

**enriched GO terms of increased proteins (biological process)**

GO Term	Description	P-value	FDR q-value	Enrichment	N	B	n	b	Genes
GO:0072376	protein activation cascade	5.01E-20	5.7E-16	20,17	4935	26	160	17	[Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, C3 - complement component 3, C4b - complement component 4b (chido blood group), Fn1 - fibronectin 1, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Apoh - apolipoprotein h, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Fgb - fibrinogen beta chain]
GO:0006959	humoral immune response	5.1E-16	2.9E-12	14,95	4935	33	160	16	[C3 - complement component 3, Krt1 - keratin 1, Igkc - immunoglobulin kappa constant, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, C1qa - complement component 1, q subcomponent, alpha polypeptide, Hrg - histidine-rich glycoprotein, C1qb - complement component 1, q subcomponent, beta polypeptide, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Fgb - fibrinogen beta chain]
GO:0052547	regulation of peptidase activity	2.45E-15	9.28E-12	6,12	4935	141	160	28	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Gsn - gelsolin, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Lgmn - legumain, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ctsd - cathepsin d, Kng1 - kininogen 1, Hrg - histidine-rich glycoprotein, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Ddrgk1 - ddrkg domain containing 1, Vtn - vitronectin, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Pdcd5 - programmed cell death 5, Ncstn - nicastrin, Mug1 - murinoglobulin 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0002376	immune system process	8.95E-15	2.55E-11	3,78	4935	343	160	42	[Scg2 - secretogranin ii, Anxa3 - annexin a3, Plg - plasminogen, Aif1 - allograft inflammatory factor 1, Lcp1 - lymphocyte cytosolic protein 1, Irgm1 - immunity-related gtpase family m member 1, Fgg - fibrinogen gamma chain, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Krt1 - keratin 1, Igkc - immunoglobulin kappa constant, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Itgam - integrin alpha m, Lgals1 - lectin, galactose binding, soluble 1, Hp - haptoglobin, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, Itga6 - integrin alpha 6, F2 - coagulation factor ii, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Vtn - vitronectin, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Ampd3 - adenosine monophosphate deaminase 3, Ighm - immunoglobulin heavy constant mu, Ncstn - nicastrin, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen, Stat1 - signal transducer and activator of transcription 1]
GO:0006956	complement activation	1.4E-14	3.2E-11	20,56	4935	18	160	12	[Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, C3 - complement component 3, C4b - complement component 4b (chido blood group), Cfb - complement factor b, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), C1qc - complement component 1, q subcomponent, c chain, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide]
GO:0030162	regulation of proteolysis	1.13E-13	2.14E-10	4,07	4935	273	160	36	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Pzp - pregnancy zone protein, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Gsn - gelsolin, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Fhit - fragile histidine triad gene, Cfh - complement component factor h, Ctsd - cathepsin d, Kng1 - kininogen 1, Ide - insulin degrading enzyme, C3 - complement component 3, F2 - coagulation factor ii, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrkg domain containing 1, Vtn - vitronectin, Gba - glucosidase, beta, acid, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Pdcd5 - programmed cell death 5, Clu - clusterin, Ncstn - nicastrin, Comm1 - comm domain containing 1, Stat3 - signal transducer and activator of transcription 3, Mug1 - murinoglobulin 1, Stat1 - signal transducer and activator of transcription 1]
GO:0010466	negative regulation of peptidase activity	1.36E-12	2.21E-9	7,71	4935	76	160	19	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Mug1 - murinoglobulin 1, Kng1 - kininogen 1]

GO:0006952	defense response	2.8E-12	3.99E-9	4,36	4935	212	160	30	[Serpina1b - serine (or cysteine) prepeptidase inhibitor, clade a, member 1b, Anxa3 - annexin a3, Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Cst3 - cystatin c, Irgm1 - immunity-related gtpase family m member 1, Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, C3 - complement component 3, Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, Hp - haptoglobin, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Ighg2b - immunoglobulin heavy constant gamma 2b, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Orm1 - orosomucoid 1, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Ighm - immunoglobulin heavy constant mu, Stat3 - signal transducer and activator of transcription 3, Tspan2 - tetraspanin 2, Stat1 - signal transducer and activator of transcription 1]
GO:0045861	negative regulation of proteolysis	7.43E-12	9.39E-9	5,59	4935	127	160	23	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) prepeptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, F2 - coagulation factor ii, Cst3 - cystatin c, Hrg - histidine-rich glycoprotein, Ddrgrk1 - ddrgrk domain containing 1, Vtn - vitronectin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Fhit - fragile histidine triad gene, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Mug1 - murinoglobulin 1, Kng1 - kininogen 1, Ide - insulin degrading enzyme]
GO:0002252	immune effector process	1.61E-11	1.83E-8	6,36	4935	97	160	20	[Krt1 - keratin 1, Igkc - immunoglobulin kappa constant, C3 - complement component 3, Anxa3 - annexin a3, Lgals1 - lectin, galactose binding, soluble 1, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, Lcp1 - lymphocyte cytosolic protein 1, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Clu - clusterin, Cfh - complement component factor h, Stat1 - signal transducer and activator of transcription 1]
GO:0032101	regulation of response to external stimulus	5.73E-11	5.93E-8	3,89	4935	238	160	30	[Scg2 - secretogranin ii, Plg - plasminogen, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, C3 - complement component 3, Krt1 - keratin 1, Fabp7 - fatty acid binding protein 7, brain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Tgm2 - transglutaminase 2, c polypeptide, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Apoa1 - apolipoprotein a-i, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2]
GO:0006955	immune response	1.93E-10	1.83E-7	4,79	4935	148	160	23	[C3 - complement component 3, Krt1 - keratin 1, Igkc - immunoglobulin kappa constant, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Irgm1 - immunity-related gtpase family m member 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Stat3 - signal transducer and activator of transcription 3, Fgb - fibrinogen beta chain]
GO:0042730	fibrinolysis	2.58E-10	2.26E-7	26,99	4935	8	160	7	[Plg - plasminogen, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0052548	regulation of endopeptidase activity	2.88E-10	2.34E-7	5,18	4935	125	160	21	[Serpina1b - serine (or cysteine) prepeptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Gsn - gelsolin, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Lgmn - legumain, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Pcd5 - programmed cell death 5, Ncstn - nicastrin, Ctsd - cathepsin d, Stat3 - signal transducer and activator of transcription 3, Kng1 - kininogen 1, Stat1 - signal transducer and activator of transcription 1]
GO:0002684	positive regulation of immune system process	4.26E-10	3.23E-7	3,95	4935	211	160	27	[Aif1 - allograft inflammatory factor 1, Lamp1 - lysosomal-associated membrane protein 1, Irgm1 - immunity-related gtpase family m member 1, Lgmn - legumain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2, Hpx - hemopexin, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]

GO:0050817	coagulation blood	4.49E-10	3.19E-7	14,02	4935	22	160	10	[C3 - complement component 3, Apoh - apolipoprotein h, Plg - plasminogen, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1]
GO:0007596	coagulation	4.49E-10	3.00E-07	14,02	4935	22	160	10	[C3 - complement component 3, Apoh - apolipoprotein h, Plg - plasminogen, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Kng1 - kininogen 1, Fgb - fibrinogen beta chain]
GO:0007599	hemostasis negative regulation of	7.72E-10	4.88E-7	13,41	4935	23	160	10	[C3 - complement component 3, Apoh - apolipoprotein h, Plg - plasminogen, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1]
GO:1900047	hemostasis negative regulation of blood	1.2E-9	7.18E-7	15,42	4935	18	160	9	[ApoH - apolipoprotein h, Plg - plasminogen, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0030195	coagulation negative regulation of	1.2E-9	6.82E-7	15,42	4935	18	160	9	[ApoH - apolipoprotein h, Plg - plasminogen, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Anxa2 - annexin a2]
GO:0050819	coagulation	1.2E-9	6.49E-7	15,42	4935	18	160	9	[ApoH - apolipoprotein h, Plg - plasminogen, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0002526	acute inflammatory response complement activation, classical pathway	2.61E-9	1.35E-6	17,62	4935	14	160	8	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Hp - haptoglobin, Orm1 - orosomucoid 1, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), F2 - coagulation factor ii, Stat3 - signal transducer and activator of transcription 3]
GO:0006958		2.61E-9	1.29E-6	17,62	4935	14	160	8	[Igkc - immunoglobulin kappa constant, C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), C1qc - complement component 1, q subcomponent, c chain, Ighm - immunoglobulin heavy constant mu, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide]
GO:1900046	regulation of hemostasis	3.09E-9	1.46E-6	10,28	4935	33	160	11	[ApoH - apolipoprotein h, Plg - plasminogen, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Hrg - histidine-rich glycoprotein, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0030193	regulation of blood coagulation	3.09E-9	1.4E-6	10,28	4935	33	160	11	[ApoH - apolipoprotein h, Plg - plasminogen, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Anxa2 - annexin a2]
GO:0051336	regulation of hydrolase activity	3.19E-9	1.4E-6	2,82	4935	405	160	37	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Gsn - gelsolin, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Apoh - apolipoprotein h, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Lgmn - legumain, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ctcd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itga6 - integrin alpha 6, Arhgap22 - rho gtpase activating protein 22, Hrg - histidine-rich glycoprotein, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Tpm1 - tropomyosin 1, alpha, Scarb2 - scavenger receptor class b, member 2, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Pdcd5 - programmed cell death 5, Ncstn - nicastrin, ApoA1 - apolipoprotein a-i, Mug1 - murinoglobulin 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0002682	regulation of immune system process	3.25E-9	1.37E-6	3,07	4935	332	160	33	[Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Lamp1 - lysosomal-associated membrane protein 1, Apod - apolipoprotein d, Lgmn - legumain, Irgm1 - immunity-related gtpase family m member 1, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, C3 - complement component 3, Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Itgb3 - integrin beta 3, Rbp1 - retinol binding protein 1, cellular, Itgb2 - integrin beta 2, Hpx - hemopexin, Orm1 - orosomucoid 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, ApoA1 - apolipoprotein a-i, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0006953	acute-phase response	3.66E-9	1.49E-6	21,59	4935	10	160	7	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Hp - haptoglobin, Orm1 - orosomucoid 1, F2 - coagulation factor ii, Stat3 - signal transducer and activator of transcription 3]

GO:0051346	negative regulation of hydrolase activity	3.72E-9	1.46E-6	4,53	4935	143	160	21	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Apoa1 - apolipoprotein a-i, Mug1 - murinoglobulin 1, Kng1 - kininogen 1]
GO:0050778	positive regulation of immune response	3.95E-9	1.5E-6	4,75	4935	130	160	20	[Krt1 - keratin 1, Igkc - immunoglobulin kappa constant, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Itgam - integrin alpha m, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2, Hpx - hemopexin, Irgm1 - immunity-related gtpase family m member 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h]
GO:0050818	regulation of coagulation	4.44E-9	1.63E-6	9,98	4935	34	160	11	[ApoH - apolipoprotein h, Plg - plasminogen, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Hrg - histidine-rich glycoprotein, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0001775	cell activation	4.53E-9	1.61E-6	4,71	4935	131	160	20	[Igkc - immunoglobulin kappa constant, Anxa3 - annexin a3, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, F2 - coagulation factor ii, Lcp1 - lymphocyte cytosolic protein 1, C1qa - complement component 1, q subcomponent, alpha polypeptide, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Clu - clusterin, Ncstn - nicastrin, Cd151 - cd151 antigen, Fgb - fibrinogen beta chain]
GO:0050896	response to stimulus	6.55E-9	2.26E-6	1,76	4935	1364	160	78	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Fn1 - fibronectin 1, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, ApoH - apolipoprotein h, Apod - apolipoprotein d, P4hb - prolyl 4-hydroxylase, beta polypeptide, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Alb - albumin, Kng1 - kininogen 1, Igkc - immunoglobulin kappa constant, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itgam - integrin alpha m, Cp - ceruloplasmin, F2 - coagulation factor ii, Fapb7 - fatty acid binding protein 7, brain, Itga6 - integrin alpha 6, Mgst1 - microsomal glutathione s-transferase 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Gss - glutathione synthetase, Rbp1 - retinol binding protein 1, cellular, Itgb2 - integrin beta 2, Orm1 - orosomucoid 1, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2, Tspan2 - tetraspanin 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Anxa3 - annexin a3, S100a16 - s100 calcium binding protein a16, Lcp1 - lymphocyte cytosolic protein 1, Cst3 - cystatin c, Lamp2 - lysosomal-associated membrane protein 2, Lgmn - legumain, Irgm1 - immunity-related gtpase family m member 1, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Krt1 - keratin 1, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Crot - carnitine o-octanoyltransferase, Cfb - complement factor b, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, Hrg - histidine-rich glycoprotein, C1qb - complement component 1, q subcomponent, beta polypeptide, Ddrgk1 - ddrkg domain containing 1, Ybx1 - y box protein 1, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Pdcd5 - programmed cell death 5, Ncstn - nicastrin, Clu - clusterin, Commd1 - comm domain containing 1, Tbl2 - transducin (beta)-like 2, Ces1c - carboxylesterase 1c]
GO:0016064	immune response	2.81E-8	9.4E-6	23,13	4935	8	160	6	[C4b - complement component 4b (chido blood group), Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h]
GO:0019724	B cell mediated immunity	2.81E-8	9.14E-6	23,13	4935	8	160	6	[C4b - complement component 4b (chido blood group), Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h]
GO:0009617	response to bacterium	3.71E-8	1.17E-5	6,68	4935	60	160	13	[Igkc - immunoglobulin kappa constant, C3 - complement component 3, Anxa3 - annexin a3, Hp - haptoglobin, Ighg2b - immunoglobulin heavy constant gamma 2b, Irgm1 - immunity-related gtpase family m member 1, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Stat1 - signal transducer and activator of transcription 1, Fgb - fibrinogen beta chain, Ces1c - carboxylesterase 1c]

