

SOMAscan® Assay Change Log - 1.3k - April 2015

SomaLogic is always improving our SOMAscan assay by developing SOMAmer® reagents with superior performance. This change log reflects the latest SOMAmer reagents that have been added, replaced, removed and renamed from the SOMAscan Assay 1.1k to the SOMAscan Assay 1.3k. Note that updated names of SOMAmers reagents are based on changes by UniProt.

Additions to SOMAmer Reagents

SeqId	Target Full Name	UniProt	Dilution in Plasma	Dilution in Serum
14156-33_3	14-3-3 protein beta/alpha	P31946	1	1
7625-27_3	14-3-3 protein theta	P27348	1	1
5858-6_5	14-3-3 protein zeta/delta	P63104	1	1
14157-21_3	14-3-3 protein epsilon	P62258	40	40
5861-78_3	3-hydroxyanthranilate 3,4-dioxygenase	P46952	1	1
5792-8_2	alpha-Fetoprotein	P02771	40	40
14134-49_3	Amphoterin-induced protein 2	Q86SJ2	40	40
7624-19_3	Ankyrin-2	Q01484	40	40
9202-309_3	ATP synthase subunit O, mitochondrial	P48047	40	40
14115-34_3	Adrenomedullin	P35318	1	1
11105-171_3	Alpha-enolase	P06733	1	1
14158-17_3	Annexin A5	P08758	40	40
11510-31_3	Apolipoprotein L1	O14791	0.005	0.005
14125-5_3	Apolipoprotein M	O95445	40	40
13097-11_3	Bcl-2-like protein 2	Q92843	40	40
5870-23_2	Bcl2-associated agonist of cell death	Q92934	40	40
13111-79_3	B-cell lymphoma 6 protein	P41182	40	1
5798-3_3	BH3-interacting domain death agonist	P55957	40	40
13088-397_3	Betacellulin	P35070	40	40
14136-234_3	Complement component C1q receptor	Q9NPY3	1	1
9212-22_3	Cathepsin F	Q9UBX1	1	1
13116-25_3	CD177 antigen	Q8N6Q3	1	1
5063-12_2	Natural killer cell receptor 2B4	Q9BZW8	40	40
11513-92_3	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1	P28907	40	40
6653-58_3	Leukocyte surface antigen CD47	Q08722	40	40
11514-196_3	CD59 glycoprotein	P13987	1	1
9190-7_3	CD63 antigen	P08962	1	1
5065-8_2	CD83 antigen	Q01151	40	40
10337-83_3	CCAAT/enhancer-binding protein beta	P17676	40	40
10336-3_3	E3 ubiquitin-protein ligase CHIP	Q9UNE7	40	40
13117-232_3	Choline/ethanolamine kinase	Q9Y259	1	1
7628-40_3	Cysteine-rich with EGF-like domain protein 1	Q96HD1	1	1
13103-125_3	Chorionic somatomammotropin hormone	P0DML2 P0DML3	40	1
9171-11_3	Cysteine and glycine-rich protein 3	P50461	40	40
8476-11_3	Chromogranin-A	P10645	1	1
9204-33_3	Pro-opiomelanocortin	P01189	40	40
13126-52_3	Desmocollin-2	Q02487	1	1

