

molecular function

		UP in DKO	DOWN in DKO
molecular function	18509	337	1197
0003700 transcription factor activity	721	33 / 13	56 / 47
0043565 sequence-specific DNA binding	615	29 / 11	48 / 40
0030528 transcription regulator activity	1244	48 / 23	114 / 81
0003824 catalytic activity	4766	85 / 87	414 / 308
0043560 insulin receptor substrate binding	10	0 / 0	6 / 1
0051427 hormone receptor binding	96	0 / 2	18 / 6
0043559 insulin binding	6	0 / 0	4 / 0

biological process

		UP in DKO	DOWN in DKO
biological process	18675	340	1206
0009888 tissue development	825	36 / 15	66 / 53
0007399 nervous system development	1097	55 / 20	97 / 71
0001501 skeletal system development	330	21 / 6	30 / 21
0051216 cartilage development	105	10 / 2	6 / 7
0031643 positive regulation of myelination	4	3 / 0	0 / 0
0007155 cell adhesion	566	36 / 10	42 / 37
0008152 metabolic process	7296	168 / 133	645 / 471
0033554 cellular response to stress	608	8 / 11	79 / 39
0051716 cellular response to stimulus	3431	80 / 63	286 / 222
0044267 cellular protein metabolic process	2050	46 / 37	196 / 132
0044281 small molecule metabolic process	1756	28 / 32	153 / 113
0006629 lipid metabolic process	762	12 / 14	78 / 49
0008202 steroid metabolic process	197	1 / 4	32 / 13
0006695 cholesterol biosynthetic process	26	0 / 1	8 / 2
0006066 alcohol metabolic process	418	2 / 8	46 / 27
0000278 mitotic cell cycle	358	3 / 7	42 / 23
0022402 cell cycle process	544	8 / 10	62 / 35
0006916 anti-apoptosis	156	3 / 3	27 / 10
0007548 sex differentiation	182	7 / 3	25 / 12
0046545 development of primary female sexual characteristics	87	2 / 2	17 / 6
0008406 gonad development	131	5 / 2	20 / 9
0048545 response to steroid hormone stimulus	151	4 / 3	22 / 10
0043406 positive regulation of MAP kinase activity	106	4 / 2	18 / 7
0045860 positive regulation of protein kinase activity	247	10 / 5	31 / 16

cellular component

		UP in DKO	DOWN in DKO
cellular component	18880	345	1219
0031012 extracellular matrix	320	18 / 6	22 / 21
0005925 focal adhesion	99	9 / 2	12 / 6
0005634 nucleus	4509	138 / 82	447 / 291
0044444 cytoplasmic part	5163	107 / 94	448 / 333
0005739 mitochondrion	1365	18 / 25	118 / 88