GO:0006911	phagocytosis, engulfment	4.14E-8	1.27E-5	11,10	4935	25	160	9	[Ilgc - immunoglobulin kappa constant, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Gsn - gelsolin, Itgb2 - integrin beta 2]
GO:0045087	innate immune response	4.24E-8	1.27E-5	5,19	4935	95	160	16	[Ilgc - immunoglobulin kappa constant, C3 - complement component 3, Krt1 - keratin 1, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Ighg2b - immunoglobulin heavy constant gamma 2b, Irgm1 - immunity-related gtpase family m member 1, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Fgb - fibrinogen beta chain]
GO:0050878	regulation of body fluid levels	4.3E-8	1.25E-5	5,57	4935	83	160	15	[Wfs1 - wolfram syndrome 1 homolog (human), C3 - complement component 3, Krt1 - keratin 1, Plg - plasminogen, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Gba - glucosidase, beta, acid, Apoh - apolipoprotein h, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0008284	positive regulation of cell proliferation	6.03E-8	1.71E-5	3,35	4935	230	160	25	[Scg2 - secretogranin ii, Fn1 - fibronectin 1, Mvd - mevalonate (diphospho) decarboxylase, Aif1 - allograft inflammatory factor 1, Cst3 - cystatin c, Flna - filamin, alpha, Lgmn - legumain, Crip2 - cysteine rich protein 2, Marcks1 - marcks-like 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, F2 - coagulation factor ii, S100a13 - s100 calcium binding protein a13, Ddrk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Ybx1 - y box protein 1, Tgm1 - transglutaminase 1, k polypeptide, Tgm2 - transglutaminase 2, c polypeptide, Gfap - glial fibrillary acidic protein, Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2]
GO:0080134	regulation of response to stress	6.74E-8	1.87E-5	2,56	4935	433	160	36	[Wfs1 - wolfram syndrome 1 homolog (human), Plg - plasminogen, Ahsg - alpha-2-hs-glycoprotein, Lamp1 - lysosomal-associated membrane protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Irgm1 - immunity-related gtpase family m member 1, P4hb - prollyl 4-hydroxylase, beta polypeptide, Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Krt1 - keratin 1, C3 - complement component 3, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Ybx1 - y box protein 1, Hpx - hemopexin, Tgm2 - transglutaminase 2, c polypeptide, Ighg2b - immunoglobulin heavy constant gamma 2b, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Clu - clusterin, Apoa1 - apolipoprotein a-i, Commd1 - comm domain containing 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2]
GO:0010951	negative regulation of endopeptidase activity	6.9E-8	1.87E-5	6,36	4935	63	160	13	[Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Kng1 - kininogen 1]
GO:0061045	negative regulation of wound healing	8.99E-8	2.38E-5	10,28	4935	27	160	9	[ApoH - apolipoprotein h, Plg - plasminogen, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Anxa2 - annexin a2]
GO:0002250	adaptive immune response	1.16E-7	2.99E-5	7,54	4935	45	160	11	[Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, C4b - complement component 4b (chido blood group), Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Stat3 - signal transducer and activator of transcription 3, Fgb - fibrinogen beta chain]
GO:0048584	positive regulation of response to stimulus	1.23E-7	3.11E-5	2,22	4935	611	160	44	[Plg - plasminogen, Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Lamp1 - lysosomal-associated membrane protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Lgmn - legumain, Irgm1 - immunity-related gtpase family m member 1, Fgg - fibrinogen gamma chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Krt1 - keratin 1, Igkc - immunoglobulin kappa constant, Glipr2 - gli pathogenesis-related 2, C3 - complement component 3, Itgb1 - integrin beta 1 (fibronectin receptor beta), H2-D1 - histocompatibility 2, d region locus 1, Itgam - integrin alpha m, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, S100a13 - s100 calcium binding protein a13, C1qa - complement component 1, q subcomponent, alpha polypeptide, Hrg - histidine-rich glycoprotein, C1qb - complement component 1, q subcomponent, beta polypeptide, Ddrk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2, Hpx - hemopexin, Tgm2 - transglutaminase 2, c polypeptide, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Clu - clusterin, Pdcd5 - programmed cell death 5, Apoa1 - apolipoprotein a-i, Stat3 - signal transducer and activator of transcription 3]

GO:0032102	negative regulation of response to external stimulus	1.58E-7	3.91E-5	4,75	4935	104	160	16	[Krt1 - keratin 1, Plg - plasminogen, Aif1 - allograft inflammatory factor 1, F2 - coagulation factor ii, Fabp7 - fatty acid binding protein 7, brain, Hrg - histidine-rich glycoprotein, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Apoh - apolipoprotein h, Apod - apolipoprotein d, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Apoa1 - apolipoprotein a-i, Sod1 - superoxide dismutase 1, soluble, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0065009	regulation of molecular function	1.62E-7	3.92E-5	1,92	4935	917	160	57	[Pzp - pregnancy zone protein, Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apoh - apolipoprotein h, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Itga6 - integrin alpha 6, F2 - coagulation factor ii, Arhgap22 - rho gtpase activating protein 22, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2, Scarb2 - scavenger receptor class b, member 2, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Ighm - immunoglobulin heavy constant mu, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Irs2 - insulin receptor substrate 2, Nptxr - neuronal pentraxin receptor, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Scn3b - sodium channel, voltage-gated, type iii, beta, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Anxa3 - annexin a3, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Cst3 - cystatin c, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Ctsd - cathepsin d, Pex19 - peroxisomal biogenesis factor 19, Sod1 - superoxide dismutase 1, soluble, Ide - insulin degrading enzyme, Hp - haptoglobin, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Pdcd5 - programmed cell death 5, Apoa1 - apolipoprotein a-i, Clu - clusterin, Ncstn - nicastrin, Nptx2 - neuronal pentraxin 2, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1]
GO:0050776	regulation of immune response	1.76E-7	4.18E-5	3,52	4935	193	160	22	[C3 - complement component 3, Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Itgam - integrin alpha m, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2, Hpx - hemopexin, Ighg2b - immunoglobulin heavy constant gamma 2b, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Irgm1 - immunity-related gtpase family m member 1, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Apoa1 - apolipoprotein a-i]
GO:0061041	regulation of wound healing	1.79E-7	4.15E-5	6,49	4935	57	160	12	[Plg - plasminogen, Itgb1 - integrin beta 1 (fibronectin receptor beta), Apoh - apolipoprotein h, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Anxa2 - annexin a2]
GO:0051246	regulation of protein metabolic process	2.12E-7	4.83E-5	1,90	4935	924	160	57	[Pzp - pregnancy zone protein, Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apod - apolipoprotein d, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ctsa - cathepsin a, Kng1 - kininogen 1, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, F2 - coagulation factor ii, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Vtn - vitronectin, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Ighm - immunoglobulin heavy constant mu, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fhit - fragile histidine triad gene, Cfh - complement component factor h, Ctsd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Hpx - hemopexin, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Pdcd5 - programmed cell death 5, Apoa1 - apolipoprotein a-i, Clu - clusterin, Ncstn - nicastrin, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1]
GO:0099024	plasma membrane invagination	2.52E-7	5.63E-5	9,25	4935	30	160	9	[Igkc - immunoglobulin kappa constant, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Gsn - gelsolin, Itgb2 - integrin beta 2]

GO:0050790	regulation of catalytic activity	3.05E-7	6.68E-5	2,10	4935	675	160	46	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Gsn - gelsolin, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Apoh - apolipoprotein h, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Lgmn - legumain, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Ctsd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Hp - haptoglobin, Itga6 - integrin alpha 6, F2 - coagulation factor ii, Arhgap22 - rho gtpase activating protein 22, Hrg - histidine-rich glycoprotein, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Scarb2 - scavenger receptor class b, member 2, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Ighm - immunoglobulin heavy constant mu, Clu - clusterin, Pdcd5 - programmed cell death 5, Irs2 - insulin receptor substrate 2, Apoa1 - apolipoprotein a-i, Ncstn - nicastrin, Mug1 - murinoglobulin 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0002253	activation of immune response	3.63E-7	7.79E-5	5,57	4935	72	160	13	[Igkc - immunoglobulin kappa constant, Krt1 - keratin 1, C3 - complement component 3, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h]
GO:0002705	positive regulation of leukocyte mediated immunity	4.68E-7	9.86E-5	8,67	4935	32	160	9	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0006954	inflammatory response	5.95E-7	1.23E-4	5,35	4935	75	160	13	[Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, C3 - complement component 3, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Hp - haptoglobin, F2 - coagulation factor ii, Orm1 - orosomuroid 1, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Cfh - complement component factor h, Tspan2 - tetraspanin 2, Stat3 - signal transducer and activator of transcription 3, Kng1 - kininogen 1]
GO:0002714	positive regulation of B cell mediated immunity	6.71E-7	1.36E-4	22,03	4935	7	160	5	[C3 - complement component 3, Hpx - hemopexin, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002891	positive regulation of immunoglobulin mediated response	6.71E-7	1.34E-4	22,03	4935	7	160	5	[Hpx - hemopexin, C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0010324	membrane invagination	8.27E-7	1.62E-4	8,16	4935	34	160	9	[Ilgkc - immunoglobulin kappa constant, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Gsn - gelsolin, Itgb2 - integrin beta 2]
GO:0044092	negative regulation of molecular function	1,00E-06	1.93E-4	2,57	4935	360	160	30	[Wfs1 - wolfram syndrome 1 homolog (human), Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Pex19 - peroxisomal biogenesis factor 19, Kng1 - kininogen 1, Hp - haptoglobin, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Apoa1 - apolipoprotein a-i, Irs2 - insulin receptor substrate 2, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1, Anxa2 - annexin a2]
GO:0001796	regulation of type Iia hypersensitivity	1.07E-6	2.02E-4	30,84	4935	4	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]

