	growth factor	L	-3.836	0.008	1.076	0.918	3.535	0.001
gi_149643014_ref_NM_001098859.1_	407111	FASLG	Fas ligand (TNF superfamily, member 6)	Extracellular Space	cytokine	M	-4.220	0.004	-2.436	0.000	-2.019	0.000
gi_119894894_ref_XM_600015.3_	521748	TNFSF9	tumor necrosis factor (ligand) superfamily, member 9	Extracellular Space	cytokine	H	-4.883	0.001	1.128	1.207	1.796	0.307
gi_134085416_ref_NM_001013401.2_	280845	LTA	lymphotoxin alpha (TNF superfamily, member 1)	Extracellular Space	cytokine	VH	-5.010	0.001	-1.802	0.002	-1.364	0.144
gi_114051352_ref_NM_001046182.1_	514773	SOCS5	suppressor of cytokine signaling 5	Extracellular Space	cytokine	H	-5.138	0.001	1.341	1.104	1.326	1.180
gi_31342941_ref_NM_174055.2_	281160	FGF1	fibroblast growth factor 1 (acidic)	Extracellular Space	growth factor	M	-5.214	0.001	1.329	0.957	1.623	0.552
gi_119910851_ref_XM_602991.3_	524661	FGF21	fibroblast growth factor 21	Extracellular Space	growth factor	M	-5.561	0.000	1.345	0.929	1.701	0.415
gi_77735642_ref_NM_001034345.1_	509167	CCL19	chemokine (C-C motif) ligand 19	Extracellular Space	cytokine	M	-5.654	0.000	2.513	0.005	2.938	0.006
gi_119923438_ref_XM_615898.3_	521961	VAV3	vav 3 guanine nucleotide exchange factor	Extracellular Space	cytokine	VH	-6.007	0.000	2.171	0.027	1.711	0.415
gi_119908015_ref_XM_604649.3_	526285	IL24	interleukin 24	Extracellular Space	cytokine	VH	-6.127	0.000	1.169	1.100	1.042	0.915
gi_139948854_ref_NM_001083706.1_	525931	PDGFD	platelet derived growth factor D	Extracellular Space	growth factor	VH	-8.249	0.000	1.622	0.413	2.979	0.005
gi_119894908_ref_XM_600347.3_	522074	CD70	CD70 molecule	Extracellular Space	cytokine	H	-13.147	0.000	3.857	0.000	8.446	0.000
gi_31342868_ref_NM_174091.2_	281249	IL18	interleukin 18 (interferon-gamma-inducing factor)	Extracellular Space	cytokine	H	-13.668	0.000	3.652	0.000	4.042	0.000
gi_119904450_ref_XM_591585.3_	513836	TNFSF11	tumor necrosis factor (ligand) superfamily, member 11	Extracellular Space	cytokine	H	-22.409	0.000	-1.019	0.692	1.336	1.085
gi_72534795_ref_NM_001031751.1_	282879	HGF	hepatocyte growth factor (hepapoietin A; scatter factor)	Extracellular Space	growth factor	H	-58.668	0.000	-1.340	0.110	-1.401	0.083
gi_41386773_ref_NM_174090.1_	281248	IL15	interleukin 15	Extracellular Space	cytokine	H	-60.142	0.000	1.041	1.014	1.059	1.227

Table S6B: Cell Surface - receptors

SEQ_ID	Entrez gene ID	Symbol	Entrez Gene Name	Location	Type	Predicted BL20 expression level	FC					
							FC BLvTBL	FDR BLvsTBL	TBLvTBL24h	FDR TBLvTBL24h	FC TBLvTBL48h	FDR TBLvTBL48h
gi_119894051_ref_XM_587301.3_	510185	IL2RB	interleukin 2 receptor, beta	Plasma Membrane	transmembrane receptor	M	80.276	0.000	1.023	1.141	1.072	1.277

gi_134085682_ref_NM_001083479.1_	534536	ACVRL1	activin A receptor type II-like 1	Plasma Membrane	kinase	L	38.543	0.000	-1.041	0.905	-1.068	0.869
gi_31342230_ref_NM_174358.2_	281861	IL2RA	interleukin 2 receptor, alpha	Plasma Membrane	transmembrane receptor	L	25.884	0.000	-1.401	0.092	2.023	0.131
gi_31342240_ref_NM_174348.2_	281839	ICAM1	intercellular adhesion molecule 1	Plasma Membrane	transmembrane receptor	H	18.031	0.000	-1.932	0.000	-1.223	0.453
gi_119917021_ref_XM_870302.2_	617967	IL21R	interleukin 21 receptor	Plasma Membrane	transmembrane receptor	M	12.421	0.000	-1.055	0.913	1.166	1.340
gi_166999226_ref_NM_001007810.3_	493645	C5AR1	complement component 5a receptor 1	Plasma Membrane	G-protein coupled recept	H	12.023	0.000	-1.514	0.029	1.006	1.122
gi_119893058_ref_XM_868762.2_	616674	CLEC4A	C-type lectin domain family 4, member A	Plasma Membrane	transmembrane receptor	N	10.246	0.000	3.657	0.000	1.866	0.251
gi_114051118_ref_NM_001046210.1_	515700	IL1R2	interleukin 1 receptor, type II	Plasma Membrane	transmembrane receptor	L	9.818	0.000	2.911	0.001	1.608	0.590
gi_77735630_ref_NM_001034339.1_	508932	IL11RA	interleukin 11 receptor, alpha	Plasma Membrane	transmembrane receptor	M	8.542	0.000	-1.063	0.743	1.012	1.116
gi_156523227_ref_NM_001102558.1_	100124525	CX3CR1	chemokine (C-X3-C motif) receptor 1	Plasma Membrane	G-protein coupled recept	L	8.178	0.000	55.305	0.000	137.187	0.000
gi_62988287_ref_NM_001017937.1_	507837	BAIAP2	BAI1-associated protein 2	Plasma Membrane	kinase	M	7.760	0.000	1.181	1.208	1.899	0.207
gi_31341597_ref_NM_174588.2_	282329	PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa	Plasma Membrane	G-protein coupled recept	N	6.462	0.000	-1.461	0.050	-3.223	0.000
gi_89886438_ref_NM_001039726.1_	281422	PRLR	prolactin receptor	Plasma Membrane	transmembrane receptor	N	6.067	0.000	-2.220	0.000	-4.282	0.000
gi_115496689_ref_NM_001075699.1_	515172	P2RY10	purinergic receptor P2Y, G-protein coupled, 10	Plasma Membrane	G-protein coupled recept	M	5.878	0.000	1.914	0.104	1.921	0.203
gi_115495646_ref_NM_001075139.1_	404058	KLRK1	killer cell lectin-like receptor subfamily K, member 1	Plasma Membrane	transmembrane receptor	M	5.551	0.000	1.339	1.144	1.344	1.234
gi_119888721_ref_XM_612644.3_	540687	GPR3	G protein-coupled receptor 3	Plasma Membrane	G-protein coupled recept	L	4.415	0.000	-3.230	0.000	-5.521	0.000
gi_119903179_ref_XM_871776.2_	520709	IL1RL1	interleukin 1 receptor-like 1	Plasma Membrane	transmembrane receptor	N	4.195	0.000	-2.315	0.000	-3.775	0.000
gi_76626421_ref_XM_599517.2_	521257	HRH2	histamine receptor H2	Plasma Membrane	G-protein coupled recept	L	4.103	0.000	-1.896	0.001	-1.641	0.011
gi_31343037_ref_NM_174014.2_	281058	CD69	CD69 molecule	Plasma Membrane	transmembrane receptor	M	4.063	0.000	-1.724	0.004	-2.905	0.000
gi_119904648_ref_XM_590263.3_	512700	FLT3	frms-related tyrosine kinase 3	Plasma Membrane	kinase	H	3.727	0.000	2.044	0.055	2.633	0.014
gi_31342041_ref_NM_174423.2_	281983	PLAUR	plasminogen activator, urokinase receptor	Plasma Membrane	transmembrane receptor	H	3.707	0.000	-1.666	0.007	-1.539	0.033
gi_31340793_ref_NM_174662.2_	282488	FAS	Fas (TNF receptor superfamily, member 6)	Plasma Membrane	transmembrane receptor	M	3.517	0.000	1.007	1.113	-1.089	0.854
