

Table A3. Gene Ontology (GO) analysis of genes selected in a non-paired sample comparison between IL-2-deprived and non-deprived lymphocytes (see Additional file 1).

Cellular Component				
GO ID	GO Term	Observed in the selected subset	Expected in the selected subset	Observed/Expected
GO:0009986	cell surface	5	0.74	6.74
GO:0005615	extracellular space	7	1.74	4.02
GO:0005768	endosome	5	1.51	3.32
GO:0044421	extracellular region part	8	2.92	2.74
Molecular Function				
GO ID	GO Term	Observed in the selected subset	Expected in the selected subset	Observed/Expected
GO:0016868	intramolecular transferase activity, phosphotransferases	5	0.11	43.89
GO:0005126	hematopoietin/interferon-class (D200-domain) cytokine receptor binding	6	0.23	26.33
GO:0016866	intramolecular transferase activity	5	0.25	19.75
GO:0030246	carbohydrate binding	5	1.16	4.29
GO:0016853	isomerase activity	7	2.13	3.29
GO:0016881	acid-amino acid ligase activity	5	1.7	2.95
GO:0019899	enzyme binding	6	2.33	2.58
GO:0004721	phosphoprotein phosphatase activity	5	2.04	2.45
Biological Process				
GO ID	GO Term	Observed in the selected subset	Expected in the selected subset	Observed/Expected
GO:0007259	JAK-STAT cascade	8	0.48	16.68
GO:0009968	negative regulation of signal transduction	6	0.88	6.84
GO:0018193	peptidyl-amino acid modification	5	1.01	4.93
GO:0001558	regulation of cell growth	5	1.07	4.68
GO:0040008	regulation of growth	5	1.32	3.8
GO:0016049	cell growth	5	1.38	3.61
GO:0008361	regulation of cell size	5	1.38	3.61
GO:0051674	localization of cell	9	2.88	3.13
GO:0006928	cell motility	9	2.88	3.13
GO:0007610	behavior	5	1.71	2.92
GO:0040007	growth	5	1.82	2.74
GO:0042221	response to chemical stimulus	9	3.44	2.62
GO:0007267	cell-cell signaling	7	2.93	2.39

The number of genes changed in each category was compared with the number of expected occurrences. Only GO classes and parent classes with at least 5 observations in the selected subset and with an 'observed vs. expected' ratio of at least 2 were shown.