GO:0001798	positive regulation of type IIa hypersensitivity	1.07E-6	1.99E-4	30,84	4935	4	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002885	positive regulation of type II hypersensitivity	1.07E-6	1.96E-4	30,84	4935	4	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002892	positive regulation of type II hypersensitivity	1.07E-6	1.92E-4	30,84	4935	4	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002894	positive regulation of type II hypersensitivity	1.07E-6	1.89E-4	30,84	4935	4	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002883	regulation of hypersensitivity	1.07E-6	1.86E-4	30,84	4935	4	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0007160	cell-matrix adhesion	1.08E-6	1.87E-4	7,93	4935	35	160	9	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Fn1 - fibronectin 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Itga6 - integrin alpha 6, Vtn - vitronectin, Itgb3 - integrin beta 3, Fgb - fibrinogen beta chain, Itgb2 - integrin beta 2]
GO:0065008	regulation of biological quality	1.12E-6	1.91E-4	1,64	4935	1358	160	72	[Wfs1 - wolfram syndrome 1 homolog (human), Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Clc1 - chloride intracellular channel 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Stx12 - syntaxin 12, Flna - filamin, alpha, Apoh - apolipoprotein h, P4hb - prolyl 4-hydroxylase, beta polypeptide, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Alb - albumin, Ctss - cathepsin a, Cpe - carboxypeptidase e, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Cp - ceruloplasmin, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, Itgb3 - integrin beta 3, Sh3bgrl3 - sh3 domain binding glutamic acid-rich protein-like 3, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2, Rbp1 - retinol binding protein 1, cellular, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ampd3 - adenosine monophosphate deaminase 3, Irs2 - insulin receptor substrate 2, Nptxr - neuronal pentraxin receptor, Stat3 - signal transducer and activator of transcription 3, Arpc1b - actin related protein 2/3 complex, subunit 1b, Stat1 - signal transducer and activator of transcription 1, Scn3b - sodium channel, voltage-gated, type iii, beta, Anxa2 - annexin a2, Plg - plasminogen, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ctsb - cathepsin b, Lamp2 - lysosomal-associated membrane protein 2, Lamp1 - lysosomal-associated membrane protein 1, Anpep - alanyl (membrane) aminopeptidase, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Ttr - transthyretin, Pex19 - peroxisomal biogenesis factor 19, Gaa - glucosidase, alpha, acid, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Krt1 - keratin 1, S100a13 - s100 calcium binding protein a13, Hrg - histidine-rich glycoprotein, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, Ddrk1 - ddrk domain containing 1, Hexb - hexosaminidase b, Ybx1 - y box protein 1, Hpx - hemopexin, Tgm2 - transglutaminase 2, c polypeptide, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Ncstn - nicastrin, Apoa1 - apolipoprotein a-i, Car14 - carbonic anhydrase 14, Clu - clusterin, Nptx2 - neuronal pentraxin 2, Txndc5 - thioredoxin domain containing 5, Commd1 - comm domain containing 1]
GO:0043086	negative regulation of catalytic activity	1.17E-6	1.96E-4	2,96	4935	250	160	24	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Pzp - pregnancy zone protein, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Hp - haptoglobin, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Gba - glucosidase, beta, acid, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Apoa1 - apolipoprotein a-i, Irs2 - insulin receptor substrate 2, Mug1 - murinoglobulin 1, Kng1 - kininogen 1]
GO:1903034	regulation of response to wounding	1.29E-6	2.12E-4	5,01	4935	80	160	13	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Plg - plasminogen, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Flna - filamin, alpha, Apoh - apolipoprotein h, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Anxa2 - annexin a2]
GO:0042742	defense response to bacterium	1.4E-6	2.28E-4	7,71	4935	36	160	9	[Ilgc - immunoglobulin kappa constant, Anxa3 - annexin a3, Hp - haptoglobin, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Fgb - fibrinogen beta chain]



GO:1903035	negative regulation of response to wounding	1.4E-6	2.25E-4	7,71	4935	36	160	9	[ApoH - apolipoprotein h, Plg - plasminogen, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Anxa2 - annexin a2]
GO:0032103	positive regulation of response to external stimulus	1.48E-6	2.33E-4	4,59	4935	94	160	14	[C3 - complement component 3, Scg2 - secretogranin ii, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Hrg - histidine-rich glycoprotein, Flna - filamin, alpha, Tgm2 - transglutaminase 2, c polypeptide, ApoH - apolipoprotein h, Ighg2b - immunoglobulin heavy constant gamma 2b, Lgmn - legumain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Stat3 - signal transducer and activator of transcription 3]
GO:0051707	response to other organism	1.73E-6	2.69E-4	4,24	4935	109	160	15	[Ilgk - immunoglobulin kappa constant, C3 - complement component 3, Anxa3 - annexin a3, Hp - haptoglobin, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Irgm1 - immunity-related gtpase family m member 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Stat1 - signal transducer and activator of transcription 1, Fgb - fibrinogen beta chain, Ces1c - carboxylesterase 1c]
GO:0098883	synapse pruning	1.74E-6	2.68E-4	19,28	4935	8	160	5	[C3 - complement component 3, Itgam - integrin alpha m, C1qc - complement component 1, q subcomponent, c chain, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide]
GO:0033627	cell adhesion mediated by integrin	1.74E-6	2.64E-4	19,28	4935	8	160	5	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Itga6 - integrin alpha 6, Vtn - vitronectin, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2]
GO:0043207	response to external biotic stimulus	1.77E-6	2.65E-4	3,61	4935	154	160	18	[C3 - complement component 3, Igk - immunoglobulin kappa constant, Anxa3 - annexin a3, Vim - vimentin, Hp - haptoglobin, F2 - coagulation factor ii, Mgst1 - microsomal glutathione s-transferase 1, Hrg - histidine-rich glycoprotein, Irgm1 - immunity-related gtpase family m member 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Stat1 - signal transducer and activator of transcription 1, Fgb - fibrinogen beta chain, Ces1c - carboxylesterase 1c]
GO:0051241	negative regulation of multicellular organismal process	1.79E-6	2.64E-4	2,50	4935	370	160	30	[Plg - plasminogen, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Anep - alanyl (membrane) aminopeptidase, Flna - filamin, alpha, ApoH - apolipoprotein h, Apod - apolipoprotein d, Lgmn - legumain, Fgg - fibrinogen gamma chain, Sod1 - superoxide dismutase 1, soluble, Cpe - carboxypeptidase e, Kng1 - kininogen 1, Fgb - fibrinogen beta chain, Itgb1 - integrin beta 1 (fibronectin receptor beta), H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, Vim - vimentin, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Gba - glucosidase, beta, acid, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, ApoA1 - apolipoprotein a-i, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2]
GO:0002708	positive regulation of lymphocyte mediated immunity	1.79E-6	2.62E-4	10,80	4935	20	160	7	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Lamp1 - lysosomal-associated membrane protein 1]
GO:0032268	regulation of cellular protein metabolic process	1.89E-6	2.72E-4	1,86	4935	861	160	52	[Pzp - pregnancy zone protein, Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Kng1 - kininogen 1, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, F2 - coagulation factor ii, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Vtn - vitronectin, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Ighm - immunoglobulin heavy constant mu, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Lgmn - legumain, Fgg - fibrinogen gamma chain, Fhit - fragile histidine triad gene, Ctsd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrkg domain containing 1, Hpx - hemopexin, Fga - fibrinogen alpha chain, Clu - clusterin, ApoA1 - apolipoprotein a-i, Ncstn - nicastrin, Pdcd5 - programmed cell death 5, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1]

								apolipoprotein h, Apod - apolipoprotein d, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Kng1 - kininogen 1, F2 - coagulation factor ii, Arhgap22 - rho gtpase activating protein 22, Fabp5 - fatty acid binding protein 5, epidermal, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Sh3bgrl3 - sh3 domain binding glutamic acid-rich protein-like 3, Gba - glucosidase, beta, acid, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Lrs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Nptxr - neuronal pentraxin receptor, Arpc1b - actin related protein 2/3 complex, subunit 1b, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Plg - plasminogen, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Lcp1 - lymphocyte cytosolic protein 1, Cst3 - cystatin c, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Irgm1 - immunity-related gtpase family m member 1, Fgg - fibrinogen gamma chain, Ctsd - cathepsin d, Pex19 - peroxisomal biogenesis factor 19, Gaa - glucosidase, alpha, acid, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, Krt1 - keratin 1, S100a13 - s100 calcium binding protein a13, Hrg - histidine-rich glycoprotein, Hexb - hexosaminidase b, Car14 - carbonic anhydrase 14, Ncstn - nicastrin, Clu - clusterin, Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Scg2 - secretogranin ii, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Clic1 - chloride intracellular channel 1, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Mcam - melanoma cell adhesion molecule, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, P4hb - prolyl 4-hydroxylase, beta polypeptide, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Crip2 - cysteine rich protein 2, Alb - albumin, Ctsa - cathepsin a, Marcks1 - marcks-like 1, Cpe - carboxypeptidase e, Glipr2 - gli pathogenesis-related 2, Igkc - immunoglobulin kappa constant, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itgam - integrin alpha m, Cp - ceruloplasmin, Fabp7 - fatty acid binding protein 7, brain, Itga6 - integrin alpha 6, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Rbp1 - retinol binding protein 1, cellular, Itgb2 - integrin beta 2, Scarb2 - scavenger receptor class b, member 2, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg2b - immunoglobulin heavy constant gamma 2b, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Orm1 - orosomuroid 1, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Ampd3 - adenosine monophosphate deaminase 3, Ighm - immunoglobulin heavy constant mu, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Cd151 - cd151 antigen, Scn3b - sodium channel, voltage-gated, type iii, beta, Anxa3 - annexin a3, Ier3ip1 - immediate early response 3 interacting protein 1, Lamp2 - lysosomal-associated membrane protein 2, Lamp1 - lysosomal-associated membrane protein 1, Anpep - alanyl (membrane) aminopeptidase, Gjb6 - gap junction protein, beta 6, Lgmn - legumain, Fhit - fragile histidine triad gene, Cfh - complement component factor h, Ttr - transthyretin, Sod1 - superoxide dismutase 1, soluble, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Lgals1 - lectin, galactose binding, soluble 1, Ppp1r1a - protein phosphatase 1, regulatory (inhibitor) subunit 1a, Cfb - complement factor b, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, Lingo2 - leucine rich repeat and ig domain containing 2, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, Ddrk1 - ddrk domain containing 1, Lsm6 - lsm6 homolog, u6 small nuclear rna associated (s. cerevisiae), Ybx1 - y box protein 1, Tgm1 - transglutaminase 1, k polypeptide, Hpx - hemopexin, Tgm2 - transglutaminase 2, c polypeptide, Sema4a - sema domain, [Igkc - immunoglobulin kappa constant, Anxa3 - annexin a3, Hp - haptoglobin, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, F2 - coagulation factor ii, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain, Stat1 - signal transducer and activator of transcription 1]
GO:0065007	biological regulation	1.96E-6	2.78E-4	1,26	4935	3185	160	130
GO:0098542	defense response to other organism	2.18E-6	3.06E-4	5,21	4935	71	160	12
								[Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Anxa3 - annexin a3, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Lcp1 - lymphocyte cytosolic protein 1, Cst3 - cystatin c, Lamp2 - lysosomal-associated membrane protein 2, Apod - apolipoprotein d, Irgm1 - immunity-related gtpase family m member 1, P4hb - prolyl 4-hydroxylase, beta polypeptide, Fgg - fibrinogen gamma chain, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Alb - albumin, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Kng1 - kininogen 1, Ide - insulin degrading enzyme, Krt1 - keratin 1, C3 - complement component 3, Igkc - immunoglobulin kappa constant, Itgam - integrin alpha m, Cfb - complement factor b, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, Mgst1 - microsomal glutathione s-transferase 1, C1qa - complement component 1, q subcomponent, alpha polypeptide, Hrg - histidine-rich glycoprotein, C1qb - complement component 1, q subcomponent, beta polypeptide, Ddrk1 - ddrk domain containing 1, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Orm1 - orosomuroid 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Clu - clusterin, Commd1 - comm domain containing 1, Tspan2 - tetraspanin 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Tbl2 - transducin (beta)-like 2]
GO:0006950	response to stress	2.18E-6	3.03E-4	1,93	4935	769	160	48
GO:0045785	positive regulation of cell adhesion	2.55E-6	3.49E-4	3,89	4935	127	160	16
GO:0031638	zymogen activation	2.56E-6	3.47E-4	13,22	4935	14	160	6
								[Aph - apolipoprotein h, Hp - haptoglobin, Lgmn - legumain, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fgb - fibrinogen beta chain]

GO:0002460	adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	2.62E-6	3.51E-4	10,28	4935	21	160	7	[C4b - complement component 4b (chido blood group), Iggh2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Stat3 - signal transducer and activator of transcription 3]
GO:0009605	response to external stimulus	2.92E-6	3.86E-4	2,55	4935	339	160	28	[Anxa3 - annexin a3, Gsn - gelsolin, Lamp2 - lysosomal-associated membrane protein 2, Irgm1 - immunity-related gtpase family m member 1, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Alb - albumin, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, C3 - complement component 3, Igkc - immunoglobulin kappa constant, Vim - vimentin, Hp - haptoglobin, F2 - coagulation factor ii, Itga6 - integrin alpha 6, Fabp7 - fatty acid binding protein 7, brain, Mgst1 - microsomal glutathione s-transferase 1, Hrg - histidine-rich glycoprotein, Gba - glucosidase, beta, acid, Rbp1 - retinol binding protein 1, cellular, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fga - fibrinogen alpha chain, Ighm - immunoglobulin heavy constant mu, Stat1 - signal transducer and activator of transcription 1, Tbl2 - transducin (beta)-like 2, Ces1c - carboxylesterase 1c]
GO:0009607	response to biotic stimulus	3.7E-6	4.84E-4	3,43	4935	162	160	18	[C3 - complement component 3, Igkc - immunoglobulin kappa constant, Anxa3 - annexin a3, Vim - vimentin, Hp - haptoglobin, F2 - coagulation factor ii, Mgst1 - microsomal glutathione s-transferase 1, Hrg - histidine-rich glycoprotein, Irgm1 - immunity-related gtpase family m member 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Stat1 - signal transducer and activator of transcription 1, Fgb - fibrinogen beta chain, Ces1c - carboxylesterase 1c]
GO:0002712	regulation of B cell mediated immunity	3.82E-6	4.94E-4	17,14	4935	9	160	5	[Hpx - hemopexin, C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002889	regulation of immunoglobulin mediated immune response	3.82E-6	4.88E-4	17,14	4935	9	160	5	[Hpx - hemopexin, C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0051248	negative regulation of protein metabolic process	4.44E-6	5.61E-4	2,35	4935	407	160	31	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Pzp - pregnancy zone protein, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apod - apolipoprotein d, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Fhit - fragile histidine triad gene, Ctsa - cathepsin a, Kng1 - kininogen 1, Ide - insulin degrading enzyme, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrkg domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Clu - clusterin, Mug1 - murinoglobulin 1, Anxa2 - annexin a2]