gi_119918814_ref_XM_869491.2_	445416	FZD4	frizzled homolog 4 (Drosophila)	Plasma Membrane	G-protein coupled recept	M	3.502	0.000	1.008	1.091	-2.685	0.000
gi_119889339_ref_XM_613650.3_	353111	NTRK1	neurotrophic tyrosine kinase, receptor, type 1	Plasma Membrane	kinase	L	3.454	0.000	-1.281	0.224	-2.685	0.000
gi_119889854_ref_XM_001253071.1_	784894	TGFBR3	transforming growth factor, beta receptor III	Plasma Membrane	kinase	L	3.377	0.000	5.319	0.000	10.447	0.000
gi_119912530_ref_XM_607489.3_	529049	MRC2	mannose receptor, C type 2	Plasma Membrane	transmembrane receptor	M	3.353	0.000	-2.126	0.000	1.743	0.369
gi_31342610_ref_NM_174197.2_	281534	TLR2	tolllike receptor 2	Plasma Membrane	transmembrane receptor	M	3.246	0.000	2.619	0.004	2.615	0.015
gi_118150987_ref_NM_001077947.1_	522144	GPR77	G protein-coupled receptor 77	Plasma Membrane	G-protein coupled recept	L	3.184	0.000	1.331	0.898	-1.010	0.692
gi_94966784_ref_NM_001040490.1_	338033	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1E	Plasma Membrane	transmembrane receptor	VH	3.062	0.000	-1.794	0.002	-1.251	0.367
gi_119914227_ref_XM_585197.3_	539146	GPR132	G protein-coupled receptor 132	Plasma Membrane	G-protein coupled recept	H	3.039	0.000	-1.007	1.028	1.153	1.330
gi_28603783_ref_NM_176661.1_	338066	CD97	CD97 molecule	Plasma Membrane	G-protein coupled recept	H	3.000	0.000	-1.033	0.930	1.015	1.173
gi_139948963_ref_NM_001083752.1_	540702	C3AR1	complement component 3a receptor 1	Plasma Membrane	G-protein coupled recept	N	2.761	0.000	1.144	1.214	1.811	0.291
gi_76608734_ref_XM_582381.2_	538740	GPR15	G protein-coupled receptor 15	Plasma Membrane	G-protein coupled recept	L	2.612	0.000	4.919	0.000	11.340	0.000
gi_110350680_ref_NM_001011676.2_	497022	CD2	CD2 molecule	Plasma Membrane	transmembrane receptor	L	2.588	0.000	2.912	0.000	4.218	0.000
gi_119903192_ref_XM_590497.3_	407221	IL18R1	interleukin 18 receptor 1	Plasma Membrane	transmembrane receptor	L	2.478	0.000	-2.446	0.000	-2.324	0.000
gi_119907079_ref_XM_591164.3_	513478	IL10RA	interleukin 10 receptor, alpha	Plasma Membrane	transmembrane receptor	M	2.429	0.000	-1.112	0.602	1.218	1.302
gi_119893892_ref_XM_612028.3_	280832	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogen	Plasma Membrane	kinase	N	2.351	0.000	1.445	0.720	6.956	0.000
gi_119892995_ref_XM_607058.3_	536328	LRP6	low density lipoprotein receptor-related protein 6	Plasma Membrane	transmembrane receptor	L	2.267	0.000	-1.015	0.969	-1.091	0.758
gi_119925169_ref_XM_594146.3_	444870	TLR5	tolllike receptor 5	Plasma Membrane	transmembrane receptor	L	2.242	0.000	1.485	0.689	-1.003	1.020
gi_27806448_ref_NM_174162.1_	281439	DAG1	dystroglycan 1 (dystrophin-associated glycoprotein 1)	Plasma Membrane	transmembrane receptor	H	2.210	0.000	-1.750	0.004	-1.143	0.703
gi_117935052_ref_NM_001024930.2_	510668	CCR7	chemokine (C-C motif) receptor 7	Plasma Membrane	G-protein coupled recept	VH	2.134	0.000	-1.981	0.000	-1.794	0.004
gi_119903186_ref_XM_593695.3_	515640	IL1R1	interleukin 1 receptor, type I	Plasma Membrane	transmembrane receptor	VH	2.074	0.000	1.074	1.201	1.104	1.315
gi_114052594_ref_NM_001046316.1_	531137	LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein	Plasma Membrane	transmembrane receptor	VH	2.049	0.001	1.165	1.246	1.209	1.340
gi_119895013_ref_XM_587940.3_	539534	S1PR4	sphingosine-1-phosphate receptor 4	Plasma Membrane	G-protein coupled recept	L	2.017	0.001	-1.238	0.199	-3.049	0.000
gi_119912855_ref_XM_603404.3_	525061	CD300C	CD300c molecule	Plasma Membrane	transmembrane receptor	M	1.980	0.001	-1.071	0.757	1.049	1.123
gi_119879744_ref_XM_613645.3_	540907	EPHB3	EPH receptor B3	Plasma Membrane	kinase	L	1.944	0.001	-1.247	0.346	-1.220	0.420
gi_119902362_ref_XM_001253886.1_	788224	TYRO3	TYRO3 protein tyrosine kinase	Plasma Membrane	kinase	M	1.827	0.002	1.304	1.066	-1.087	0.741
gi_119894537_ref_XM_602621.3_	524299	IL12RB1	interleukin 12 receptor, beta 1	Plasma Membrane	transmembrane receptor	L	1.807	0.002	-2.010	0.000	-2.047	0.000
gi_119915419_ref_XM_001255620.1_	788613	MICB	MHC class I polypeptide-related sequence B	Plasma Membrane	transmembrane receptor	L	1.803	0.003	-2.747	0.000	-1.894	0.002
gi_119890635_ref_XM_581281.3_	505056	GPR35	G protein-coupled receptor 35	Plasma Membrane	G-protein coupled recept	M	1.802	0.002	1.797	0.183	2.359	0.038
gi_77736420_ref_NM_001034738.1_	613482	LTBR4	leukotriene B4 receptor	Plasma Membrane	G-protein coupled recept	H	1.771	0.002	-2.302	0.000	-1.560	0.024
gi_149642840_ref_NM_001099043.1_	528782	TNFRSF4	tumor necrosis factor receptor superfamily, member 4	Plasma Membrane	transmembrane receptor	M	1.760	0.003	-3.008	0.000	-1.701	0.006
gi_119914870_ref_XR_027440.1_	781625	PLXND1	plexin D1	Plasma Membrane	transmembrane receptor	H	1.740	0.003	-1.541	0.023	-1.449	0.068
gi_27806206_ref_NM_174499.1_	282135	ADRA2A	adrenergic, alpha-2A-, receptor	Plasma Membrane	G-protein coupled recept	L	1.724	0.006	-1.908	0.000	-1.879	0.002
gi_119888952_ref_XM_590380.3_	512798	EPHA2	EPH receptor A2	Plasma Membrane	kinase	M	1.718	0.005	-1.305	0.194	-1.120	0.658
gi_147898888_ref_NM_001098163.1_	100036590	KLRC1	killer cell lectin-like receptor subfamily C, member 1	Plasma Membrane	transmembrane receptor	N	1.654	0.007	-1.067	0.369	-1.611	0.011
gi_119923923_ref_XM_001249398.1_	781056	GPR174	G protein-coupled receptor 174	Plasma Membrane	G-protein coupled recept	H	1.623	0.005	-1.400	0.092	-1.927	0.001
gi_94966908_ref_NM_001040554.1_	782684	HLA-A	major histocompatibility complex, class I, A	Plasma Membrane	transmembrane receptor	H	1.608	0.007	-1.020	0.852	-1.108	0.577
gi_114051336_ref_NM_001046183.1_	514832	PEX5	peroxisomal biogenesis factor 5	Cytoplasm	transmembrane receptor	H	1.589	0.006	-1.236	0.400	-1.116	0.776
gi_119893717_ref_XM_614752.3_	541147	GPR125	G protein-coupled receptor 125	Plasma Membrane	G-protein coupled recept	VH	1.576	0.009	1.167	1.248	1.078	1.259
gi_139949072_ref_NM_001083656.1_	509703	GPR56	G protein-coupled receptor 56	Plasma Membrane	G-protein coupled recept	L	1.574	0.010	1.261	1.233	1.155	1.313