SeqId	Target Full Name	UniProt	Dilution in Plasma	Dilution in Serum
9175-48_3	Down syndrome cell adhesion molecule	O60469	40	40
13104-32_3	Ephrin-B1	P98172	1	1
14131-37_3	Ephrin-B2	P52799	40	40
5509-7_3	Epidermal growth factor	P01133	1	1
5328-33_37	Epidermal growth factor receptor variant III	P00533	40	40
9168-31_3	C-C motif chemokine 26	Q9Y258	40	40
14124-6_3	Ephrin-A2	O43921	1	1
14153-8_3	Ephrin-A3	P52797	40	40
11516-7_3	Fatty acid-binding protein, liver	P07148	40	40
9177-6_3	Protein FAM3B	P58499	1	1
13102-1_3	Protein FAM3D	Q96BQ1	40	1
8480-29_3	EGF-containing fibulin-like extracellular matrix protein 1	Q12805	0.005	0.005
13122-19_3	Leucine-rich repeat transmembrane protein FLRT2	O43155	40	40
13123-3_3	Leucine-rich repeat transmembrane protein FLRT3	Q9NZU0	40	40
13112-179_3	Follistatin-related protein 1	Q12841	1	1
9213-24_3	Formimidoyltransferase-cyclodeaminase	O95954	40	40
5392-73_2	Tumor necrosis factor receptor superfamily member 6	P25445	1	1
12060-28_3	Growth/differentiation factor 11	O95390	40	40
5822-22_3	Glial cell line-derived neurotrophic factor	P39905	40	40
14123-34_3	Platelet receptor Gi24	Q9H7M9	1	1
5350-14_2	Glypican-6	Q9Y625	1	1
11081-1_3	Glycerol-3-phosphate dehydrogenase [NAD(+)], cytoplasmic	P21695	40	40
5464-52_3	Growth factor receptor-bound protein 2	P62993	40	1
9196-8_3	Galectin-7	P47929	1	1
5897-58_3	Gastrin-releasing peptide	P07492	40	40
14144-3_3	Histone H2A type 3	Q7L7L0	1	1
14143-8_3	Histone H2B type 2-E	Q16778	40	40
14146-92_3	Histone H3.1	P68431	40	40
11096-57_3	HemK methyltransferase family member 2	Q9Y5N5	1	1
8462-18_3	Somatotropin	P01241	40	40
14132-21_3	HERV-H LTR-associating protein 2	Q9UM44	40	1
13089-6_3	Hypoxia-inducible factor 1-alpha	Q16665	40	1
9187-2_3	Non-histone chromosomal protein HMG-14	P05114	1	1
11103-24_3	Heat shock protein beta-1	P04792	40	40
5467-15_3	Heat shock protein HSP 90-beta	P08238	1	1
13131-5_3	Hexokinase-1	P19367	40	1
13130-150_3	Hexokinase-2	P52789	40	40
9183-7_3	Interferon alpha/beta receptor 1	P17181	40	1
14127-240_3	Interferon beta	P01574	40	40
14128-121_3	Interferon alpha-10	P01566	40	40
14129-1_3	Interferon alpha-7	P01567	40	40
14133-93_3	Interleukin-1 receptor type 2	P27930	1	1
10344-334_3	Interleukin-10 receptor subunit alpha	Q13651	1	1
14150-7_3	Interleukin-36 alpha	Q9UHA7	1	1
14149-9_3	Interleukin-36 beta	Q9NZH7	40	40
5353-89_2	Interleukin-1 receptor antagonist protein	P18510	40	1
5834-18_3	Interleukin-9	P15248	40	40
9180-6_3	Interferon gamma receptor 2	P38484	40	40
10351-51_3	Interferon regulatory factor 1	P10914	40	1