									[Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Nes - nestin, Flna - filamin, alpha, Apoh - apolipoprotein h, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Ndufs6 - nadh dehydrogenase (ubiquinone) fe-s protein 6, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Fabp7 - fatty acid binding protein 7, brain, F2 - coagulation factor ii, Alg5 - asparagine-linked glycosylation 5 (dolichyl-phosphate beta-glucosyltransferase), Arhgap22 - rho gtpase activating protein 22, Tpm1 - tropomyosin 1, alpha, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Ampd3 - adenosine monophosphate deaminase 3, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Scn3b - sodium channel, voltage-gated, type iii, beta, Plg - plasminogen, Tpm4 - tropomyosin 4, Anpep - alanyl (membrane) aminopeptidase, Gjb6 - gap junction protein, beta 6, Lgm - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Gaa - glucosidase, alpha, acid, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Krt1 - keratin 1, S100a13 - s100 calcium binding protein a13, C1qa - complement component 1, q subcomponent, alpha polypeptide, Hrg - histidine-rich glycoprotein, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, Hexb - hexosaminidase b, Ybx1 - y box protein 1, Tgm1 - transglutaminase 1, k polypeptide, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Krt71 - keratin 71, Apoa1 - apolipoprotein a-i, Ncstn - nicastrin, Nptx2 - neuronal pentraxin 2, Commd1 - comm domain containing 1]
GO:0032501	multicellular organismal process	5.15E-6	6.44E-4	1,77	4935	939	160	54	
GO:0072378	blood coagulation, fibrin clot formation	5.19E-6	6.42E-4	24,68	4935	5	160	4	[Fn1 - fibronectin 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fgb - fibrinogen beta chain]
GO:0002443	leukocyte mediated immunity	5.23E-6	6.4E-4	9,39	4935	23	160	7	[C4b - complement component 4b (chido blood group), Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, F2 - coagulation factor ii, Cfh - complement component factor h] apolipoprotein d, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Kng1 - kininogen 1, F2 - coagulation factor ii, Arhgap22 - rho gtpase activating protein 22, Fabp5 - fatty acid binding protein 5, epidermal, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Sh3bgrl3 - sh3 domain binding glutamic acid-rich protein-like 3, Gba - glucosidase, beta, acid, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Nptx - neuronal pentraxin receptor, Arpc1b - actin related protein 2/3 complex, subunit 1b, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Plg - plasminogen, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Lcp1 - lymphocyte cytosolic protein 1, Cst3 - cystatin c, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Irgm1 - immunity-related gtpase family m member 1, Fgg - fibrinogen gamma chain, Ctsd - cathepsin d, Gaa - glucosidase, alpha, acid, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, Krt1 - keratin 1, S100a13 - s100 calcium binding factor a13, Hrg - histidine-rich glycoprotein, Hexb - hexosaminidase b, Clu - clusterin, Ncstn - nicastrin, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Fn1 - fibronectin 1, Clic1 - chloride intracellular channel 1, Aif1 - allograft inflammatory factor 1, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Mcam - melanoma cell adhesion molecule, P4hb - prolyl 4-hydroxylase, beta polypeptide, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Crip2 - cysteine rich protein 2, Alb - albumin, Ctsa - cathepsin a, Marcks1 - marcks-like 1, Cpe - carboxypeptidase e, Glipr2 - gli pathogenesis-related 2, Igkc - immunoglobulin kappa constant, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Vim - vimentin, Itga6 - integrin alpha 6, Fabp7 - fatty acid binding protein 7, brain, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Itgb2 - integrin beta 2, Rbp1 - retinol binding protein 1, cellular, Scarb2 - scavenger receptor class b, member 2, Orm1 - orosomucoid 1, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg2b - immunoglobulin heavy constant gamma 2b, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Ighm - immunoglobulin heavy constant mu, Cd151 - cd151 antigen, Scn3b - sodium channel, voltage-gated, type iii, beta, Anxa3 - annexin a3, Ier3ip1 - immediate early response 3 interacting protein 1, Lamp2 - lysosomal-associated membrane protein 2, Lamp1 - lysosomal-associated membrane protein 1, Anpep - alanyl (membrane) aminopeptidase, Gjb6 - gap junction protein, beta 6, Lgm - legumain, Fhit - fragile histidine triad gene, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, C4b - complement component 4b (chido blood group), Ppp1r1a - protein phosphatase 1, regulatory (inhibitor) subunit 1a, Cfb - complement factor b, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, Lingo2 - leucine rich repeat and ig domain containing 2, C1qa - complement component 1, q subcomponent, alpha polypeptide, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, C1qb - complement component 1, q subcomponent, beta polypeptide, Ddrgk1 - ddrk domain containing 1, Lsm6 - lsm6 homolog, u6 small nuclear rna associated (s. cerevisiae), Tgm1 - transglutaminase 1, k polypeptide, Ybx1 - y box protein 1, Hpx - hemopexin, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Gfap - glial fibrillary acidic
GO:0050789	regulation of biological process	5.34E-6	6.47E-4	1,27	4935	3013	160	124	

GO:0031347	regulation of defense response	6.24E-6	7.48E-4	3,30	4935	168	160	18	[C3 - complement component 3, Krt1 - keratin 1, Ahsg - alpha-2-hs-glycoprotein, F2 - coagulation factor ii, Lamp1 - lysosomal-associated membrane protein 1, Hpx - hemopexin, Tgm2 - transglutaminase 2, c polypeptide, Apod - apolipoprotein d, Irgm1 - immunity-related gtpase family m member 1, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Apoa1 - apolipoprotein a-i, Cfh - complement component factor h, Stat3 - signal transducer and activator of transcription 3, Sod1 - superoxide dismutase 1, soluble, Stat1 - signal transducer and activator of transcription 1]
GO:0002888	positive regulation of myeloid leukocyte mediated immunity	6.47E-6	7.67E-4	11,57	4935	16	160	6	[C3 - complement component 3, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Itgb2 - integrin beta 2]
GO:0002697	regulation of immune effector process	6.5E-6	7.63E-4	4,36	4935	92	160	13	[C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Itgam - integrin alpha m, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2, Hpx - hemopexin, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h, Apoa1 - apolipoprotein a-i, Stat1 - signal transducer and activator of transcription 1]
GO:0002696	positive regulation of leukocyte activation	6.78E-6	7.87E-4	5,14	4935	66	160	11	[Igkc - immunoglobulin kappa constant, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Irs2 - insulin receptor substrate 2, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0045807	positive regulation of endocytosis	7.35E-6	8.45E-4	4,31	4935	93	160	13	[C3 - complement component 3, Itgb1 - integrin beta 1 (fibronectin receptor beta), Ahsg - alpha-2-hs-glycoprotein, Vtn - vitronectin, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Apoa1 - apolipoprotein a-i, Clu - clusterin, Cd151 - cd151 antigen, Sod1 - superoxide dismutase 1, soluble, Anxa2 - annexin a2]
GO:0042127	regulation of cell proliferation	7.48E-6	8.51E-4	2,38	4935	376	160	29	[Scg2 - secretogranin ii, Fn1 - fibronectin 1, Mvd - mevalonate (diphospho) decarboxylase, Aif1 - allograft inflammatory factor 1, Cst3 - cystatin c, Flna - filamin, alpha, Apoh - apolipoprotein h, Gjb6 - gap junction protein, beta 6, Apod - apolipoprotein d, Lgmn - legumain, Crip2 - cysteine rich protein 2, Marcks1 - marcks-like 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, F2 - coagulation factor ii, S100a13 - s100 calcium binding protein a13, Ddrk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Ybx1 - y box protein 1, Tgm1 - transglutaminase 1, k polypeptide, Tgm2 - transglutaminase 2, c polypeptide, Gfap - glial fibrillary acidic protein, Ighm - immunoglobulin heavy constant mu, Pcdcd5 - programmed cell death 5, Irs2 - insulin receptor substrate 2, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2]
GO:0045321	leukocyte activation	7.98E-6	8.99E-4	4,00	4935	108	160	14	[Igkc - immunoglobulin kappa constant, Anxa3 - annexin a3, Itgam - integrin alpha m, Lgals1 - lectin, galactose binding, soluble 1, Aif1 - allograft inflammatory factor 1, Lcp1 - lymphocyte cytosolic protein 1, C1qa - complement component 1, q subcomponent, alpha polypeptide, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Clu - clusterin, Ncstn - nicastrin, Cd151 - cd151 antigen]
GO:0070527	platelet aggregation	9.73E-6	1.09E-3	10,89	4935	17	160	6	[Fn1 - fibronectin 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Itgb3 - integrin beta 3, Fgb - fibrinogen beta chain]
GO:0002824	positive regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	9.73E-6	1.08E-3	10,89	4935	17	160	6	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]

GO:0002703	regulation of leukocyte mediated immunity	1.03E-5	1.13E-3	6,17	4935	45	160	9	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0051704	multi-organism process	1.03E-5	1.12E-3	2,77	4935	245	160	22	[C3 - complement component 3, Igkc - immunoglobulin kappa constant, Plg - plasminogen, Anxa3 - annexin a3, Hp - haptoglobin, Fn1 - fibronectin 1, F2 - coagulation factor ii, Ctsb - cathepsin b, Hrg - histidine-rich glycoprotein, Itgb3 - integrin beta 3, Hexb - hexosaminidase b, Irgm1 - immunity-related gtpase family m member 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Stat3 - signal transducer and activator of transcription 3, Fgb - fibrinogen beta chain, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Ces1c - carboxylesterase 1c]
GO:0050727	regulation of inflammatory response	1.05E-5	1.13E-3	4,18	4935	96	160	13	[Krt1 - keratin 1, C3 - complement component 3, Ahsg - alpha-2-hs-glycoprotein, F2 - coagulation factor ii, Tgm2 - transglutaminase 2, c polypeptide, Apod - apolipoprotein d, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Apoa1 - apolipoprotein a-i, Stat3 - signal transducer and activator of transcription 3, Sod1 - superoxide dismutase 1, soluble]
GO:0048583	regulation of response to stimulus lymphocyte mediated immunity	1.18E-5	1.25E-3	1,63	4935	1171	160	62	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, P4hb - prolyl 4-hydroxylase, beta polypeptide, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Kng1 - kininogen 1, Igkc - immunoglobulin kappa constant, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, F2 - coagulation factor ii, Fabp7 - fatty acid binding protein 7, brain, Itga6 - integrin alpha 6, Fabp5 - fatty acid binding protein 5, epidermal, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2, Ighg2b - immunoglobulin heavy constant gamma 2b, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Ighm - immunoglobulin heavy constant mu, Nptxr - neuronal pentraxin receptor, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Plg - plasminogen, Lamp1 - lysosomal-associated membrane protein 1, Lgmn - legumain, Irgm1 - immunity-related gtpase family m member 1, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, C3 - complement component 3, Krt1 - keratin 1, H2-D1 - histocompatibility 2, d region locus 1, C4b - complement component 4b (chido blood group), Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, S100a13 - s100 calcium binding protein a13, C1qa - complement component 1, q subcomponent, alpha polypeptide, Hrg - histidine-rich glycoprotein, C1qb - complement component 1, q subcomponent, beta polypeptide, Ddrk1 - ddrk domain containing 1, Hpx - hemopexin, Ybx1 - y box protein 1, Tgm2 - transglutaminase 2, c polypeptide, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Fga - fibrinogen alpha chain, Pdcd5 - programmed cell death 5, Apoa1 - apolipoprotein a-i, Clu - clusterin, Nptx2 - neuronal pentraxin 2, Commd1 - comm domain containing 1]
GO:0002449	positive regulation of acute inflammatory response to antigenic stimulus	1.42E-5	1.5E-3	10,28	4935	18	160	6	[C4b - complement component 4b (chido blood group), Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Cfh - complement component factor h]
GO:0002866	regulation of acute inflammatory response to antigenic stimulus	1.52E-5	1.58E-3	20,56	4935	6	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002864	regulation of acute inflammatory response to antigenic stimulus	1.52E-5	1.57E-3	20,56	4935	6	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0031639	plasminogen activation	1.52E-5	1.56E-3	20,56	4935	6	160	4	[Apoh - apolipoprotein h, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fgb - fibrinogen beta chain]