gi_77736382_ref_NM_001034655.1_	538903	SIGMAR1	sigma non-opioid intracellular receptor 1	Plasma Membrane	G-protein coupled recept	VH	1.542	0.009	-1.172	0.560	-1.668	0.010
gi_31341778_ref_NM_174516.2_	282179	CHRNB1	cholinergic receptor, nicotinic, beta 1 (muscle)	Plasma Membrane	transmembrane receptor	H	1.522	0.011	-1.761	0.002	-1.767	0.005
gi_119903188_ref_XM_600388.3_	522114	IL1RL2	interleukin 1 receptor-like 2	Plasma Membrane	transmembrane receptor	L	1.519	0.019	1.334	0.847	1.619	0.438
gi_155372282_ref_NM_001101284.1_	782518	LPAR6	lysophosphatidic acid receptor 6	Plasma Membrane	G-protein coupled recept	L	1.483	0.018	-1.242	0.311	1.628	0.530
gi_119889654_ref_XM_618390.3_	538194	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 (flai	Plasma Membrane	G-protein coupled recept	H	1.465	0.022	-3.904	0.000	-1.117	0.682
gi_119894271_ref_XM_610839.3_	532327	FGFRL1	fibroblast growth factor receptor-like 1	Plasma Membrane	transmembrane receptor	M	1.454	0.023	-1.387	0.096	-1.318	0.208

gi_156120416_ref_NM_001101884.1_	507427	RIPK3	receptor-interacting serine-threonine kinase 3	Plasma Membrane	kinase	H	1.438	0.021	1.224	1.253	1.643	0.537
gi_31342195_ref_NM_174368.2_	281876	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide)	Plasma Membrane	transmembrane receptor	VH	1.414	0.025	1.010	1.116	1.139	1.330
gi_119920696_ref_XM_608251.3_	529792	CRLF2	cytokine receptor-like factor 2	Plasma Membrane	transmembrane receptor	L	1.395	0.046	1.273	1.211	-1.493	0.037
gi_78045494_ref_NM_001035048.1_	507439	NMUR2	neurexin U receptor 2	Plasma Membrane	G-protein coupled recept	L	1.359	0.048	1.751	0.164	-1.040	0.611
gi_155372320_ref_NM_001101303.1_	788507	GPR65	G protein-coupled receptor 65	Plasma Membrane	G-protein coupled recept	VH	1.357	0.038	1.381	1.031	-1.122	0.724
gi_31341841_ref_NM_174495.2_	282131	ACVR2B	activin A receptor, type IIb	Plasma Membrane	kinase	H	1.341	0.047	-1.047	0.939	1.488	0.865
gi_119894606_ref_XM_588006.3_	510803	PGLYRP2	peptidoglycan recognition protein 2	Plasma Membrane	transmembrane receptor	L	1.326	0.054	-1.116	0.610	-1.564	0.018
gi_119910893_ref_XM_582800.3_	506364	SIGLEC8	sialic acid binding Ig-like lectin 8	Plasma Membrane	transmembrane receptor	L	-2.953	0.054	1.368	0.967	1.432	0.983
gi_147900316_ref_NM_001098123.1_	541056	GRM3	glutamate receptor, metabotropic 3	Plasma Membrane	G-protein coupled recept	M	-2.985	0.050	2.766	0.002	3.379	0.002
gi_31341426_ref_NM_173878.2_	280686	F3	coagulation factor III (thromboplastin, tissue factor)	Plasma Membrane	transmembrane receptor	M	-3.014	0.048	2.364	0.010	2.742	0.010
gi_31342593_ref_NM_174206.2_	281553	TSHR	thyroid stimulating hormone receptor	Plasma Membrane	G-protein coupled recept	L	-3.063	0.047	-1.041	0.743	1.092	1.152
gi_110347601_ref_NM_001040481.2_	282491	HLA-DMB	major histocompatibility complex, class II, DM beta	Plasma Membrane	transmembrane receptor	VH	-3.219	0.027	1.329	1.142	-1.026	0.995
gi_119890574_ref_XM_871140.2_	618817	OR6B2	olfactory receptor, family 6, subfamily B, member 2	Plasma Membrane	G-protein coupled recept	L	-3.255	0.029	1.799	0.152	2.068	0.115
gi_119920926_ref_XM_586199.3_	509267	GM6495	predicted gene 6495	Plasma Membrane	G-protein coupled recept	M	-3.279	0.023	1.337	1.126	1.464	0.939
gi_156121074_ref_NM_001102214.1_	538495	ILDR1	immunoglobulin-like domain containing receptor 1	Plasma Membrane	transmembrane receptor	L	-3.299	0.025	1.098	1.153	1.805	0.301
gi_76677886_ref_NM_001033937.1_	532262	TLR8 (includes EG:)	toll-like receptor 8	Plasma Membrane	transmembrane receptor	L	-3.302	0.025	1.069	1.104	1.207	1.319
gi_73853749_ref_NM_174011.3_	281054	CD3E	CD3e molecule, epsilon (CD3-TCR complex)	Plasma Membrane	transmembrane receptor	M	-3.312	0.025	1.175	1.235	-1.225	0.418
gi_119901592_ref_XR_027451.1_	534358	UTRN	utrophin	Plasma Membrane	transmembrane receptor	VH	-3.333	0.021	1.618	0.387	2.313	0.044
gi_119910556_ref_XM_594754.3_	516598	AXL	AXL receptor tyrosine kinase	Plasma Membrane	kinase	L	-3.363	0.025	1.330	1.135	1.682	0.467
gi_119895312_ref_XM_866364.2_	614762	OR2G3	olfactory receptor, family 2, subfamily G, member 3	Plasma Membrane	G-protein coupled recept	L	-3.432	0.019	1.295	0.985	1.625	0.539
gi_76669265_ref_XM_590306.2_	512736	OR52J3	olfactory receptor, family 52, subfamily J, member 3	Plasma Membrane	G-protein coupled recept	L	-3.464	0.015	1.468	0.740	2.520	0.021
gi_119914827_ref_XM_589282.3_	408018	CCR3	chemokine (C-C motif) receptor 3	Plasma Membrane	G-protein coupled recept	H	-3.492	0.016	-1.997	0.000	-1.834	0.002
gi_148277667_ref_NM_174547.2_	282244	GUCY2C	guanylate cyclase 2C (heat stable enterotoxin receptor)	Plasma Membrane	kinase	L	-3.620	0.012	1.259	1.210	1.214	1.306
gi_158819080_ref_NM_001110191.1_	100126272	CD302	CD302 molecule	Plasma Membrane	transmembrane receptor	H	-3.631	0.010	2.071	0.048	1.437	0.966
gi_119879508_ref_XM_617543.3_	407131	CD80	CD80 molecule	Plasma Membrane	transmembrane receptor	H	-3.651	0.010	2.625	0.004	3.352	0.002
gi_119921029_ref_NM_001252156.1_	783597	OLFR617	olfactory receptor 617	Plasma Membrane	G-protein coupled recept	L	-3.671	0.013	3.389	0.000	12.014	0.000
gi_34147166_ref_NM_183081.1_	282602	TLR9	toll-like receptor 9	Plasma Membrane	transmembrane receptor	H	-3.686	0.009	2.333	0.012	3.138	0.003
gi_76657295_ref_XM_869298.1_	617108	OLFR890	olfactory receptor 890	Plasma Membrane	G-protein coupled recept	L	-3.760	0.010	2.601	0.004	4.413	0.000
gi_119902238_ref_XM_866698.2_	615014	OLFR49	olfactory receptor 49	Plasma Membrane	G-protein coupled recept	M	-3.788	0.009	2.040	0.053	2.609	0.016
gi_119926223_ref_XM_588414.2_	539623	OR2J2	olfactory receptor, family 2, subfamily J, member 2	Plasma Membrane	G-protein coupled recept	M	-3.794	0.007	2.277	0.015	3.038	0.005
gi_164448559_ref_NM_174266.3_	281674	CD79A	CD79a molecule, immunoglobulin-associated alpha	Plasma Membrane	transmembrane receptor	VH	-3.830	0.006	1.533	0.605	1.975	0.163
gi_31341726_ref_NM_174539.2_	282229	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32)	Plasma Membrane	transmembrane receptor	H	-3.841	0.006	3.525	0.000	6.007	0.000