SeqId	Target Full Name	UniProt	Dilution in Plasma	Dilution in Serum
13124-20_3	Immunoglobulin superfamily containing leucine-rich repeat protein 2	Q6UXK2	40	1
11089-7_3	Immunoglobulin A	P01876 P01877	0.005	0.005
8485-7_3	Kelch-like ECH-associated protein 1	Q14145	40	1
13129-40_3	Low-density lipoprotein receptor	P01130	40	40
9197-4_3	Galectin-9	O00182	40	40
11094-104_3	Galectin-10	Q05315	40	40
7640-29_3	Low-density lipoprotein receptor-related protein 1B	Q9NZR2	0.005	0.005
10990-21_3	Leucine-rich repeat serine/threonine-protein kinase 2	Q55007	1	1
13133-73_3	Latent-transforming growth factor beta-binding protein 4	Q8N2S1	1	1
13107-9_3	Ly6/PLAUR domain-containing protein 3	O95274	40	1
7638-30_3	Vesicular integral-membrane protein VIP36	Q12907	1	0.005
13114-50_3	Lumican	P51884	0.005	0.005
4374-45_2	Growth/differentiation factor 15	Q99988	1	1
9188-119_3	C-X-C motif chemokine 9	Q07325	40	40
6151-18_3	Dual specificity mitogen-activated protein kinase kinase 3	P46734	40	40
9176-3_3	Mucin-1	P15941	40	40
7648-9_3	Myosin-binding protein C, slow-type	Q00872	40	1
10358-33_3	Induced myeloid leukemia cell differentiation protein Mcl-1	Q07820	40	40
14583-49_3	Growth/differentiation factor 8	O14793	40	1
7655-11_3	N-terminal pro-BNP	P16860	40	40
13109-82_3	Neuronal growth regulator 1	Q7Z3B1	1	1
6649-51_3	Netrin-1	O95631	40	40
9178-30_3	Neuregulin-1	Q02297	40	40
14139-16_3	Neuregulin-4	Q8WWG1	40	40
10339-48_3	Gamma-enolase	P09104	40	1
10361-25_3	2'-5'-oligoadenylate synthase 1	P00973	40	40
11067-13_3	Osteocalcin	P02818	1	1
13113-7_3	Osteopontin	P10451	40	1
5253-1_1	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1A	P54750	40	40
10366-11_3	Platelet-derived growth factor receptor alpha	P16234	40	40
11098-1_3	Pyridoxal kinase	O00764	40	40
9211-19_3	Pigment epithelium-derived factor	P36955	0.005	0.005
5915-58_3	Peroxisomal targeting signal 1 receptor	P50542	40	40
9173-21_3	Phosphoglucomutase-1	P36871	40	40
14114-18_3	PILR alpha-associated neural protein	Q8IYJ0	40	40
10342-55_3	E3 SUMO-protein ligase PIAS4	Q8N2W9	40	40
5360-9_2	RAC-beta serine/threonine-protein kinase	P31751	40	1
9216-100_3	Plexin-B2	O15031	1	1
13095-51_3	Lithostathine-1-alpha	P05451	0.005	0.005
6641-60_3	PolyUbiquitin K48-linked	P0CG47	1	1
6647-55_3	PolyUbiquitin K63-linked	P0CG48	40	1
9207-60_3	Quinone oxidoreductase-like protein 1	O95825	1	1
5271-5_1	Ras-related C3 botulinum toxin substrate 3	P60763	40	40
11102-22_3	Regenerating islet-derived protein 4	Q9BYZ8	1	1
14120-2_3	E3 ubiquitin-protein ligase RNF43	Q68DV7	40	1
8470-213_3	Ribonuclease H1	O60930	40	40
5484-63_3	40S ribosomal protein S3a	P61247	40	40
13094-75_3	R-spondin-3	Q9BXY4	40	40

SeqId	Target Full Name	UniProt	Dilution in Plasma	Dilution in Serum
8464-31_3	R-spondin-4	Q2I0M5	40	40
14135-3_3	Relaxin receptor 1	Q9HBX9	40	40
5852-6_3	Protein S100-A12	P80511	1	1
14116-129_3	Protein S100-A4	P26447	1	1
13090-17_3	Protein S100-A6	P06703	1	1
5921-58_3	Protein S100-A7	P31151	40	40
13093-6_3	Secreted and transmembrane protein 1	Q8WVN6	1	1
13132-14_3	Semaphorin-5A	Q13591	40	1
5121-3_2	Semaphorin-6B	Q9H3T3	40	40
5430-66_3	Tyrosine-protein phosphatase non-receptor type substrate 1	P78324	40	40
3643-90_2	SLIT and NTRK-like protein 1	Q96PX8	40	1
10364-6_3	Mothers against decapentaplegic homolog 2	Q15796	40	40
10363-13_3	Mothers against decapentaplegic homolog 3	P84022	40	1
13118-5_3	SPARC-related modular calcium-binding protein 1	Q9H4F8	1	1
13105-7_3	Synaptosomal-associated protein 25	P60880	40	1
8463-2_3	Extracellular superoxide dismutase [Cu-Zn]	P08294	0.005	0.005
13101-60_3	Sclerostin	Q9BQB4	40	40
10370-21_3	Signal transducer and activator of transcription 1-alpha/beta	P42224	40	40
10346-5_3	Signal transducer and activator of transcription 3	P40763	1	1
10372-18_3	Signal transducer and activator of transcription 6	P42226	1	1
9169-14_3	Small ubiquitin-related modifier 3	P55854	1	1
9185-15_3	Trefoil factor 1	P04155	40	40
11101-18_3	Toll-like receptor 4	O00206	40	40
5534-49_2	Tumor necrosis factor receptor superfamily member 10B	O14763	40	40
14121-24_3	Tumor necrosis factor receptor superfamily member 10D	Q9UBN6	40	40
5947-90_3	Thrombopoietin	P40225	40	40
9201-13_3	Transgelin-2	P37802	1	1
9191-8_3	Trefoil factor 2	Q03403	40	1
7660-21_3	Tropomyosin alpha-4 chain	P67936	1	1
5315-22_3	Troponin T, cardiac muscle	P45379	40	1
9199-6_3	Ubiquitin-conjugating enzyme E2 G2	P60604	1	1
9215-117_3	Ubiquitin carboxyl-terminal hydrolase 25	Q9UHP3	40	40
14151-4_3	Ubiquitin-like protein ISG15	P05161	40	40
5275-28_2	Proto-oncogene vav	P15498	40	40
13098-93_3	Vascular endothelial growth factor D	O43915	1	1
13125-45_3	Vitronectin	P04004	1	1
5927-4_3	WNT1-inducible-signaling pathway protein 3	O95389	40	40
5493-17_3	Serine/threonine-protein kinase WNK3	Q9BYP7	1	1
11104-13_3	Chitinase-3-like protein 1	P36222	1	1
14122-132_3	E3 ubiquitin-protein ligase ZNRF3	Q9ULT6	40	40
8458-111_3	Alpha-synuclein	P37840	40	1
5864-10_3	Fructose-bisphosphate aldolase A	P04075	1	1
10356-21_3	Transcription factor AP-1	P05412	40	40
10362-35_3	Myc proto-oncogene protein	P01106	40	40
5885-55_3	Eukaryotic translation initiation factor 4H	Q15056	40	1
8447-11_3	Appetite-regulating hormone	Q9UBU3	40	40
6152-111_3	Cellular tumor antigen p53	P04637	1	1
13119-26_3	Protein Z-dependent protease inhibitor	Q9UK55	1	1
9182-3_3	Low-density lipoprotein receptor-related protein 1, soluble	Q07954	40	40