									[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Acot1 - acyl-coa thioesterase 1, Gsn - gelsolin, Nes - nestin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Alb - albumin, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ctsa - cathepsin a, Cpe - carboxypeptidase e, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Vim - vimentin, Itga6 - integrin alpha 6, Fabp7 - fatty acid binding protein 7, brain, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Plg - plasminogen, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Cst3 - cystatin c, Lamp2 - lysosomal-associated membrane protein 2, Anpep - alanyl (membrane) aminopeptidase, Gjb6 - gap junction protein, beta 6, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fhit - fragile histidine triad gene, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, Krt1 - keratin 1, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrk domain containing 1, Lsm6 - lsm6 homolog, u6 small nuclear rna associated (s. cerevisiae), Ybx1 - y box protein 1, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Fga - fibrinogen alpha chain, Gfap - glial fibrillary acidic protein, Clu - clusterin, Apoa1 - apolipoprotein a-i, Pdcd5 - programmed cell death 5, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1]
GO:0048519	negative regulation of biological process	1.61E-5	1.63E-3	1,50	4935	1564	160	76	
GO:0050867	positive regulation of cell activation	1.84E-5	1.86E-3	4,65	4935	73	160	11	[Ilgk - immunoglobulin kappa constant, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Irs2 - insulin receptor substrate 2, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0051240	positive regulation of multicellular organismal process	2.11E-5	2.1E-3	2,00	4935	572	160	37	[Plg - plasminogen, Anxa3 - annexin a3, Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Clic1 - chloride intracellular channel 1, Aif1 - allograft inflammatory factor 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Lgmn - legumain, Fgg - fibrinogen gamma chain, Alb - albumin, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Glipr2 - gli pathogenesis-related 2, C3 - complement component 3, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Vim - vimentin, Itga6 - integrin alpha 6, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, Lingo2 - leucine rich repeat and ig domain containing 2, Hrg - histidine-rich glycoprotein, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Scarb2 - scavenger receptor class b, member 2, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Scn3b - sodium channel, voltage-gated, type iii, beta, Anxa2 - annexin a2]
GO:0002706	regulation of lymphocyte mediated immunity	2.2E-5	2.18E-3	7,71	4935	28	160	7	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Lamp1 - lysosomal-associated membrane protein 1]
GO:1904036	negative regulation of epithelial cell apoptotic process	2.22E-5	2.17E-3	12,85	4935	12	160	5	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Fgb - fibrinogen beta chain]

GO:0048523	negative regulation of cellular process	2.49E-5	2.42E-3	1,53	4935	1414	160	70	[Pzp - pregnancy zone protein, Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Scg2 - secretogranin ii, Fn1 - fibronectin 1, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Acot1 - acyl-coa thioesterase 1, Gsn - gelsolin, Nes - nestin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Alb - albumin, Ctsa - cathepsin a, Kng1 - kininogen 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itgam - integrin alpha m, F2 - coagulation factor ii, Itga6 - integrin alpha 6, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Gba - glucosidase, beta, acid, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Plg - plasminogen, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Cst3 - cystatin c, Lamp2 - lysosomal-associated membrane protein 2, Gjb6 - gap junction protein, beta 6, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fhit - fragile histidine triad gene, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Ybx1 - y box protein 1, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Pdcd5 - programmed cell death 5, Apoa1 - apolipoprotein a-i, Clu - clusterin, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1]
GO:0010941	regulation of cell death	2.67E-5	2.57E-3	1,97	4935	578	160	37	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Ctsb - cathepsin b, Gsn - gelsolin, Acot1 - acyl-coa thioesterase 1, Cst3 - cystatin c, Nes - nestin, Ier3ip1 - immediate early response 3 interacting protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Lgmn - legumain, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, P4hb - prolyl 4-hydroxylase, beta polypeptide, Fgg - fibrinogen gamma chain, Alb - albumin, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Ctsd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Hp - haptoglobin, Itga6 - integrin alpha 6, C1qa - complement component 1, q subcomponent, alpha polypeptide, Ddrk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Clu - clusterin, Pdcd5 - programmed cell death 5, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0002821	positive regulation of adaptive immune response	2.81E-5	2.69E-3	9,25	4935	20	160	6	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0050766	positive regulation of phagocytosis	2.82E-5	2.68E-3	7,45	4935	29	160	7	[C3 - complement component 3, Ahsg - alpha-2-hs-glycoprotein, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Apoa1 - apolipoprotein a-i, Sod1 - superoxide dismutase 1, soluble]
GO:0001812	positive regulation of type I hypersensitivity	3.35E-5	3.15E-3	30,84	4935	3	160	3	[Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0001810	regulation of type I hypersensitivity	3.35E-5	3.12E-3	30,84	4935	3	160	3	[Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0150064	vertebrate eye-specific patterning	3.35E-5	3.1E-3	30,84	4935	3	160	3	[C3 - complement component 3, Itgam - integrin alpha m, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0150062	complement-mediated synapse pruning	3.35E-5	3.07E-3	30,84	4935	3	160	3	[C3 - complement component 3, Itgam - integrin alpha m, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0006910	phagocytosis, recognition	3.45E-5	3.14E-3	17,62	4935	7	160	4	[Igkc - immunoglobulin kappa constant, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu]



GO:0002675	positive regulation of acute inflammatory response	3.45E-5	3.12E-3	17,62	4935	7	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:2000352	negative regulation of endothelial cell apoptotic process	3.45E-5	3.09E-3	17,62	4935	7	160	4	[Scg2 - secretogranin ii, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fgb - fibrinogen beta chain]
GO:0002863	positive regulation of inflammatory response to antigenic stimulus	3.45E-5	3.07E-3	17,62	4935	7	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002699	positive regulation of immune effector process	4.12E-5	3.63E-3	5,24	4935	53	160	9	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0040017	positive regulation of locomotion	4.2E-5	3.68E-3	2,78	4935	211	160	19	[Glpr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Scg2 - secretogranin ii, Anxa3 - annexin a3, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Mcam - melanoma cell adhesion molecule, Lgmn - legumain, Fga - fibrinogen alpha chain, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]
GO:0045765	regulation of angiogenesis	4.46E-5	3.88E-3	4,24	4935	80	160	11	[C3 - complement component 3, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Anxa3 - annexin a3, Plg - plasminogen, Itgb1 - integrin beta 1 (fibronectin receptor beta), Apoh - apolipoprotein h, Hrg - histidine-rich glycoprotein, Stat3 - signal transducer and activator of transcription 3, Itgb3 - integrin beta 3, Stat1 - signal transducer and activator of transcription 1, Itgb2 - integrin beta 2]
GO:0030335	positive regulation of cell migration	4.56E-5	3.93E-3	2,86	4935	194	160	18	[Glpr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Anxa3 - annexin a3, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Mcam - melanoma cell adhesion molecule, Lgmn - legumain, Fga - fibrinogen alpha chain, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]
GO:1904035	regulation of epithelial cell apoptotic process	5.13E-5	4.39E-3	8,41	4935	22	160	6	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Gsn - gelsolin, Fgb - fibrinogen beta chain]
GO:0002886	regulation of myeloid leukocyte mediated immunity	5.13E-5	4.35E-3	8,41	4935	22	160	6	[C3 - complement component 3, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Itgb2 - integrin beta 2]
GO:0019730	antimicrobial humoral response	5.32E-5	4.48E-3	11,02	4935	14	160	5	[Fga - fibrinogen alpha chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Fgb - fibrinogen beta chain]
GO:0060548	negative regulation of cell death	5.59E-5	4.67E-3	2,22	4935	375	160	27	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Ctsb - cathepsin b, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Cst3 - cystatin c, Flna - filamin, alpha, Apoh - apolipoprotein h, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Lgmn - legumain, Fgg - fibrinogen gamma chain, Alb - albumin, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Fga - fibrinogen alpha chain, Irs2 - insulin receptor substrate 2, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3]

GO:2000147	positive regulation of cell motility	5.59E-5	4.65E-3	2,82	4935	197	160	18	[Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Anxa3 - annexin a3, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Mcam - melanoma cell adhesion molecule, Lgmn - legumain, Fga - fibrinogen alpha chain, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]
GO:0007229	integrin-mediated signaling pathway	5.61E-5	4.63E-3	6,75	4935	32	160	7	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Fn1 - fibronectin 1, Itga6 - integrin alpha 6, Fcrlg - fc receptor, ige, high affinity i, gamma polypeptide, Apoa1 - apolipoprotein a-i, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2]
GO:0051239	regulation of multicellular organismal process	6.3E-5	5.15E-3	1,64	4935	995	160	53	[Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Clic1 - chloride intracellular channel 1, Aif1 - allograft inflammatory factor 1, Flna - filamin, alpha, Apod - apolipoprotein h, Apod - apolipoprotein d, Alb - albumin, Fcrlg - fc receptor, ige, high affinity i, gamma polypeptide, Cpe - carboxypeptidase e, Kng1 - kininogen 1, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itgam - integrin alpha m, Itga6 - integrin alpha 6, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Rbp1 - retinol binding protein 1, cellular, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Scarb2 - scavenger receptor class b, member 2, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Stat3 - signal transducer and activator of transcription 3, Nptxr - neuronal pentraxin receptor, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Scn3b - sodium channel, voltage-gated, type iii, beta, Plg - plasminogen, Anxa3 - annexin a3, Anpep - alanyl (membrane) aminopeptidase, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Gaa - glucosidase, alpha, acid, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, C1qc - complement component 1, q subcomponent, c chain, Lingo2 - leucine rich repeat and ig domain containing 2, Hrg - histidine-rich glycoprotein, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Apoa1 - apolipoprotein a-i, Clu - clusterin, Nptx2 - neuronal pentraxin 2]
GO:0050865	regulation of cell activation	6.71E-5	5.46E-3	3,32	4935	130	160	14	[Ilgc - immunoglobulin kappa constant, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Hrg - histidine-rich glycoprotein, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2, Ighg2b - immunoglobulin heavy constant gamma 2b, Fgg - fibrinogen gamma chain, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcrlg - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2]
GO:0002269	leukocyte activation involved in inflammatory response	6.73E-5	5.43E-3	15,42	4935	8	160	4	[Itgam - integrin alpha m, Aif1 - allograft inflammatory factor 1, Clu - clusterin, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0001774	microglial cell activation	6.73E-5	5.39E-3	15,42	4935	8	160	4	[Itgam - integrin alpha m, Aif1 - allograft inflammatory factor 1, Clu - clusterin, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0043062	extracellular structure organization	7.18E-5	5.71E-3	4,41	4935	70	160	10	[Plg - plasminogen, Itgb1 - integrin beta 1 (fibronectin receptor beta), Fn1 - fibronectin 1, Gfap - glial fibrillary acidic protein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Apoa1 - apolipoprotein a-i, Lcp1 - lymphocyte cytosolic protein 1, Vtn - vitronectin, Anxa2 - annexin a2]
GO:0030198	extracellular matrix organization	8.61E-5	6.8E-3	4,79	4935	58	160	9	[Plg - plasminogen, Itgb1 - integrin beta 1 (fibronectin receptor beta), Fn1 - fibronectin 1, Gfap - glial fibrillary acidic protein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Lcp1 - lymphocyte cytosolic protein 1, Vtn - vitronectin, Anxa2 - annexin a2]