gi_187937198_ref_NM_001127317.1_	533051	MICB	MHC class I polypeptide-related sequence B	Plasma Membrane	transmembrane receptor	VH	-3.961	0.005	2.154	0.030	3.242	0.003
gi_119924734_ref_XM_001251058.1_	782431	OR2W1	olfactory receptor, family 2, subfamily W, member 1	Plasma Membrane	G-protein coupled recept	M	-3.970	0.005	1.464	0.630	2.400	0.032
gi_119915533_ref_XM_001251657.1_	783002	OR2B2	olfactory receptor, family 2, subfamily B, member 2	Plasma Membrane	G-protein coupled recept	M	-3.984	0.006	3.159	0.000	2.918	0.007
gi_119913108_ref_XM_600430.3_	522155	IL6ST	interleukin 6 signal transducer (gp130, oncostatin re	Plasma Membrane	transmembrane receptor	H	-4.092	0.004	1.783	0.203	1.514	0.800
gi_119912528_ref_XM_616376.3_	282642	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD6	Plasma Membrane	transmembrane receptor	L	-4.099	0.004	1.910	0.095	2.263	0.054
gi_154152062_ref_NM_001100304.1_	506159	GPR52	G protein-coupled receptor 52	Plasma Membrane	G-protein coupled recept	L	-4.119	0.005	2.269	0.016	1.907	0.207
gi_119915602_ref_XM_001253092.1_	784917	OLFR129	olfactory receptor 129	Plasma Membrane	G-protein coupled recept	M	-4.215	0.004	1.790	0.196	2.376	0.036
gi_99028970_ref_NM_001012674.2_	282490	HLA-DMA	major histocompatibility complex, class II, DM alpha	Plasma Membrane	transmembrane receptor	VH	-4.249	0.003	1.216	1.257	1.062	1.238
gi_119900522_ref_XM_001251357.1_	783725	CD72	CD72 molecule	Plasma Membrane	transmembrane receptor	H	-4.306	0.003	2.136	0.034	2.555	0.019
gi_119910464_ref_XM_605910.3_	527517	FFAR3	free fatty acid receptor 3	Plasma Membrane	G-protein coupled recept	M	-4.411	0.004	1.164	1.055	1.036	0.872
gi_116004060_ref_NM_001076918.1_	539791	TLR10	toll-like receptor 10	Plasma Membrane	transmembrane receptor	L	-4.414	0.003	1.198	1.235	2.227	0.061
gi_119911318_ref_XM_001256784.1_	790265	VN1R1	vomerolnasal 1 receptor 1	Plasma Membrane	G-protein coupled recept	L	-4.618	0.003	1.320	1.077	1.743	0.350
gi_119893047_ref_XM_613380.3_	533844	CD163	CD163 molecule	Plasma Membrane	transmembrane receptor	M	-4.650	0.002	4.651	0.000	17.050	0.000
gi_62460553_ref_NM_001014929.1_	515011	ITGA2B (includes E	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa co	Plasma Membrane	transmembrane receptor	H	-4.680	0.002	2.023	0.054	9.254	0.000
gi_58332431_ref_NM_178317.3_	352960	TRIB2	tribbles homolog 2 (Drosophila)	Plasma Membrane	kinase	VH	-4.720	0.002	-1.246	0.367	1.021	1.161
gi_119895827_ref_XM_001250068.1_	407140	ADRA1B	adrenergic, alpha-1B-, receptor	Plasma Membrane	G-protein coupled recept	H	-4.784	0.001	1.937	0.078	2.770	0.009
gi_119911392_ref_XM_601098.3_	522810	TEX14	testis expressed 14	Plasma Membrane	kinase	M	-4.846	0.001	1.727	0.224	2.126	0.089
gi_119907588_ref_XM_588870.3_	539703	P2RY6	pyrimidinergic receptor P2Y, G-protein coupled, 6	Plasma Membrane	G-protein coupled recept	M	-4.904	0.001	2.032	0.055	2.966	0.006
gi_155372148_ref_NM_001101214.1_	540647	GPR19	G protein-coupled receptor 19	Plasma Membrane	G-protein coupled recept	H	-5.050	0.001	1.682	0.297	1.303	1.253
gi_77735560_ref_NM_001034304.1_	507598	LPAR5	lysophosphatidic acid receptor 5	Plasma Membrane	G-protein coupled recept	H	-5.371	0.001	5.882	0.000	7.336	0.000
gi_119919670_ref_XM_592079.3_	540179	GPC4	glypican 4	Plasma Membrane	transmembrane receptor	M	-5.458	0.001	-1.155	0.470	1.267	1.285
gi_41386730_ref_NM_176657.1_	338062	FCGRT	Fc fragment of IgG, receptor, transporter, alpha	Plasma Membrane	transmembrane receptor	H	-5.615	0.000	2.746	0.002	3.519	0.001
gi_119919105_ref_XM_001254753.1_	337885	GPR44	G protein-coupled receptor 44	Plasma Membrane	G-protein coupled recept	M	-5.669	0.000	1.542	0.367	1.446	0.906
gi_119915616_ref_XM_870400.2_	618070	OLFR131	olfactory receptor 131	Plasma Membrane	G-protein coupled recept	M	-5.819	0.000	1.628	0.402	4.000	0.000
gi_148223508_ref_NM_001098056.1_	523822	TNFRSF11B	tumor necrosis factor receptor superfamily, member 11	Plasma Membrane	transmembrane receptor	M	-5.852	0.000	1.562	0.461	1.398	1.033
gi_115497649_ref_NM_001075583.1_	512876	GPR4	G protein-coupled receptor 4	Plasma Membrane	G-protein coupled recept	M	-6.134	0.000	2.102	0.036	4.322	0.000
gi_31343523_ref_NM_175776.2_	281033	TSP0	translocator protein (18kDa)	Cytoplasm	transmembrane receptor	H	-6.284	0.000	1.025	1.049	1.986	0.155
gi_95147663_ref_NM_001040472.1_	281055	CD3G	CD3g molecule, gamma (CD3-TCR complex)	Plasma Membrane	transmembrane receptor	VH	-6.452	0.000	2.617	0.004	3.186	0.003
gi_119915382_ref_XM_582099.3_	538700	HLA-DRB5	major histocompatibility complex, class II, DR beta 5	Plasma Membrane	transmembrane receptor	H	-6.499	0.000	1.262	1.251	1.364	1.171
gi_119913259_ref_XM_599818.3_	521554	IL7R	interleukin 7 receptor	Plasma Membrane	transmembrane receptor	H	-6.767	0.000	1.198	1.256	-1.113	0.687
gi_118150797_ref_NM_001077839.1_	407771	CCR1	chemokine (C-C motif) receptor 1	Plasma Membrane	G-protein coupled recept	H	-6.915	0.000	1.057	1.118	1.002	0.971
gi_119921486_ref_XM_582624.3_	506206	MR1	major histocompatibility complex, class I-related	Plasma Membrane	transmembrane receptor	H	-7.033	0.000	3.997	0.000	5.540	0.000
gi_31341591_ref_NM_174589.2_	282331	PTGER4	prostaglandin E receptor 4 (subtype EP4)	Plasma Membrane	G-protein coupled recept	H	-7.034	0.000	1.555	0.532	1.932	0.187
gi_115494923_ref_NM_001075952.1_	531519	ASGR2	asialoglycoprotein receptor 2	Plasma Membrane	transmembrane receptor	H	-7.502	0.000	1.712	0.285	3.466	0.001

gi_164448623_ref_NM_001034564.2_	528174	GPR133	G protein-coupled receptor 133	Plasma Membrane	G-protein coupled recept	M	-7.570	0.000	-1.216	0.318	1.014	1.051
gi_76628635_ref_XM_594575.2_	516422	ADRA2B	adrenergic, alpha-2B-, receptor	Plasma Membrane	G-protein coupled recept	M	-8.283	0.000	1.639	0.295	2.255	0.055
gi_119891802_ref_XM_598424.3_	520189	LGR5	leucine-rich repeat-containing G protein-coupled receptor	Plasma Membrane	G-protein coupled recept	H	-8.580	0.000	1.119	1.203	-3.245	0.000
gi_77736322_ref_NM_001034689.1_	540038	GPR18	G protein-coupled receptor 18	Plasma Membrane	G-protein coupled recept	H	-8.868	0.000	2.327	0.013	1.879	0.227
