

**Table S4. List of GO terms overrepresented in the set of genes found within the 102 candidate regions.**

Category	Term description	Term	<i>P</i> -value	Fold Enrichment	Count
Biological process	regulation of transcription	GO:0045449	0.00434	1.472	48
Biological process	transcription	GO:0006350	0.00607	1.521	40
Biological process	chromatin organization	GO:0006325	0.01394	2.313	12
Biological process	nuclear-transcribed mRNA catabolic process, nonsense-mediated decay	GO:0000184	0.01706	7.083	4
Biological process	nuclear-transcribed mRNA catabolic process	GO:0000956	0.02733	5.964	4
Biological process	actin filament-based process	GO:0030029	0.02919	2.452	9
Biological process	chromatin modification	GO:0016568	0.02976	2.285	10
Biological process	macromolecule catabolic process	GO:0009057	0.03071	1.657	20
Biological process	regulation of translation	GO:0006417	0.03734	3.207	6
Biological process	chromosome organization	GO:0051276	0.04232	1.879	13
Biological process	mRNA catabolic process	GO:0006402	0.0451	4.927	4
Molecular Function	ubiquitin thiolesterase activity	GO:0004221	0.0019	5.198	7
Molecular Function	guanyl-nucleotide exchange factor activity	GO:0005085	0.00635	3.211	9
Molecular Function	thiolester hydrolase activity	GO:0016790	0.00723	4.006	7
Molecular Function	DNA binding	GO:0003677	0.01943	1.412	40
Molecular Function	vitamin B6 binding	GO:0070279	0.02716	4.293	5
Molecular Function	pyridoxal phosphate binding	GO:0030170	0.02716	4.293	5
Molecular Function	cofactor binding	GO:0048037	0.04543	2.113	10
Molecular Function	protein domain specific binding	GO:0019904	0.04601	2.415	8
Cellular component	membrane-enclosed lumen	GO:0031974	0.00705	1.656	29
Cellular component	nuclear lumen	GO:0031981	0.00904	1.769	23
Cellular component	nucleoplasm	GO:0005654	0.00979	2.002	17

Cellular component	organelle lumen	GO:0043233	0.01536	1.595	27
Cellular component	intracellular organelle lumen	GO:0070013	0.01536	1.595	27
Cellular component	nucleoplasm part	GO:0044451	0.0328	1.884	14
Cellular component	plasma membrane part	GO:0044459	0.04081	1.39	33

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