GO:0050794	regulation of cellular process	9.00E-05	7.06E-3	1,25	4935	2835	160	115	<p>apolipoprotein d, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Kng1 - kininogen 1, F2 - coagulation factor ii, Arhgap22 - rho gtpase activating protein 22, Fabp5 - fatty acid binding protein 5, epidermal, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Sh3bgrl3 - sh3 domain binding glutamic acid-rich protein-like 3, Gba - glucosidase, beta, acid, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Nptxr - neuronal pentraxin receptor, Arpc1b - actin related protein 2/3 complex, subunit 1b, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Plg - plasminogen, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Ctsb - cathepsin b, Lcp1 - lymphocyte cytosolic protein 1, Cst3 - cystatin c, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Irgm1 - immunity-related gtpase family m member 1, Fgg - fibrinogen gamma chain, Ctsd - cathepsin d, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, S100a13 - s100 calcium binding protein a13, Hrg - histidine-rich glycoprotein, Hexb - hexosaminidase b, Ncstn - nicastrin, Clu - clusterin, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Clc1 - chloride intracellular channel 1, Aif1 - allograft inflammatory factor 1, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Mcam - melanoma cell adhesion molecule, P4hb - prolyl 4-hydroxylase, beta polypeptide, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Crip2 - cysteine rich protein 2, Alb - albumin, Ctsa - cathepsin a, Marcksl1 - marcks-like 1, Cpe - carboxypeptidase e, Glipr2 - gli pathogenesis-related 2, Igkc - immunoglobulin kappa constant, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itgam - integrin alpha m, Itga6 - integrin alpha 6, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Rbp1 - retinol binding protein 1, cellular, Itgb2 - integrin beta 2, Scarb2 - scavenger receptor class b, member 2, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ighg2b - immunoglobulin heavy constant gamma 2b, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Ighm - immunoglobulin heavy constant mu, Cd151 - cd151 antigen, Scn3b - sodium channel, voltage-gated, type iii, beta, Anxa3 - annexin a3, Ier3ip1 - immediate early response 3 interacting protein 1, Lamp2 - lysosomal-associated membrane protein 2, Lamp1 - lysosomal-associated membrane protein 1, Anpep - alanyl (membrane) aminopeptidase, Gjb6 - gap junction protein, beta 6, Lgmn - legumain, Fhit - fragile histidine triad gene, Sod1 - superoxide dismutase 1, soluble, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, Ppp1r1a - protein phosphatase 1, regulatory (inhibitor) subunit 1a, Hp - haptoglobin, C1qc - complement component 1, q subcomponent, c chain, Lingo2 - leucine rich repeat and ig domain containing 2, C1qa - complement component 1, q subcomponent, alpha polypeptide, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, Ddrk1 - ddrk domain containing 1, Tgm1 - transglutaminase 1, k polypeptide, Ybx1 - y box protein 1, Hpx - hemopexin, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Gfap - glial fibrillary acidic protein, Apoa1 - apolipoprotein a-i, Pdc5 - programmed cell death 5, Nptx2 - neuronal pentraxin 2, Txndc5 - thioredoxin domain containing 5, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1, Tbl2 - transducin (beta)-like 2]</p>
GO:0030334	regulation of cell migration	9.32E-5	7.26E-3	2,29	4935	323	160	24	<p>[Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Plg - plasminogen, Anxa3 - annexin a3, Vim - vimentin, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Apoh - apolipoprotein h, Mcam - melanoma cell adhesion molecule, Apod - apolipoprotein d, Lgmn - legumain, Fga - fibrinogen alpha chain, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]</p>
GO:0051272	positive regulation of cellular component movement	9.44E-5	7.31E-3	2,71	4935	205	160	18	<p>[Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Anxa3 - annexin a3, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Mcam - melanoma cell adhesion molecule, Lgmn - legumain, Fga - fibrinogen alpha chain, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]</p>
GO:0001525	angiogenesis	1.03E-4	7.95E-3	4,23	4935	73	160	10	<p>[Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Scg2 - secretogranin ii, Mcam - melanoma cell adhesion molecule, Fn1 - fibronectin 1, Cfh - complement component factor h, Arhgap22 - rho gtpase activating protein 22, Hrg - histidine-rich glycoprotein, Anpep - alanyl (membrane) aminopeptidase, Anxa2 - annexin a2]</p>
GO:1901342	regulation of vasculature development	1.09E-4	8.32E-3	3,86	4935	88	160	11	<p>[C3 - complement component 3, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Anxa3 - annexin a3, Plg - plasminogen, Itgb1 - integrin beta 1 (fibronectin receptor beta), Apoh - apolipoprotein h, Hrg - histidine-rich glycoprotein, Stat3 - signal transducer and activator of transcription 3, Itgb3 - integrin beta 3, Stat1 - signal transducer and activator of transcription 1, Itgb2 - integrin beta 2]</p>
GO:0002673	positive regulation of acute inflammatory response	1.1E-4	8.35E-3	9,64	4935	16	160	5	<p>[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h]</p>
GO:0050871	positive regulation of B cell activation	1.1E-4	8.29E-3	9,64	4935	16	160	5	<p>[Igkc - immunoglobulin kappa constant, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2]</p>

GO:0034109	homotypic cell-cell adhesion	1.12E-4	8.4E-3	7,40	4935	25	160	6	[Fn1 - fibronectin 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Itgb3 - integrin beta 3, Fgb - fibrinogen beta chain]
GO:0002822	regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	1.12E-4	8.35E-3	7,40	4935	25	160	6	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0002455	humoral immune response mediated by circulating immunoglobulin	1.31E-4	9.65E-3	23,13	4935	4	160	3	[Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu]
GO:0030155	regulation of cell adhesion	1.36E-4	9.98E-3	2,55	4935	230	160	19	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Plg - plasminogen, Lgals1 - lectin, galactose binding, soluble 1, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Gsn - gelsolin, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Itgb2 - integrin beta 2, Flna - filamin, alpha, Tgm2 - transglutaminase 2, c polypeptide, Apod - apolipoprotein d, P4hb - prolyl 4-hydroxylase, beta polypeptide, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Apoa1 - apolipoprotein a-i, Fgb - fibrinogen beta chain]
GO:0043066	negative regulation of apoptotic process	1.42E-4	1.04E-2	2,28	4935	311	160	23	[Wfs1 - wolfram syndrome 1 homolog (human), Itgb1 - integrin beta 1 (fibronectin receptor beta), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Ddrk1 - ddrk domain containing 1, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Lgmn - legumain, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Alb - albumin, Clu - clusterin, Irs2 - insulin receptor substrate 2, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain]
GO:0032269	negative regulation of cellular protein metabolic process	1.47E-4	1.06E-2	2,14	4935	375	160	26	[Pzp - pregnancy zone protein, Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fhit - fragile histidine triad gene, Kng1 - kininogen 1, Ide - insulin degrading enzyme, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Gba - glucosidase, beta, acid, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Mug1 - murinoglobulin 1, Anxa2 - annexin a2]
GO:0031589	cell-substrate adhesion	1.47E-4	1.06E-2	4,48	4935	62	160	9	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Fn1 - fibronectin 1, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Itga6 - integrin alpha 6, Vtn - vitronectin, Itgb3 - integrin beta 3, Fgb - fibrinogen beta chain, Itgb2 - integrin beta 2]
GO:0006909	phagocytosis	1.5E-4	1.07E-2	5,84	4935	37	160	7	[Tgm2 - transglutaminase 2, c polypeptide, Itgb1 - integrin beta 1 (fibronectin receptor beta), Anxa3 - annexin a3, Itgam - integrin alpha m, Txnrc5 - thioredoxin domain containing 5, Itgb3 - integrin beta 3, Itgb2 - integrin beta 2]
GO:2000145	regulation of cell motility platelet	1.5E-4	1.07E-2	2,22	4935	333	160	24	[Glpr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Plg - plasminogen, Anxa3 - annexin a3, Vim - vimentin, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Apoh - apolipoprotein h, Mcam - melanoma cell adhesion molecule, Apod - apolipoprotein d, Lgmn - legumain, Fga - fibrinogen alpha chain, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]
GO:0030168	activation	1.52E-4	1.07E-2	9,07	4935	17	160	5	[Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, F2 - coagulation factor ii, Itgb3 - integrin beta 3, Fgb - fibrinogen beta chain]

GO:0048518	positive regulation of biological process	1.77E-4	1.24E-2	1,38	4935	1811	160	81	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Mvd - mevalonate(diphospho) decarboxylase, Ahsg - alpha-2-hs-glycoprotein, Fn1 - fibronectin 1, Clic1 - chloride intracellular channel 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Nes - nestin, Flna - filamin, alpha, Apoh - apolipoprotein h, Mcam - melanoma cell adhesion molecule, P4hb - prollyl 4-hydroxylase, beta polypeptide, Alb - albumin, Crip2 - cysteine rich protein 2, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Marcksl1 - marcks-like 1, Igkc - immunoglobulin kappa constant, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Vim - vimentin, Itga6 - integrin alpha 6, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Vtn - vitronectin, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid, Scarb2 - scavenger receptor class b, member 2, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen, Arpc1b - actin related protein 2/3 complex, subunit 1b, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Scn3b - sodium channel, voltage-gated, type iii, beta, Anxa3 - annexin a3, Plg - plasminogen, Lcp1 - lymphocyte cytosolic protein 1, Cst3 - cystatin c, Lamp1 - lysosomal-associated membrane protein 1, Irgm1 - immunity-related gtpase family m member 1, Lgmn - legumain, Fgg - fibrinogen gamma chain, Cfh - complement component factor h, Ctcd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Krt1 - keratin 1, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Lgals1 - lectin, galactose binding, soluble 1, C4b - complement component 4b (chido blood group), Hp - haptoglobin, Cfb - complement factor b, C1qc - complement component 1, q subcomponent, c chain, Lingo2 - leucine rich repeat and ig domain containing 2, S100a13 - s100 calcium binding protein a13, C1qa - complement component 1, q subcomponent, alpha polypeptide, C1qb - complement component 1, q subcomponent, beta polypeptide, Hrg - histidine-rich glycoprotein, Ddrk1 - ddrk domain containing 1, Hexb - hexosaminidase b, Hpx - hemopexin, Ybx1 - y box protein 1, Tgm1 - transglutaminase 1, k polypeptide, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Gfap - glial fibrillary acidic protein, Apoa1 - apolipoprotein a-i, Clu - clusterin, Ncstn - nicastrin, Pdc5 - programmed cell death 5, Commd1 - comm domain containing 1]
GO:0043067	regulation of programmed cell death	1.8E-4	1.26E-2	1,92	4935	514	160	32	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Acot1 - acyl-coa thioesterase 1, Cst3 - cystatin c, Nes - nestin, Ier3ip1 - immediate early response 3 interacting protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Lgmn - legumain, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, P4hb - prollyl 4-hydroxylase, beta polypeptide, Fgg - fibrinogen gamma chain, Alb - albumin, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Ctcd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Clu - clusterin, Irs2 - insulin receptor substrate 2, Pdc5 - programmed cell death 5, Stat1 - signal transducer and activator of transcription 1]
GO:0018149	peptide cross-linking	1.92E-4	1.33E-2	12,34	4935	10	160	4	[Tgm1 - transglutaminase 1, k polypeptide, Krt1 - keratin 1, Tgm2 - transglutaminase 2, c polypeptide, Fn1 - fibronectin 1]
GO:1900048	positive regulation of hemostasis	1.92E-4	1.32E-2	12,34	4935	10	160	4	[ApoH - apolipoprotein h, Plg - plasminogen, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein]
GO:0034114	regulation of heterotypic cell-cell adhesion	1.92E-4	1.32E-2	12,34	4935	10	160	4	[Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Apoa1 - apolipoprotein a-i, Fgb - fibrinogen beta chain]
GO:0030194	positive regulation of blood coagulation	1.92E-4	1.31E-2	12,34	4935	10	160	4	[Plg - plasminogen, Apoh - apolipoprotein h, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein]
GO:2000351	regulation of endothelial cell apoptotic process	1.92E-4	1.3E-2	12,34	4935	10	160	4	[Scg2 - secretogranin ii, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Fgb - fibrinogen beta chain]
GO:0002861	regulation of inflammatory response to antigenic stimulus	1.92E-4	1.29E-2	12,34	4935	10	160	4	[C3 - complement component 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:0046716	muscle cell cellular homeostasis	1.92E-4	1.28E-2	12,34	4935	10	160	4	[Plg - plasminogen, Gaa - glucosidase, alpha, acid, Lamp2 - lysosomal-associated membrane protein 2, Sod1 - superoxide dismutase 1, soluble]