gi_76253706_ref_NM_174301.3_	281736	CXCR4	chemokine (C-X-C motif) receptor 4	Plasma Membrane	G-protein coupled recept	VH	-9.677	0.000	4.072	0.000	3.127	0.004
gi_119894939_ref_XM_582663.3_	538783	TBXA2R	thromboxane A2 receptor	Plasma Membrane	G-protein coupled recept	VH	-10.482	0.000	2.146	0.031	2.757	0.010
gi_47564061_ref_NM_001001159.1_	407237	TLR6	tolllike receptor 6	Plasma Membrane	transmembrane receptor	H	-10.744	0.000	2.641	0.003	4.438	0.000
gi_119917945_ref_XM_596577.3_	518385	GPR123	G protein-coupled receptor 123	Plasma Membrane	G-protein coupled recept	M	-11.584	0.000	1.007	0.958	-1.014	0.715
gi_119915062_ref_XM_604082.3_	525727	HLA-DOA	major histocompatibility complex, class II, DO alpha	Plasma Membrane	transmembrane receptor	VH	-11.787	0.000	2.613	0.004	2.799	0.009
gi_119892797_ref_XM_606956.3_	528530	CSF2RB	colony stimulating factor 2 receptor, beta, low-affinity (t	Plasma Membrane	transmembrane receptor	H	-12.824	0.000	5.807	0.000	17.980	0.000
gi_119915324_ref_XM_590184.3_	512637	GPR110	G protein-coupled receptor 110	Plasma Membrane	G-protein coupled recept	M	-13.880	0.000	1.227	1.257	1.220	1.343
gi_31341725_ref_NM_174538.2_	282227	FCGR1A	Fc fragment of IgG, high affinity Ia, receptor (CD64)	Plasma Membrane	transmembrane receptor	H	-15.082	0.000	8.087	0.000	14.337	0.000
gi_157427855_ref_NM_001105365.1_	514031	ITGB7	integrin, beta 7	Plasma Membrane	transmembrane receptor	H	-15.582	0.000	6.285	0.000	26.661	0.000
gi_84370178_ref_NM_001038568.1_	540044	GPR84	G protein-coupled receptor 84	Plasma Membrane	G-protein coupled recept	H	-17.628	0.000	10.342	0.000	20.487	0.000
gi_119901378_ref_XM_611161.3_	538797	EPHA7	EPH receptor A7	Plasma Membrane	kinase	H	-18.744	0.000	1.512	0.525	1.697	0.393
gi_119914848_ref_XM_584158.3_	539002	CCR2	chemokine (C-C motif) receptor 2	Plasma Membrane	G-protein coupled recept	H	-19.856	0.000	1.142	1.233	1.064	1.236
gi_119915290_ref_XM_864510.2_	514819	PTK7	PTK7 protein tyrosine kinase 7	Plasma Membrane	kinase	H	-22.433	0.000	1.708	0.205	6.498	0.000
gi_119903128_ref_XM_580552.3_	504429	MERTK	c-mer proto-oncogene tyrosine kinase	Plasma Membrane	kinase	VH	-24.859	0.000	1.335	1.057	1.143	1.276
gi_156120860_ref_NM_001102107.1_	527140	CALCR	calitonin receptor-like	Plasma Membrane	G-protein coupled recept	H	-26.115	0.000	1.848	0.135	2.121	0.084
gi_31342075_ref_NM_174410.2_	281963	P2RY1	purinergic receptor P2Y, G-protein coupled, 1	Plasma Membrane	G-protein coupled recept	H	-37.328	0.000	3.886	0.000	3.873	0.001
gi_114052616_ref_NM_001046504.1_	574090	TLR1	tolllike receptor 1	Plasma Membrane	transmembrane receptor	VH	-38.763	0.000	4.670	0.000	21.531	0.000
gi_76638859_ref_NM_582510.2_	538759	GPR81	G protein-coupled receptor 81	Plasma Membrane	G-protein coupled recept	H	-42.492	0.000	-1.064	0.732	-1.008	0.896
gi_119893274_ref_XM_870848.2_	618516	TNFRSF13C	tumor necrosis factor receptor superfamily, member 13	Plasma Membrane	transmembrane receptor	VH	-49.962	0.000	-1.017	0.953	1.979	0.161
gi_119912116_ref_XM_584605.3_	353110	NGFR	nerve growth factor receptor (TNFR superfamily, mem1	Plasma Membrane	transmembrane receptor	VH	-50.012	0.000	-1.285	0.254	-1.112	0.644
gi_89886135_ref_NM_001013585.3_	281135	S1PR1	sphingosine-1-phosphate receptor 1	Plasma Membrane	G-protein coupled recept	VH	-58.987	0.000	4.088	0.000	13.674	0.000
gi_61825106_ref_XM_583123.1_	538837	GPR141	G protein-coupled receptor 141	Plasma Membrane	G-protein coupled recept	H	-59.180	0.000	1.317	1.100	2.078	0.112
gi_126723186_ref_NM_174198.6_	281536	TLR4	tolllike receptor 4	Plasma Membrane	transmembrane receptor	VH	-70.557	0.000	4.771	0.000	4.846	0.000
gi_99028960_ref_NM_174184.3_	281489	SLAMF1	signaling lymphocytic activation molecule family memb	Plasma Membrane	transmembrane receptor	VH	-84.352	0.000	1.301	1.106	1.326	1.182
gi_157427947_ref_NM_001105411.1_	534801	GFRA1	GDNF family receptor alpha 1	Plasma Membrane	transmembrane receptor	VH	-99.175	0.000	1.884	0.106	4.459	0.000
gi_119913552_ref_NM_606794.3_	281848	IGF1R	insulin-like growth factor 1 receptor	Plasma Membrane	transmembrane receptor	VH	-107.774	0.000	1.943	0.061	1.866	0.190
gi_76660614_ref_XM_597941.2_	519716	CCR6	chemokine (C-C motif) receptor 6	Plasma Membrane	G-protein coupled recept	H	-110.621	0.000	1.437	0.755	2.660	0.014
gi_153792426_ref_NM_001099726.1_	782045	CYS1LTR1	cysteinyln leukotriene receptor 1	Plasma Membrane	G-protein coupled recept	VH	-162.124	0.000	1.562	0.439	12.481	0.000
gi_31343049_ref_NM_174010.2_	281052	CD36	CD36 molecule (thrombospondin receptor)	Plasma Membrane	transmembrane receptor	VH	-185.369	0.000	2.016	0.051	2.040	0.123
gi_119911249_ref_XM_867060.2_	615295	LAIR1	leukocyte-associated immunoglobulin-like receptor 1	Plasma Membrane	transmembrane receptor	VH	-230.065	0.000	1.227	1.175	1.082	1.141

Table S6C: Cell Surface - ion channels and transporters

SEQ_ID	Entrez gene ID	Symbol	Entrez Gene Name	Location	Type	Predicted BL20 expression level	FC		FDR		FC		FDR	
							FC BLV/TBL	FDR BLV/TBL	TBLV/TBL24h	FDR TBLV/TBL24h	TBLV/TBL48h	FDR TBLV/TBL48h		
gi_119894775_ref_XM_868927.2_	281276	LDLR	low density lipoprotein receptor	Plasma Membrane	transporter	L	117.922	0.000	-1.400	0.095	-1.191	0.528		
gi_76655242_ref_XM_582736.2_	538791	KCNK18	potassium channel, subfamily K, member 18	Plasma Membrane	ion channel	N	59.961	0.000	-2.067	0.000	-3.715	0.000		
gi_31341539_ref_NM_174610.2_	282366	SLC6A6	solute carrier family 6 (neurotransmitter transporter, ta	Plasma Membrane	transporter	M	45.455	0.000	-2.500	0.000	-2.570	0.000		
gi_134085654_ref_NM_001083448.1_	527014	SV2B	synaptic vesicle glycoprotein 2B	Plasma Membrane	transporter	L	33.466	0.000	-1.134	0.658	-3.784	0.000		
gi_119911706_ref_XM_594012.3_	338035	P2RX5	purinergic receptor P2X, ligand-gated ion channel, 5	Plasma Membrane	ion channel	M	24.146	0.000	-1.444	0.056	-1.855	0.002		
gi_119892068_ref_XM_868185.2_	537277	SCN8A	sodium channel, voltage gated, type VIII, alpha subuni	Plasma Membrane	ion channel	L	16.099	0.000	2.166	0.027	-1.071	0.916		
