UP REGULATED GENES

Category	Term	Gene count	EASE PValue
Bioloiical process	system development	34	0.00011
Bioloiical process	organ development	27	0.00027
Bioloiical process	muscle system process	8	0.00223
Bioloiical process	negative regulation of biological process	23	0.00267
Bioloiical process	negative regulation of cellular process	22	0.00355
Bioloiical process	regulation of muscle contraction	4	0.00656
Bioloiical process	organic acid transport	5	0.00728
Bioloiical process	cell motility	11	0.01013
Bioloiical process	response to hypoxia	4	0.01691
Bioloiical process	amino acid and derivative metabolic process	9	0.02686
Bioloiical process	regulation of cell adhesion	4	0.03438
Bioloiical process	regulation of multicellular organismal process	8	0.03525
Bioloiical process	regulation of developmental process	7	0.03656
Bioloiical process	cell death	15	0.04143
Bioloiical process	sulfur metabolic process	4	0.04640
Cellular component	extracellular matrix	16	0.00001
Cellular component	plasma membrane	40	0.00113
Cellular component	plasma membrane part	28	0.01028
Cellular component	extracellular space	12	0.01154
Cellular component	collagen	3	0.04885
Molecular function	cytoskeletal protein binding	13	0.00060
Molecular function	L-ascorbic acid binding	4	0.00115
Molecular function	metal ion binding	48	0.00229
Molecular function	cation binding	42	0.01394
Molecular function	dioxygenase activity	4	0.01907
Molecular function	oxidoreductase activity	4	0.01907
Molecular function	polysaccharide binding	5	0.02220
Molecular function	protein complex binding	5	0.02374
Molecular function	receptor binding	14	0.03023
Molecular function	calmodulin binding	5	0.04727

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DOWN REGULATED GENES

Category	Term	Gene count	EASE PValue
Bioloiical process	regulation of immune system process	8	0.00035
Bioloiical process	regulation of cell proliferation	13	0.03354
Bioloiical process	lipid metabolic process	27	0.00000
Bioloiical process	system development	36	0.00321
Bioloiical process	leukocyte mediated immunity	5	0.02451
Bioloiical process	positive regulation of biological process	26	0.00448
Bioloiical process	lipid biosynthetic process	12	0.00046
Bioloiical process	organ development	31	0.00065
Bioloiical process	response to toxin	3	0.04007
Bioloiical process	positive regulation of multicellular organismal process	8	0.00051
Bioloiical process	regulation of multicellular organismal process	10	0.01802
Bioloiical process	regulation of immune response	8	0.00030
Bioloiical process	immune effector process	7	0.00440
Bioloiical process	humoral immune response	8	0.00007
Bioloiical process	complement activation	7	0.00001
Bioloiical process	innate immune response	6	0.00903

Bioloiical process	adaptive immune response	5	0.02348
Bioloiical process	organ morphogenesis	12	0.02292
Bioloiical process	alcohol metabolic process	15	0.00004
Bioloiical process	cellular lipid metabolic process	20	0.00016
Bioloiical process	positive regulation of immune system process	8	0.00012
Bioloiical process	learning and/or memory	4	0.04557
Cellular component	endoplasmic reticulum part	16	0.00097
Cellular component	extracellular matrix	7	0.01951
Cellular component	endoplasmic reticulum membrane	16	0.00026
Cellular component	endomembrane system	22	0.00615
Cellular component	nuclear envelope-endoplasmic reticulum network	16	0.00033
Cellular component	extracellular space	13	0.04742
Molecular function	bile acid binding	2	0.02738
Molecular function	intramolecular oxidoreductase activity	4	0.01413
Molecular function	oxidoreductase activity, acting on the CH-CH group of donors	6	0.00029
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Molecular function	oxidoreductase activity, acting on CH-OH group of donors	6	0.01037
Molecular function	phosphatase inhibitor activity	3	0.03638
Molecular function	serine hydrolase activity	6	0.04990