GO:0010810	regulation of cell-substrate adhesion	1.99E-4	1.32E-2	3,61	4935	94	160	11	[Flna - filamin, alpha, Plg - plasminogen, Itgb1 - integrin beta 1 (fibronectin receptor beta), Lgals1 - lectin, galactose binding, soluble 1, Apod - apolipoprotein d, Fn1 - fibronectin 1, P4hb - prolyl 4-hydroxylase, beta polypeptide, Itga6 - integrin alpha 6, Apoa1 - apolipoprotein a-i, Vtn - vitronectin, Itgb3 - integrin beta 3]
GO:0042445	hormone metabolic process	2.12E-4	1.4E-2	5,54	4935	39	160	7	[Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Ctsb - cathepsin b, Apoa1 - apolipoprotein a-i, Ttr - transthyretin, Cpe - carboxypeptidase e, Rbp1 - retinol binding protein 1, cellular, Ide - insulin degrading enzyme]
GO:0002694	regulation of leukocyte activation	2.18E-4	1.43E-2	3,33	4935	111	160	12	[Igkc - immunoglobulin kappa constant, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Irs2 - insulin receptor substrate 2, Gsn - gelsolin, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0002274	myeloid leukocyte activation	2.2E-4	1.44E-2	6,61	4935	28	160	6	[Anxa3 - annexin a3, Itgam - integrin alpha m, Aif1 - allograft inflammatory factor 1, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Clu - clusterin, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0019882	antigen processing and presentation	2.2E-4	1.43E-2	6,61	4935	28	160	6	[H2-D1 - histocompatibility 2, d region locus 1, Ighm - immunoglobulin heavy constant mu, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Gba - glucosidase, beta, acid, Ide - insulin degrading enzyme]
GO:0043069	negative regulation of programmed cell death	2.39E-4	1.55E-2	2,20	4935	322	160	23	[Wfs1 - wolfram syndrome 1 homolog (human), Itgb1 - integrin beta 1 (fibronectin receptor beta), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Itga6 - integrin alpha 6, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Ddrk1 - ddrk domain containing 1, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Lgmn - legumain, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Alb - albumin, Clu - clusterin, Irs2 - insulin receptor substrate 2, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain]
GO:0010952	positive regulation of peptidase activity	2.4E-4	1.54E-2	4,21	4935	66	160	9	[Lgmn - legumain, Ncstn - nicastrin, Pdcd5 - programmed cell death 5, Gsn - gelsolin, Ctsd - cathepsin d, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Ddrk1 - ddrk domain containing 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0040012	regulation of locomotion	2.42E-4	1.55E-2	2,11	4935	365	160	25	[Anxa3 - annexin a3, Scg2 - secretogranin ii, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Mcam - melanoma cell adhesion molecule, Apod - apolipoprotein d, Lgmn - legumain, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itga6 - integrin alpha 6, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Ddrk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Fga - fibrinogen alpha chain, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]
GO:0042981	regulation of apoptotic process	2.5E-4	1.59E-2	1,91	4935	500	160	31	[Wfs1 - wolfram syndrome 1 homolog (human), Scg2 - secretogranin ii, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Acot1 - acyl-coa thioesterase 1, Nes - nestin, Ier3ip1 - immediate early response 3 interacting protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Psmg2 - proteasome (prosome, macropain) assembly chaperone 2, Lgmn - legumain, P4hb - prolyl 4-hydroxylase, beta polypeptide, Fgg - fibrinogen gamma chain, Alb - albumin, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ctsd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Itgb1 - integrin beta 1 (fibronectin receptor beta), Itgam - integrin alpha m, Itga6 - integrin alpha 6, Ddrk1 - ddrk domain containing 1, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Tgm2 - transglutaminase 2, c polypeptide, Fga - fibrinogen alpha chain, Clu - clusterin, Irs2 - insulin receptor substrate 2, Pdcd5 - programmed cell death 5, Stat1 - signal transducer and activator of transcription 1]
GO:0042592	homeostatic process	2.59E-4	1.64E-2	1,91	4935	501	160	31	[Wfs1 - wolfram syndrome 1 homolog (human), Plg - plasminogen, Lamp2 - lysosomal-associated membrane protein 2, P4hb - prolyl 4-hydroxylase, beta polypeptide, Cfh - complement component factor h, Gaa - glucosidase, alpha, acid, Sod1 - superoxide dismutase 1, soluble, Kng1 - kininogen 1, Ide - insulin degrading enzyme, Krt1 - keratin 1, Itgb1 - integrin beta 1 (fibronectin receptor beta), Cp - ceruloplasmin, F2 - coagulation factor ii, Fabp5 - fatty acid binding protein 5, epidermal, Kcnj10 - potassium inwardly-rectifying channel, subfamily j, member 10, Hexb - hexosaminidase b, Sh3bgrl3 - sh3 domain binding glutamic acid-rich protein-like 3, Rbp1 - retinol binding protein 1, cellular, Gba - glucosidase, beta, acid, Hpx - hemopexin, Tgm2 - transglutaminase 2, c polypeptide, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Ampd3 - adenosine monophosphate deaminase 3, Ncstn - nicastrin, Apoa1 - apolipoprotein a-i, Car14 - carbonic anhydrase 14, Txndc5 - thioredoxin domain containing 5, Comm1 - comm domain containing 1, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Scn3b - sodium channel, voltage-gated, type iii, beta]
GO:0016485	protein processing	2.62E-4	1.65E-2	4,66	4935	53	160	8	[Apoa1 - apolipoprotein h, Hp - haptoglobin, Lgmn - legumain, Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Ncstn - nicastrin, Cpe - carboxypeptidase e, Fgb - fibrinogen beta chain]
GO:0042110	T cell activation	2.62E-4	1.64E-2	4,66	4935	53	160	8	[Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Itgam - integrin alpha m, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ncstn - nicastrin, Lcp1 - lymphocyte cytosolic protein 1, Cd151 - cd151 antigen, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2]
GO:0070661	leukocyte proliferation	2.7E-4	1.68E-2	6,38	4935	29	160	6	[Itgam - integrin alpha m, Ncstn - nicastrin, Clu - clusterin, Cd151 - cd151 antigen, Itgb2 - integrin beta 2, Gba - glucosidase, beta, acid]

GO:0002819	regulation of adaptive immune response	2.7E-4	1.67E-2	6,38	4935	29	160	6	[Hpx - hemopexin, C3 - complement component 3, H2-D1 - histocompatibility 2, d region locus 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide]
GO:1903524	positive regulation of blood circulation	2.71E-4	1.66E-2	8,12	4935	19	160	5	[Fgg - fibrinogen gamma chain, Fga - fibrinogen alpha chain, Fgb - fibrinogen beta chain, Tpm1 - tropomyosin 1, alpha, Scn3b - sodium channel, voltage-gated, type iii, beta]
GO:0050764	regulation of phagocytosis	2.93E-4	1.79E-2	5,27	4935	41	160	7	[C3 - complement component 3, Ahsg - alpha-2-hs-glycoprotein, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Apoai - apolipoprotein a-i, Sod1 - superoxide dismutase 1, soluble]
GO:0043302	positive regulation of leukocyte degranulation	2.94E-4	1.79E-2	11,22	4935	11	160	4	[Itgam - integrin alpha m, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Lamp1 - lysosomal-associated membrane protein 1, Itgb2 - integrin beta 2]
GO:0061900	glial cell activation	2.94E-4	1.78E-2	11,22	4935	11	160	4	[Itgam - integrin alpha m, Aif1 - allograft inflammatory factor 1, Clu - clusterin, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0051270	regulation of cellular component movement	2.99E-4	1.8E-2	2,08	4935	370	160	25	[Anxa3 - annexin a3, Plg - plasminogen, Fn1 - fibronectin 1, Aif1 - allograft inflammatory factor 1, Lamp1 - lysosomal-associated membrane protein 1, Flna - filamin, alpha, Apoh - apolipoprotein h, Mcam - melanoma cell adhesion molecule, Apod - apolipoprotein d, Lgmn - legumain, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itga6 - integrin alpha 6, Hrg - histidine-rich glycoprotein, Vtn - vitronectin, Ddrgk1 - ddrk domain containing 1, Itgb3 - integrin beta 3, Tpm1 - tropomyosin 1, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Fga - fibrinogen alpha chain, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Cd151 - cd151 antigen]
GO:0051251	positive regulation of lymphocyte activation	2.99E-4	1.79E-2	4,57	4935	54	160	8	[Ilgc - immunoglobulin kappa constant, Lgals1 - lectin, galactose binding, soluble 1, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Aif1 - allograft inflammatory factor 1, Ighm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2, Lamp1 - lysosomal-associated membrane protein 1]
GO:0051918	negative regulation of fibrinolysis	3.19E-4	1.9E-2	18,51	4935	5	160	3	[ApoH - apolipoprotein h, Plg - plasminogen, Hrg - histidine-rich glycoprotein]
GO:0051917	regulation of fibrinolysis	3.19E-4	1.89E-2	18,51	4935	5	160	3	[Plg - plasminogen, Apoh - apolipoprotein h, Hrg - histidine-rich glycoprotein]
GO:0010001	glial cell differentiation	3.29E-4	1.94E-2	6,17	4935	30	160	6	[Vim - vimentin, Gfap - glial fibrillary acidic protein, Stat3 - signal transducer and activator of transcription 3, Tspan2 - tetraspanin 2, Vtn - vitronectin, Gba - glucosidase, beta, acid]
GO:0051093	negative regulation of developmental process	3.45E-4	2.03E-2	2,25	4935	288	160	21	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Plg - plasminogen, H2-D1 - histocompatibility 2, d region locus 1, Vim - vimentin, Lgals1 - lectin, galactose binding, soluble 1, Ahsg - alpha-2-hs-glycoprotein, C1qc - complement component 1, q subcomponent, c chain, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Itgb3 - integrin beta 3, Ybx1 - y box protein 1, Flna - filamin, alpha, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Apoh - apolipoprotein h, Lgmn - legumain, Gfap - glial fibrillary acidic protein, Arhgdib - rho, gdp dissociation inhibitor (gdi) beta, Stat3 - signal transducer and activator of transcription 3, Cpe - carboxypeptidase e, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2]
GO:0090303	positive regulation of wound healing	3.51E-4	2.05E-2	7,71	4935	20	160	5	[ApoH - apolipoprotein h, Itgb1 - integrin beta 1 (fibronectin receptor beta), Plg - plasminogen, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein]
GO:0046649	lymphocyte activation	3.73E-4	2.16E-2	3,63	4935	85	160	10	[Ilgc - immunoglobulin kappa constant, Sema4a - sema domain, immunoglobulin domain (ig), transmembrane domain (tm) and short cytoplasmic domain, (semaphorin) 4a, Lgals1 - lectin, galactose binding, soluble 1, Itgam - integrin alpha m, Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Ncstn - nicastrin, Lcp1 - lymphocyte cytosolic protein 1, Cd151 - cd151 antigen, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2]
GO:0051258	protein polymerization	3.97E-4	2.29E-2	5,97	4935	31	160	6	[Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Vtn - vitronectin, Fgb - fibrinogen beta chain]
GO:1903036	positive regulation of response to wounding	3.97E-4	2.28E-2	5,97	4935	31	160	6	[Flna - filamin, alpha, Itgb1 - integrin beta 1 (fibronectin receptor beta), Apoh - apolipoprotein h, Plg - plasminogen, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein]

GO:0010712	regulation of collagen metabolic process	4.3E-4	2.46E-2	10,28	4935	12	160	4	[Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Fn1 - fibronectin 1, F2 - coagulation factor ii]
GO:0050820	positive regulation of coagulation macrophage activation	4.3E-4	2.45E-2	10,28	4935	12	160	4	[ApoH - apolipoprotein h, Plg - plasminogen, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein]
GO:0042116	positive regulation of cell-substrate adhesion	4.3E-4	2.43E-2	10,28	4935	12	160	4	[Itgam - integrin alpha m, Aif1 - allograft inflammatory factor 1, Clu - clusterin, C1qa - complement component 1, q subcomponent, alpha polypeptide]
GO:0010811		4.38E-4	2.47E-2	4,33	4935	57	160	8	[Flna - filamin, alpha, Itgb1 - integrin beta 1 (fibronectin receptor beta), Fn1 - fibronectin 1, P4hb - prolyl 4-hydroxylase, beta polypeptide, Itga6 - integrin alpha 6, ApoA1 - apolipoprotein a-i, Vtn - vitronectin, Itgb3 - integrin beta 3]
GO:0009892	negative regulation of metabolic process	4.6E-4	2.58E-2	1,64	4935	811	160	43	[Serpina1b - serine (or cysteine) peptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Pzp - pregnancy zone protein, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Fn1 - fibronectin 1, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Aif1 - allograft inflammatory factor 1, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fhit - fragile histidine triad gene, CtSa - cathepsin a, Sod1 - superoxide dismutase 1, soluble, Kng1 - kininogen 1, Ide - insulin degrading enzyme, Itgam - integrin alpha m, Hp - haptoglobin, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrk domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Lsm6 - lsm6 homolog, u6 small nuclear rna associated (s. cerevisiae), Ybx1 - y box protein 1, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Irs2 - insulin receptor substrate 2, Clu - clusterin, Mug1 - murinoglobulin 1, Stat3 - signal transducer and activator of transcription 3, Anxa2 - annexin a2]
GO:0050729	positive regulation of inflammatory response	4.76E-4	2.65E-2	5,78	4935	32	160	6	[C3 - complement component 3, Tgm2 - transglutaminase 2, c polypeptide, IgH2b - immunoglobulin heavy constant gamma 2b, IgH1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Stat3 - signal transducer and activator of transcription 3]
GO:0050864	regulation of B cell activation	5.66E-4	3.14E-2	7,01	4935	22	160	5	[Ilgk - immunoglobulin kappa constant, IgH2b - immunoglobulin heavy constant gamma 2b, IgH1 - immunoglobulin heavy constant gamma 1 (g1m marker), IgHm - immunoglobulin heavy constant mu, Irs2 - insulin receptor substrate 2]
GO:0050853	B cell receptor signaling pathway	6.05E-4	3.34E-2	9,49	4935	13	160	4	[Ilgk - immunoglobulin kappa constant, IgH2b - immunoglobulin heavy constant gamma 2b, IgH1 - immunoglobulin heavy constant gamma 1 (g1m marker), IgHm - immunoglobulin heavy constant mu]
GO:0097242	amyloid-beta clearance	6.05E-4	3.33E-2	9,49	4935	13	160	4	[C3 - complement component 3, Itgam - integrin alpha m, Ide - insulin degrading enzyme, Itgb2 - integrin beta 2]
GO:0006957	complement activation, alternative pathway	6.23E-4	3.41E-2	15,42	4935	6	160	3	[C3 - complement component 3, Cfb - complement factor b, Cfh - complement component factor h]
GO:0034116	positive regulation of heterotypic cell-cell adhesion	6.23E-4	3.39E-2	15,42	4935	6	160	3	[Fga - fibrinogen alpha chain, Fgg - fibrinogen gamma chain, Fgb - fibrinogen beta chain]
GO:0030212	hyaluronan metabolic process	6.23E-4	3.37E-2	15,42	4935	6	160	3	[Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1]
GO:0031349	positive regulation of defense response	6.99E-4	3.77E-2	3,65	4935	76	160	9	[Hpx - hemopexin, C3 - complement component 3, Tgm2 - transglutaminase 2, c polypeptide, Irgm1 - immunity-related gtpase family m member 1, IgH2b - immunoglobulin heavy constant gamma 2b, IgH1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcgr1g - fc receptor, ige, high affinity i, gamma polypeptide, Stat3 - signal transducer and activator of transcription 3, Lamp1 - lysosomal-associated membrane protein 1]