gi_125630722_ref_NM_001081543.1_	615761	KCNE4	potassium voltage-gated channel, Isk-related family, m	Plasma Membrane	ion channel	L	11.016	0.000	2.399	0.010	2.891	0.007		
gi_47564023_ref_NM_001001134.1_	407132	SLCO3A1	solute carrier organic anion transporter family, member	Plasma Membrane	transporter	L	9.861	0.000	-1.500	0.034	-2.761	0.000		
gi_119887104_ref_XM_587930.3_	510745	ABCG1	ATP-binding cassette, sub-family G (WHITE), member	Plasma Membrane	transporter	M	7.545	0.000	-6.325	0.000	-4.659	0.000		
gi_31341556_ref_NM_174602.2_	282356	SLC2A1	solute carrier family 2 (facilitated glucose transporter),	Plasma Membrane	transporter	H	7.347	0.000	-2.188	0.000	-2.633	0.000		
gi_150247069_ref_NM_001099378.1_	521181	SLC15A1	solute carrier family 15 (oligopeptide transporter), mem	Plasma Membrane	transporter	L	5.429	0.000	-1.654	0.008	-3.253	0.000		
gi_148234191_ref_NM_001098036.1_	515437	SLC39A14	solute carrier family 39 (zinc transporter), member 14	Plasma Membrane	transporter	H	5.231	0.000	-2.133	0.000	-2.895	0.000		
gi_119907150_ref_XM_612483.3_	533166	SORL1	sorllin-related receptor, L(DLR class) A repeats-contai	Plasma Membrane	transporter	L	4.761	0.000	5.674	0.000	8.918	0.000		
gi_31341534_ref_NM_174613.2_	282369	SLC7A5	solute carrier family 7 (cationic amino acid transporter,	Plasma Membrane	transporter	H	4.114	0.000	-4.668	0.000	-4.840	0.000		
gi_158341669_ref_NM_001109980.1_	510085	SLC16A3	solute carrier family 16, member 3 (monocarboxylic ac	Plasma Membrane	transporter	L	3.566	0.000	-1.188	0.370	-1.008	0.857		
gi_119893596_ref_XM_584935.3_	508193	SLC39A8	solute carrier family 39 (zinc transporter), member 8	Extracellular Space	transporter	L	3.557	0.000	1.351	0.976	-1.767	0.005		
gi_115495866_ref_NM_001076246.1_	540853	SNAP25	synaptosomal-associated protein, 25kDa	Plasma Membrane	transporter	N	3.536	0.000	-1.141	0.412	-1.069	0.776		
gi_119889235_ref_XM_868686.2_	534180	KCNN3	potassium intermediate/small conductance calcium-ac	Plasma Membrane	ion channel	M	3.158	0.000	1.006	1.003	1.481	0.874		
gi_119890545_ref_XM_614767.3_	541151	TRPM8	transient receptor potential cation channel, subfamily	Plasma Membrane	ion channel	L	3.149	0.000	2.133	0.032	1.306	1.202		
gi_119889676_ref_XM_603860.3_	525507	KCNA3	potassium voltage-gated channel, shaker-related subf	Plasma Membrane	ion channel	L	3.090	0.000	2.308	0.014	-1.403	0.084		
gi_119924879_ref_XM_590317.3_	281585	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), memt	Plasma Membrane	transporter	L	2.858	0.000	1.133	0.956	1.072	0.886		
gi_136255756_ref_NM_001075630.2_	513621	VAMP1	vesicle-associated membrane protein 1 (synaptobrevin	Plasma Membrane	transporter	M	2.340	0.000	-1.019	0.988	-1.227	0.379		
gi_31341239_ref_NM_174833.2_	317654	SLC9A1	solute carrier family 9 (sodium/hydrogen exchanger), n	Plasma Membrane	ion channel	H	1.907	0.001	-1.404	0.093	-1.049	0.984		
gi_27807092_ref_NM_174605.1_	282360	SLC4A4	solute carrier family 4, sodium bicarbonate cotransport	Plasma Membrane	transporter	H	1.889	0.001	1.465	0.740	4.175	0.000		

gi_88319926_ref_NM_174068.2_	281193	GJA1	gap junction protein, alpha 1, 43kDa	Plasma Membrane	transporter	H	1.858	0.002	-1.270	0.272	-2.729	0.000
gi_119912484_ref_XM_587873.3_	510698	VAT1	vesicle amine transport protein 1 homolog (T. californica)	Plasma Membrane	transporter	H	1.835	0.001	1.983	0.078	2.075	0.114
gi_125991751_ref_NM_174603.3_	282358	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	Plasma Membrane	transporter	H	1.823	0.002	-1.626	0.009	-2.090	0.000
gi_149643066_ref_NM_001099123.1_	613446	PLLP	plasma membrane proteolipid (plasmolipin)	Plasma Membrane	transporter	L	1.810	0.002	3.740	0.000	2.780	0.009
gi_119910207_ref_XM_865652.2_	533876	SLC12A4	solute carrier family 12 (potassium/chloride transporter), member 4	Plasma Membrane	transporter	H	1.807	0.002	-1.546	0.023	-1.244	0.364
gi_56699419_ref_NM_174607.1_	282362	SLC5A3	solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	Plasma Membrane	transporter	M	1.762	0.002	-1.440	0.054	-1.575	0.022
gi_119912899_ref_XM_587636.3_	510497	ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5	Plasma Membrane	transporter	H	1.749	0.003	-1.022	0.974	-1.254	0.423
gi_31341563_ref_NM_174601.2_	282355	SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5	Plasma Membrane	transporter	VH	1.746	0.002	-1.519	0.027	-1.697	0.008
gi_62177171_ref_NM_001014384.1_	541597	KCNAB2	potassium voltage-gated channel, shaker-related subfamily B, member 2	Plasma Membrane	ion channel	H	1.739	0.002	-1.292	0.239	1.075	1.274
gi_122692594_ref_NM_001080288.1_	526291	SLC13A3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	Plasma Membrane	transporter	L	1.703	0.005	-1.037	0.830	-1.241	0.227
gi_119924210_ref_XM_001249496.1_	781113	SLC5A3	solute carrier family 5 (sodium/myo-inositol cotransporter), member 3	Plasma Membrane	transporter	M	1.681	0.004	-1.984	0.000	-2.597	0.000
gi_154152194_ref_NM_001100381.1_	518976	SLC31A1	solute carrier family 31 (copper transporters), member 1	Plasma Membrane	transporter	VH	1.638	0.005	-1.380	0.100	-2.126	0.000
gi_164448599_ref_NM_001024488.2_	507107	SLC3A2	solute carrier family 3 (activators of dibasic and neutral amino acid transporters), member 2	Plasma Membrane	transporter	H	1.594	0.007	-1.861	0.001	-1.686	0.008
gi_115497811_ref_NM_001076453.1_	617307	SLC19A1	solute carrier family 19 (folate transporter), member 1	Plasma Membrane	transporter	VH	1.579	0.007	-1.531	0.022	-1.670	0.009
gi_155371936_ref_NM_001101103.1_	521189	SLC11A2	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 2	Plasma Membrane	transporter	H	1.565	0.008	1.168	1.252	1.050	1.226
gi_119908342_ref_XM_598445.3_	520210	CLCN6	chloride channel 6	Plasma Membrane	ion channel	H	1.552	0.009	-1.536	0.028	1.006	1.133
gi_122692298_ref_NM_001080231.1_	504503	SLC29A3	solute carrier family 29 (nucleoside transporters), member 3	Plasma Membrane	transporter	M	1.544	0.009	1.059	1.183	1.323	1.241
gi_119908509_ref_XM_607245.3_	528813	SCNN1D	sodium channel, nonvoltage-gated 1, delta	Plasma Membrane	ion channel	L	1.522	0.016	-1.335	0.143	-1.332	0.168
