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Analysis Type: PANTHER Overrepresentation Test (release 20160715)
Annotation Version and Release Date: PANTHER version 11.1 Released 2016-10-24

MYB3R3 and RBR1 overlap

PANTHER GO-Slim Biological Process	REFLIST (27352)	MYB3R3 & RBR1 (212)	fold Enrichment	P-value
DNA replication (GO:0006260)	145	17	15.13	7.06E-13
chromatin organization (GO:0006325)	194	22	14.63	1.11E-16
chromosome segregation (GO:0007059)	84	7	10.75	9.10E-04
DNA recombination (GO:0006310)	60	5	10.75	2.10E-02
DNA repair (GO:0006281)	211	14	8.56	3.08E-07
mitosis (GO:0007067)	303	18	7.66	8.08E-09
cell cycle (GO:0007049)	455	21	5.95	1.85E-08
nucleobase-containing compound metabolic process (GO:0006139)	573	23	5.18	3.40E-08

RBR1 only

PANTHER GO-Slim Biological Process	REFLIST (27352)	RBR1 only (715)	fold Enrichment	P-value
DNA recombination (GO:0006310)	60	14	8.93	2.33E-07
DNA replication (GO:0006260)	145	29	7.65	2.02E-14
DNA repair (GO:0006281)	211	42	7.61	3.21E-21
chromosome segregation (GO:0007059)	84	16	7.29	2.78E-07
meiosis (GO:0007126)	48	8	6.38	8.67E-03
chromatin organization (GO:0006325)	194	23	4.54	7.21E-07
mitosis (GO:0007067)	303	34	4.29	6.32E-10
cellular component movement (GO:0006928)	163	14	3.29	2.42E-02
cell cycle (GO:0007049)	455	31	2.61	3.88E-04
response to stress (GO:0006950)	718	39	2.08	3.91E-03
nitrogen compound metabolic process (GO:0006807)	1742	78	1.71	6.09E-04

MYB3R3 only

PANTHER GO-Slim Biological Process	REFLIST (27352)	MYB3R3 only (185)	fold Enrichment	P-value
cellular component movement (GO:0006928)	163	10	9.07	3.92E-05
mitosis (GO:0007067)	303	11	5.37	1.50E-03
phosphate-containing compound metabolic process (GO:0006796)	1003	19	2.8	1.03E-02