GO:0042221	response to chemical	7.84E-4	4.21E-2	1,58	4935	857	160	44	[Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Fn1 - fibronectin 1, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Aif1 - allograft inflammatory factor 1, S100a16 - s100 calcium binding protein a16, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Apod - apolipoprotein d, Lgmn - legumain, Irgm1 - immunity-related gtpase family m member 1, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, P4hb - prolyl 4-hydroxylase, beta polypeptide, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Fgg - fibrinogen gamma chain, Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Cfh - complement component factor h, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Crot - carnitine o-octanoyltransferase, Cfb - complement factor b, Hp - haptoglobin, Cp - ceruloplasmin, Mgst1 - microsomal glutathione s-transferase 1, Hrg - histidine-rich glycoprotein, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Gss - glutathione synthetase, Itgb2 - integrin beta 2, Rbp1 - retinol binding protein 1, cellular, Ybx1 - y box protein 1, Fga - fibrinogen alpha chain, Pdcd5 - programmed cell death 5, Ncstn - nicastrin, Irs2 - insulin receptor substrate 2, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Tbl2 - transducin (beta)-like 2, Anxa2 - annexin a2]
GO:0034097	response to cytokine	8.19E-4	4.37E-2	2,51	4935	184	160	15	[Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Vim - vimentin, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Fn1 - fibronectin 1, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Gba - glucosidase, beta, acid, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Ybx1 - y box protein 1, Irgm1 - immunity-related gtpase family m member 1, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, P4hb - prolyl 4-hydroxylase, beta polypeptide, Cfh - complement component factor h, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]
GO:0051172	negative regulation of nitrogen compound metabolic process	8.71E-4	4.63E-2	1,70	4935	634	160	35	[Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Wfs1 - wolfram syndrome 1 homolog (human), Pzp - pregnancy zone protein, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Ahsg - alpha-2-hs-glycoprotein, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apod - apolipoprotein d, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Fhit - fragile histidine triad gene, Ctsa - cathepsin a, Kng1 - kininogen 1, Ide - insulin degrading enzyme, Itgam - integrin alpha m, F2 - coagulation factor ii, Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrkg domain containing 1, Vtn - vitronectin, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Ybx1 - y box protein 1, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Clu - clusterin, Stat3 - signal transducer and activator of transcription 3, Mug1 - murinoglobulin 1, Anxa2 - annexin a2]
GO:0080090	regulation of primary metabolic process	8.8E-4	4.66E-2	1,40	4935	1458	160	66	[Pzp - pregnancy zone protein, Wfs1 - wolfram syndrome 1 homolog (human), Serpina1b - serine (or cysteine) preptidase inhibitor, clade a, member 1b, Fn1 - fibronectin 1, Ahsg - alpha-2-hs-glycoprotein, Serpina1a - serine (or cysteine) peptidase inhibitor, clade a, member 1a, Aif1 - allograft inflammatory factor 1, Gsn - gelsolin, Serpina1d - serine (or cysteine) peptidase inhibitor, clade a, member 1d, Serpina1e - serine (or cysteine) peptidase inhibitor, clade a, member 1e, Flna - filamin, alpha, Apoh - apolipoprotein h, Apod - apolipoprotein d, Serpina3k - serine (or cysteine) peptidase inhibitor, clade a, member 3k, Ppp1r1b - protein phosphatase 1, regulatory (inhibitor) subunit 1b, Ctsa - cathepsin a, Kng1 - kininogen 1, Glipr2 - gli pathogenesis-related 2, Itgb1 - integrin beta 1 (fibronectin receptor beta), Vim - vimentin, Itgam - integrin alpha m, F2 - coagulation factor ii, Itga6 - integrin alpha 6, Fabp5 - fatty acid binding protein 5, epidermal, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Vtn - vitronectin, Itgb3 - integrin beta 3, Gba - glucosidase, beta, acid, Itgb2 - integrin beta 2, Scarb2 - scavenger receptor class b, member 2, Serpinb1a - serine (or cysteine) peptidase inhibitor, clade b, member 1a, Itih3 - inter-alpha trypsin inhibitor, heavy chain 3, Itih2 - inter-alpha trypsin inhibitor, heavy chain 2, Ighm - immunoglobulin heavy constant mu, Itih1 - inter-alpha trypsin inhibitor, heavy chain 1, Irs2 - insulin receptor substrate 2, Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1, Anxa2 - annexin a2, Serpina6 - serine (or cysteine) peptidase inhibitor, clade a, member 6, Anxa3 - annexin a3, Serpinh1 - serine (or cysteine) peptidase inhibitor, clade h, member 1, Cst3 - cystatin c, Lgmn - legumain, Serpinc1 - serine (or cysteine) peptidase inhibitor, clade c (antithrombin), member 1, Fgg - fibrinogen gamma chain, Fhit - fragile histidine triad gene, Cfh - complement component factor h, Ctsd - cathepsin d, Sod1 - superoxide dismutase 1, soluble, Fgb - fibrinogen beta chain, Ide - insulin degrading enzyme, C3 - complement component 3, Hrg - histidine-rich glycoprotein, Ddrgk1 - ddrkg domain containing 1, Hexb - hexosaminidase b, Hpx - hemopexin, Ybx1 - y box protein 1, Gfap - glial fibrillary acidic protein, Fga - fibrinogen alpha chain, Pdcd5 - programmed cell death 5, Apoai - apolipoprotein a-i, Clu - clusterin, Ncstn - nicastrin, Commd1 - comm domain containing 1, Mug1 - murinoglobulin 1]
GO:0030100	regulation of endocytosis	9.31E-4	4.9E-2	2,59	4935	167	160	14	[C3 - complement component 3, Itgb1 - integrin beta 1 (fibronectin receptor beta), Ahsg - alpha-2-hs-glycoprotein, Vtn - vitronectin, Itgb3 - integrin beta 3, Ighg2b - immunoglobulin heavy constant gamma 2b, Ighg1 - immunoglobulin heavy constant gamma 1 (g1m marker), Fcer1g - fc receptor, ige, high affinity i, gamma polypeptide, Ighm - immunoglobulin heavy constant mu, Apoai - apolipoprotein a-i, Clu - clusterin, Cd151 - cd151 antigen, Sod1 - superoxide dismutase 1, soluble, Anxa2 - annexin a2]
GO:0010950	positive regulation of endopeptidase activity	9.67E-4	5.07E-2	3,86	4935	64	160	8	[Lgmn - legumain, Pdcd5 - programmed cell death 5, Ncstn - nicastrin, Gsn - gelsolin, Ctsd - cathepsin d, Psme1 - proteasome (prosome, macropain) activator subunit 1 (pa28 alpha), Stat3 - signal transducer and activator of transcription 3, Stat1 - signal transducer and activator of transcription 1]

**enriched GO terms of decreased proteins (biological process)**

GO Term	Description	P-value	FDR q-value	Enrichment	N	B	n	b	Genes
GO:0048169	regulation of long-term neuronal synaptic plasticity	4.39E-6	4.99E-2	19,35	4935	25	51	5	[Dlg4 - discs, large homolog 4 (drosophila), Shank3 - sh3/ankyrin domain gene 3, Grin1 - glutamate receptor, ionotropic, nmda1 (zeta 1), Syngap1 - synaptic ras gtpase activating protein 1 homolog (rat), Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2)]
GO:0099601	regulation of neurotransmitter receptor activity	7.73E-5	4.4E-1	11,00	4935	44	51	5	[Dlg4 - discs, large homolog 4 (drosophila), Dlgap2 - discs, large (drosophila) homolog-associated protein 2, Shank3 - sh3/ankyrin domain gene 3, Gsg1l - gsg1-like, Begain - brain-enriched guanylate kinase-associated]
GO:0048168	regulation of neuronal synaptic plasticity	1.07E-4	4.05E-1	10,29	4935	47	51	5	[Dlg4 - discs, large homolog 4 (drosophila), Shank3 - sh3/ankyrin domain gene 3, Grin1 - glutamate receptor, ionotropic, nmda1 (zeta 1), Syngap1 - synaptic ras gtpase activating protein 1 homolog (rat), Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2)]
GO:0035405	histone-threonine phosphorylation	3.12E-4	8.88E-1	64,51	4935	3	51	2	[Prkca - protein kinase c, alpha, Pkn1 - protein kinase n1]
GO:0051705	multi-organism behavior	3.32E-4	7.56E-1	11,73	4935	33	51	4	[Dlg4 - discs, large homolog 4 (drosophila), Shank3 - sh3/ankyrin domain gene 3, Grin1 - glutamate receptor, ionotropic, nmda1 (zeta 1), Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2)]
GO:0050905	neuromuscular process	3.71E-4	7.04E-1	7,93	4935	61	51	5	[Dlg4 - discs, large homolog 4 (drosophila), Shank3 - sh3/ankyrin domain gene 3, Grin1 - glutamate receptor, ionotropic, nmda1 (zeta 1), Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2), Rbfox1 - rna binding protein, fox-1 homolog (c. elegans) 1]
GO:0010469	regulation of signaling receptor activity	4,00E-04	6.51E-1	7,80	4935	62	51	5	[Dlg4 - discs, large homolog 4 (drosophila), Dlgap2 - discs, large (drosophila) homolog-associated protein 2, Shank3 - sh3/ankyrin domain gene 3, Gsg1l - gsg1-like, Begain - brain-enriched guanylate kinase-associated]
GO:0043113	receptor clustering	4.18E-4	5.95E-1	11,06	4935	35	51	4	[Dlg4 - discs, large homolog 4 (drosophila), Shank3 - sh3/ankyrin domain gene 3, Syngap1 - synaptic ras gtpase activating protein 1 homolog (rat), Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2)]
GO:2000821	regulation of grooming behavior	6.2E-4	7.84E-1	48,38	4935	4	51	2	[Dlg4 - discs, large homolog 4 (drosophila), Shank3 - sh3/ankyrin domain gene 3]
GO:0097553	calcium ion transmembrane import into cytosol	7.61E-4	8.66E-1	16,13	4935	18	51	3	[Grin1 - glutamate receptor, ionotropic, nmda1 (zeta 1), Plcg2 - phospholipase c, gamma 2, Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2)]
GO:0016570	histone modification	8.01E-4	8.29E-1	6,72	4935	72	51	5	[Prkca - protein kinase c, alpha, Chd5 - chromodomain helicase dna binding protein 5, Pkn1 - protein kinase n1, Smarca4 - swi/snf related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4, Smyd3 - set and mynd domain containing 3]
GO:0016569	covalent chromatin modification	8.01E-4	7.6E-1	6,72	4935	72	51	5	[Prkca - protein kinase c, alpha, Chd5 - chromodomain helicase dna binding protein 5, Pkn1 - protein kinase n1, Smarca4 - swi/snf related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4, Smyd3 - set and mynd domain containing 3]
GO:0045471	response to ethanol	8.97E-4	7.85E-1	15,28	4935	19	51	3	[Prkca - protein kinase c, alpha, Grin1 - glutamate receptor, ionotropic, nmda1 (zeta 1), Grin2b - glutamate receptor, ionotropic, nmda2b (epsilon 2)]