gi_157954054_ref_NM_001109793.1_	511800	ANKH	ankylosis, progressive homolog (mouse)	Plasma Membrane	transporter	VH	1.515	0.010	1.701	0.297	1.562	0.705
gi_119894467_ref_XM_614120.3_	534369	ATP13A1	ATPase type 13A1	Extracellular Space	transporter	VH	1.512	0.011	-1.620	0.011	-1.733	0.006
gi_31341773_ref_NM_174519.2_	282184	CLDN16	claudin 16	Plasma Membrane	transporter	L	1.496	0.017	3.504	0.000	3.568	0.001
gi_115497975_ref_NM_001075207.1_	505563	KCNK1	potassium channel, subfamily K, member 1	Plasma Membrane	ion channel	H	1.478	0.015	-1.767	0.003	-2.348	0.000
gi_126158902_ref_NM_001081577.1_	326577	SLC1A4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4	Plasma Membrane	transporter	VH	1.453	0.019	-1.955	0.000	-1.932	0.001
gi_122692468_ref_NM_001080300.1_	534568	KCNMB2	potassium large conductance calcium-activated channel, member 2	Plasma Membrane	ion channel	L	1.423	0.025	4.022	0.000	2.952	0.006
gi_31340942_ref_NM_174782.2_	286845	SLC12A2	solute carrier family 12 (sodium/potassium/chloride transporter), member 2	Plasma Membrane	transporter	H	1.413	0.026	-1.117	0.756	-1.713	0.007
gi_84370157_ref_NM_001038563.1_	538144	TMED1	transmembrane emp24 protein transport domain containing 1	Extracellular Space	transporter	H	1.407	0.026	-1.419	0.077	-1.411	0.092
gi_148224853_ref_NM_001076237.3_	540716	SLC39A7	solute carrier family 39 (zinc transporter), member 7	Plasma Membrane	transporter	VH	1.406	0.026	-1.474	0.045	-1.560	0.025
gi_119905633_ref_XM_611249.3_	507969	SLCO4A1	solute carrier organic anion transporter family, member 4A1	Plasma Membrane	transporter	H	1.394	0.030	-1.841	0.001	-2.532	0.000
gi_119905474_ref_XM_001251156.1_	783536	SLC23A2	solute carrier family 23 (nucleobase transporters), member 2	Plasma Membrane	transporter	H	1.375	0.035	1.067	1.068	1.055	1.215
gi_78369389_ref_NM_001035381.1_	530352	SLC39A1	solute carrier family 39 (zinc transporter), member 1	Plasma Membrane	transporter	H	1.373	0.037	-1.137	0.695	-1.097	0.854
gi_156121042_ref_NM_001102198.1_	537280	SLC19A3	solute carrier family 19, member 3	Plasma Membrane	transporter	H	1.369	0.037	1.591	0.477	1.275	1.331
gi_139949143_ref_NM_001083743.1_	539478	TM9SF1	transmembrane 9 superfamily member 1	Plasma Membrane	transporter	VH	1.357	0.042	1.075	1.180	-1.085	0.858
gi_161760672_ref_NM_001075937.2_	530661	SLC7A6	solute carrier family 7 (cationic amino acid transporter, yaglycin transporter), member 6	Plasma Membrane	transporter	VH	1.332	0.045	-1.465	0.036	-1.457	0.065
gi_116734842_ref_NM_001075129.1_	282648	CACNA1A	calcium channel, voltage-dependent, P/Q type, alpha 1	Plasma Membrane	ion channel	L	-2.985	0.049	-1.128	0.612	1.231	1.329
gi_119894372_ref_XR_027411.1_	618257	SORCS2	sorbinin-related VPS10 domain containing receptor 2	Plasma Membrane	transporter	L	-3.038	0.049	1.809	0.165	2.189	0.070
gi_114052125_ref_NM_001046116.1_	512311	SLC5A7	solute carrier family 5 (choline transporter), member 7	Plasma Membrane	transporter	M	-3.057	0.042	1.118	1.174	1.186	1.323
gi_155371972_ref_NM_001101123.1_	525480	SLC16A4	solute carrier family 16, member 4 (monocarboxylic acid transporter), member 4	Plasma Membrane	transporter	L	-3.068	0.042	1.475	0.626	1.497	0.812
gi_119904862_ref_XM_593336.3_	515333	ABCC4	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	Plasma Membrane	transporter	VH	-3.073	0.037	-1.059	0.960	-1.056	0.984
gi_119902660_ref_XM_610426.3_	531921	SLC28A2	solute carrier family 28 (sodium-coupled nucleoside transporter), member 2	Plasma Membrane	transporter	L	-3.109	0.042	1.123	1.146	1.504	0.814
gi_119906046_ref_XM_599598.3_	521338	KCNK1	potassium voltage-gated channel, delayed-rectifier, subfamily J, member 1	Plasma Membrane	ion channel	L	-3.185	0.034	-1.090	0.653	-1.067	0.778
gi_114050716_ref_NM_001046476.1_	540406	VAMP5	vesicle-associated membrane protein 5 (myobrevin)	Plasma Membrane	transporter	H	-3.205	0.029	1.363	0.965	1.404	1.079
gi_76667956_ref_NM_603455.2_	525109	KCNK10	potassium channel, subfamily K, member 10	Plasma Membrane	ion channel	H	-3.278	0.023	1.642	0.379	1.237	1.343
gi_157785612_ref_NM_001105628.1_	536495	ATP10D	ATPase, class V, type 10D	Plasma Membrane	transporter	H	-3.282	0.023	2.266	0.017	3.647	0.001
gi_155722980_ref_NM_001101042.1_	282868	SLC2A5	solute carrier family 2 (facilitated glucose/fructose transporter), member 2	Plasma Membrane	transporter	L	-3.312	0.024	48.731	0.000	38.989	0.000
gi_119906802_ref_XM_869405.2_	617196	SLC26A7	solute carrier family 26, member 7	Plasma Membrane	transporter	M	-3.360	0.021	1.467	0.684	-1.146	0.458
gi_139948256_ref_NM_001083777.1_	617017	RAMP1	receptor (G protein-coupled) activity modifying protein 1	Plasma Membrane	transporter	H	-3.388	0.021	-1.297	0.206	-1.385	0.116
gi_119919426_ref_NM_001252337.1_	784876	KCNQ1	potassium voltage-gated channel, KQT-like subfamily, member 1	Plasma Membrane	ion channel	M	-3.445	0.017	1.260	1.165	1.195	1.244
gi_122692576_ref_NM_001080280.1_	518905	SLC20A2	solute carrier family 20 (phosphate transporter), member 2	Plasma Membrane	transporter	H	-3.469	0.016	4.643	0.000	12.140	0.000
gi_114050956_ref_NM_001046076.1_	511119	GJC1	gap junction protein, gamma 1, 45kDa	Plasma Membrane	transporter	VH	-3.578	0.011	1.236	1.255	1.023	1.185
gi_119901333_ref_XM_866973.2_	615226	GRIK2	glutamate receptor, ionotropic, kainate 2	Plasma Membrane	ion channel	M	-3.609	0.010	-1.358	0.112	1.173	1.273
gi_125991871_ref_NM_001081596.1_	529939	LAMB3	laminin, beta 3	Extracellular Space	transporter	M	-3.835	0.007	-1.201	0.432	1.010	1.140
gi_76638883_ref_XM_591410.2_	286814	P2RX7	purinergic receptor P2X, ligand-gated ion channel, 7	Plasma Membrane	ion channel	M	-3.860	0.007	1.728	0.232	2.158	0.079
gi_119912813_ref_XM_610029.3_	531531	SLC16A5	solute carrier family 16, member 5 (monocarboxylic acid transporter), member 5	Plasma Membrane	transporter	M	-3.988	0.006	-1.073	0.541	1.125	1.262
gi_99028972_ref_NM_174195.3_	281518	TCN2	transcobalamin II; macrocytic anemia	Extracellular Space	transporter	H	-4.054	0.004	2.883	0.001	4.362	0.000