Replaced SOMAmer Reagents

SOMAmer Reagents Reported in 1.1k					SOMAmer Reagents Reported in 1.3k				
SeqId	Target Full Name	UniProt	Dil. in Plasma	Dil. in Serum	SeqId	Target Full Name	UniProt	Dil. in Plasma	Dil. in Serum
2850-3_2	Arginase-1	P05089	40	40	5867-60_3	Arginase-1	P05089	40	40
3876-15_2	Asialoglycoprotein receptor 1	P07306	40	40	5452-71_3	Asialoglycoprotein receptor 1	P07306	40	1*
4383-97_1	Inhibin beta A chain:Inhibin beta B chain heterodimer	P08476 P09529	40	40	8467-9_3	Inhibin beta A chain:Inhibin beta B chain heterodimer	P08476 P09529	40	40
3736-60_3	Bone morphogenetic protein 6	P22004	40	1	8459-10_3	Bone morphogenetic protein 6	P22004	40	1
4875-73_1	Complement C3d fragment	P01024	40	40	5803-24_3	Complement C3d fragment	P01024	0.005*	0.005*
5317-3_3	CD70 antigen	P32970	1	1	5807-77_3	CD70 antigen	P32970	40*	40*
3604-6_4	Beta-Ala-His dipeptidase	Q96KN2	1	1	5456-59_2	Beta-Ala-His dipeptidase	Q96KN2	0.005*	0.005*
3665-64_3	Collectin-12	Q5KU26	40	1	5457-5_2	Collectin-12	Q5KU26	40	40*
3180-46_2	Cathepsin D	P07339	0.005	0.005	5508-62_3	Cathepsin D	P07339	0.005	0.005
3737-6_3	Cathepsin H	P09668	1	1	8465-52_3	Cathepsin H	P09668	40*	40*
2672-60_1	Teratocarci ma-derived growth factor 1	P13385	40	40	5810-25_3	Teratocarci ma-derived growth factor 1	P13385	40	40
3104-8_2	ATP-dependent RNA helicase DDX19B	Q9UMR2	40	40	5460-60_3	ATP-dependent RNA helicase DDX19B	Q9UMR2	40	40
4210-19_2	Dynactin subunit 2	Q13561	40	40	5879-51_3	Dynactin subunit 2	Q13561	1*	1*
3882-10_1	Elongation factor 1-beta	P24534	40	40	5882-34_2	Elongation factor 1-beta	P24534	40	40
3492-58_1	Erythropoietin	P01588	40	40	5813-58_3	Erythropoietin	P01588	40	40
4696-2_2	Fatty acid-binding protein, heart	P05413	40	40	5437-63_3	Fatty acid-binding protein, heart	P05413	1*	1*
3031-66_1	Ferritin	P02794 P02792	0.005	0.005	5934-1_3	Ferritin	P02794 P02792	1*	1*
3811-1_2	Ficolin-3	O75636	1	1	5462-62_3	Ficolin-3	O75636	0.005*	0.005*
3190-43_1	Growth arrest-specific protein 1	P54826	40	40	5463-22_3	Growth arrest-specific protein 1	P54826	1*	1*
5079-11_3	Tumor necrosis factor receptor superfamily member 18	Q9Y5U5	40	40	5526-53_3	Tumor necrosis factor receptor superfamily member 18	Q9Y5U5	40	40
4552-13_2	Heparan-sulfate 6-O-sulfotransferase 1	O60243	40	40	5465-32_3	Heparan-sulfate 6-O-sulfotransferase 1	O60243	1*	1*
3886-72_1	Histidine triad nucleotide-binding protein 1	P49773	40	40	5900-11_2	Histidine triad nucleotide-binding protein 1	P49773	40	40
4228-37_2	Heat shock cognate 71 kDa protein	P11142	40	40	5903-91_2	Heat shock cognate 71 kDa protein	P11142	1*	1*
2989-17_2	Interferon gamma	P01579	40	40	14147-50_3	Interferon gamma	P01579	40	40
3716-63_2	Interferon gamma receptor 1	P15260	40	40	5825-49_3	Interferon gamma receptor 1	P15260	40	40
2570-72_5	Insulin-like growth factor-binding protein 2	P18065	1	1	8469-41_3	Insulin-like growth factor-binding protein 2	P18065	0.005*	0.005*
2455-17_4	Interleukin-12	P29459, P29460	40	40	10367-62_3	Interleukin-12	P29459, P29460	40	40
3498-53_2	Interleukin-17A	Q16552	40	40	9170-24_3	Interleukin-17A	Q16552	40	40
4494-63_2	Interleukin-23	P29460, Q9NPF7	40	40	10365-132_3	Interleukin-23	P29460, Q9NPF7	40	40
3741-4_3	Interleukin-5	P05113	40	1	11071-1_3	Interleukin-5	P05113	40	40*
3700-15_4	Immu globulin G	P01857	0.005	0.005	2744-57_2	Immu globulin G	P01857	0.005	0.005
4919-56_2	Leukemia inhibitory factor receptor	P42702	40	40	5837-49_3	Leukemia inhibitory factor receptor	P42702	40	40
2575-5_5	Leptin	P41159	40	1	8484-24_3	Leptin	P41159	1*	1*