gi_119909528_ref_XM_599391.3_	521133	SEC14L3	SEC14-like 3 (S. cerevisiae)	Extracellular Space	transporter	M	-4.078	0.005	1.423	0.707	1.688	0.444
gi_66792907_ref_NM_001024563.1_	535990	KCNB2	potassium voltage-gated channel, Shab-related subfamily B, member 2	Plasma Membrane	ion channel	M	-4.108	0.005	-1.010	0.914	-1.045	0.813
gi_31341853_ref_NM_174489.2_	282123	VLDLR	very low density lipoprotein receptor	Plasma Membrane	transporter	M	-4.127	0.005	1.638	0.341	3.007	0.005
gi_119892308_ref_XM_598691.2_	520448	KCNMB4	potassium large conductance calcium-activated channel, member 4	Plasma Membrane	ion channel	H	-4.207	0.004	1.762	0.214	-1.022	1.056
gi_119911727_ref_XM_864597.2_	507000	SLC13A5	solute carrier family 13 (sodium-dependent citrate transporter), member 5	Plasma Membrane	transporter	H	-4.506	0.002	2.710	0.002	3.208	0.003
gi_119919062_ref_XM_585917.3_	539250	KCNJ1	potassium inwardly-rectifying channel, subfamily J, member 1	Plasma Membrane	ion channel	M	-4.758	0.002	-1.175	0.479	1.071	1.224
gi_77735752_ref_NM_001034399.1_	511064	FXRD6	FXRD domain containing ion transport regulator 6	Plasma Membrane	ion channel	M	-4.893	0.001	4.279	0.000	4.377	0.000
gi_119910843_ref_XM_001253416.1_	785362	SLC6A16	solute carrier family 6, member 16	Plasma Membrane	transporter	M	-5.131	0.001	1.033	1.097	1.441	0.940
gi_66792889_ref_NM_001024553.1_	518384	KCNQ1	potassium voltage-gated channel, Shal-related subfamily J, member 1	Plasma Membrane	ion channel	H	-5.194	0.001	1.463	0.748	5.931	0.000
gi_119894510_ref_XM_868291.2_	480008	KCNN1	potassium intermediate/small conductance calcium-activated channel, subfamily N, member 1	Plasma Membrane	ion channel	M	-5.298	0.001	1.189	1.178	1.272	1.303
gi_148223920_ref_NM_001076336.2_	614573	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter), member 7	Plasma Membrane	transporter	VH	-5.727	0.000	2.714	0.002	2.591	0.016
gi_77404276_ref_NM_001034049.1_	338036	P2RX4	purinergic receptor P2X, ligand-gated ion channel, 4	Plasma Membrane	ion channel	H	-5.759	0.000	1.983	0.071	2.748	0.010

gi_119931673_ref_XM_001249309.1_	781005	SERINC2	serine incorporator 2	Plasma Membrane	transporter	H	-5.825	0.000	5.902	0.000	11.210	0.000
gi_70778797_ref_NM_001025333.1_	516626	OSTALPHA	organic solute transporter alpha	Plasma Membrane	transporter	M	-5.879	0.000	1.471	0.655	1.075	1.279
gi_119918891_ref_XM_606459.3_	528050	SLC6A5	solute carrier family 6 (neurotransmitter transporter, gly)	Plasma Membrane	transporter	H	-6.032	0.000	1.300	1.189	-1.107	0.748
gi_78370166_ref_NM_001035285.1_	513593	SERINC2	serine incorporator 2	Plasma Membrane	transporter	H	-6.116	0.000	5.071	0.000	9.998	0.000
gi_119912178_ref_XM_612461.3_	533151	ABCC3	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	Plasma Membrane	transporter	VH	-6.476	0.000	1.872	0.122	4.046	0.000
gi_112817614_ref_NM_001037478.2_	536203	ABCG2	ATP-binding cassette, sub-family G (WHITE), member 2	Plasma Membrane	transporter	VH	-7.117	0.000	2.645	0.004	2.579	0.018
gi_119895570_ref_XM_581784.3_	505492	SLC23A1	solute carrier family 23 (nucleobase transporters), member 1	Plasma Membrane	transporter	M	-7.174	0.000	1.382	0.974	1.739	0.387
gi_115497519_ref_NM_001075151.1_	504220	SLC7A7	solute carrier family 7 (cationic amino acid transporter, high-affinity neutral amino acid transporter)	Plasma Membrane	transporter	VH	-7.348	0.000	3.765	0.000	5.496	0.000
gi_115496685_ref_NM_001075325.1_	507672	FOLR2	folate receptor 2 (fetal)	Plasma Membrane	transporter	M	-7.688	0.000	1.676	0.245	5.408	0.000
gi_119906935_ref_XM_586071.3_	407151	TRPC6	transient receptor potential cation channel, subfamily C member 6	Plasma Membrane	ion channel	H	-9.004	0.000	1.394	0.917	-1.792	0.004
gi_119911701_ref_XM_863847.2_	539074	TRPV1	transient receptor potential cation channel, subfamily V member 1	Plasma Membrane	ion channel	M	-10.925	0.000	-1.100	0.425	-1.102	0.367
gi_119920329_ref_XM_586812.3_	509779	CACNA1F	calcium channel, voltage-dependent, L type, alpha 1F	Plasma Membrane	ion channel	H	-11.252	0.000	1.733	0.232	2.573	0.019
gi_115494983_ref_NM_001076301.1_	613972	APOD	apolipoprotein D	Extracellular Space	transporter	H	-11.536	0.000	2.512	0.006	2.502	0.024
gi_119331227_ref_NM_001079794.1_	780866	AQP3	aquaporin 3 (Gill blood group)	Plasma Membrane	transporter	VH	-12.681	0.000	8.980	0.000	12.438	0.000
gi_119915752_ref_XM_584165.3_	507535	SLC17A1	solute carrier family 17 (sodium phosphate), member 1	Plasma Membrane	transporter	M	-12.793	0.000	1.197	1.255	1.454	0.924
gi_119912146_ref_XM_001252666.1_	282411	CACNA1G	calcium channel, voltage-dependent, T type, alpha 1G	Plasma Membrane	ion channel	H	-16.162	0.000	-1.340	0.097	1.016	0.827
gi_56710326_ref_NM_001008666.1_	493988	SLC14A1	solute carrier family 14 (urea transporter), member 1	Plasma Membrane	transporter	M	-17.271	0.000	1.230	1.257	1.169	1.323
gi_118150847_ref_NM_001077867.1_	507185	OSTBETA	organic solute transporter beta	Plasma Membrane	transporter	H	-18.206	0.000	1.927	0.092	5.650	0.000
gi_31341522_ref_NM_174618.2_	282377	STX1B	syntaxin 1B	Plasma Membrane	ion channel	H	-18.646	0.000	1.792	0.155	4.925	0.000
gi_119911051_ref_XM_599883.3_	521616	CACNG6	calcium channel, voltage-dependent, gamma subunit 6	Plasma Membrane	ion channel	H	-28.982	0.000	1.384	0.568	1.338	1.041
gi_119918570_ref_XM_001252944.1_	784716	CDH23	cadherin-like 23	Plasma Membrane	transporter	H	-28.982	0.000	-1.263	0.281	-1.120	0.651
gi_119904117_ref_XM_605012.3_	526639	LCN2	lipocalin 2	Extracellular Space	transporter	H	-30.326	0.000	-1.055	0.804	1.446	0.887
gi_32189337_ref_NM_174143.1_	281401	PIGR	polymeric immunoglobulin receptor	Plasma Membrane	transporter	H	-85.226	0.000	2.400	0.010	3.736	0.001
gi_157954060_ref_NM_001109795.1_	513856	A2M	alpha-2-macroglobulin	Extracellular Space	transporter	VH	-109.925	0.000	2.001	0.059	4.697	0.000
gi_31341436_ref_NM_174652.2_	282470	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporter)	Plasma Membrane	transporter	VH	-238.083	0.000	2.273	0.015	8.234	0.000