SOMamer Reagents Reported in 1.1k					SOMamer Reagents Reported in 1.3k				
SeqId	Target Full Name	UniProt	Dil. in Plasma	Dil. in Serum	SeqId	Target Full Name	UniProt	Dil. in Plasma	Dil. in Serum
3892-21_2	Mediator of RNA polymerase II transcription subunit 1	Q15648	40	40	5470-69_2	Mediator of RNA polymerase II transcription subunit 1	Q15648	1*	1*
3743-1_2	Stromelysin-2	P09238	40	40	8479-4_3	Stromelysin-2	P09238	40	40
2954-56_2	Neutrophil collagenase	P22894	1	1	9172-69_3	Neutrophil collagenase	P22894	40*	1
2957-21_2	Histone-lysine N-methyltransferase EHMT2	Q96KQ7	40	40	5843-60_3	Histone-lysine N-methyltransferase EHMT2	Q96KQ7	1*	1*
3214-3_2	Neuropilin-1	O14786	0.005	0.005	5542-22_2	Neuropilin-1	O14786	0.005	0.005
2735-6_4	ggin	Q13253	40	1	5846-24_3	ggin	Q13253	40	1
4252-33_4	Nucleoside diphosphate kinase A	P15531	0.005	0.005	5909-51_3	Nucleoside diphosphate kinase A	P15531	1*	1*
4593-11_1	Pituitary adenylate cyclase-activating polypeptide 27	P18509	40	1	8446-4_3	Pituitary adenylate cyclase-activating polypeptide 27	P18509	40	40*
4594-22_2	Pituitary adenylate cyclase-activating polypeptide 38	P18509	40	40	8450-36_3	Pituitary adenylate cyclase-activating polypeptide 38	P18509	40	40
4330-4_2	Prostate-specific antigen	P07288	40	40	8468-19_3	Prostate-specific antigen	P07288	40	40
3218-8_2	Glutamate carboxypeptidase 2	Q04609	40	1	5478-50_2	Glutamate carboxypeptidase 2	Q04609	40	40*
5022-61_1	Proteasome activator complex subunit 1	Q06323	1	1	5918-5_3	Proteasome activator complex subunit 1	Q06323	1	1
3726-62_4	Parathyroid hormone	P01270	40	40	5954-62_3	Parathyroid hormone	P01270	40	40
2523-31_3	C-C motif chemokine 5	P13501	1	0.005	5480-49_3	C-C motif chemokine 5	P13501	1	1*
4462-8_2	Ras GTPase-activating protein 1	P20936	40	40	5481-16_3	Ras GTPase-activating protein 1	P20936	40	40
3641-49_4	Reti I-binding protein 4	P02753	0.005	0.005	5482-61_3	Reti I-binding protein 4	P02753	0.005	0.005
3833-10_2	Repulsive guidance molecule A	Q96B86	40	1	5483-1_3	Repulsive guidance molecule A	Q96B86	1*	1
2590-69_4	Tyrosine-protein kinase transmembrane receptor ROR1	Q01973	1	1	8474-6_3	Tyrosine-protein kinase transmembrane receptor ROR1	Q01973	1	1
3729-16_2	Somatostatin-28	P61278	40	40	5957-30_3	Somatostatin-28	P61278	40	40
3722-49_2	Tumor necrosis factor	P01375	40	40	5936-53_3	Tumor necrosis factor	P01375	40	40
2484-49_3	Tumor necrosis factor ligand superfamily member 12	O43508	1	1	5939-42_3	Tumor necrosis factor ligand superfamily member 12	O43508	40*	40*
4368-8_2	beta-nerve growth factor	P01138	40	40	5801-72_3	beta-nerve growth factor	P01138	40	40
2424-69_4	Fibroblast growth factor receptor 1	P11362	1	1	5532-53_3	Fibroblast growth factor receptor 1	P11362	0.005*	0.005*
3884-5_1	Eukaryotic translation initiation factor 5A-1	P63241	40	40	5888-29_3	Eukaryotic translation initiation factor 5A-1	P63241	40	1*
3739-72_4	Integrin alpha-IIb: beta-3 complex	P08514 P05106	40	1	8488-33_3	Integrin alpha-IIb: beta-3 complex	P08514 P05106	40	40*
2842-68_1	Intercellular adhesion molecule 2	P13598	40	40	5486-73_3	Intercellular adhesion molecule 2	P13598	1*	1*
2653-62_1	Microtubule-associated protein tau	P10636	40	40	5854-60_3	Microtubule-associated protein tau	P10636	40	40

*Change in dilution

Removed SOMAmer Reagents

SeqId	Target Full Name	UniProt
3804-66_2	Dentin matrix acidic phosphoprotein 1	Q13316
3814-63_1	Interleukin-11 receptor subunit alpha	Q14626

Renamed SOMAmer Reagents

Old SOMAmer Reagent			New SOMAmer Reagent		
SeqId	Analyte	UniProt	SeqId	Analyte	UniProt
2765-4_3	Growth/differentiation factor 11	O95390	2765-4_3	Growth/differentiation factor 11/8	O95390 O14793
3310-62_1	Low affinity immunoglobulin gamma Fc region receptor II-a/b	P12318, P31994	3310-62_1	Low affinity immunoglobulin gamma Fc region receptor II-b	P31994
3390-72_2	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform:Phosphatidylinositol 3-kinase regulatory subunit alpha complex	P42336, P27986	3390-72_2	PIK3CA/PIK3R1	P42336 P27986
3392-68_2	Protein kinase B alpha/beta/gamma	P31749, P31751, Q94243	3392-68_2	RAC-alpha/beta/gamma serine/threonine-protein kinase	P31749 P31751 Q9Y243
4124-24_2	Heat shock 70 kDa protein 1A/1B	P08107	4124-24_2	Heat shock 70 kDa protein 1A	P08107
4546-27_3	EGF-like module-containing mucin-like hormone receptor-like 2	Q9UHX3	4546-27_3	Adhesion G protein-coupled receptor E2	Q9UHX3
4551-72_3	Probable G-protein coupled receptor 114	Q8IZF4	4551-72_3	Adhesion G-protein coupled receptor G5	Q8IZF4
5016-61_2	Protein DJ-1	Q99497	5016-61_2	Protein deglycase DJ-1	Q99497
5029-3_1	Seprase	Q12884	5029-3_1	Prolyl endopeptidase FAP	Q12884