

Group	Ontology	Direction	GO ID	Term	Annotated	Significant	Expected	p-value	adjusted p-value (FDR)		
Early expression	MF	Enriched	GO:0008026	ATP-dependent helicase activity	32	19	9.07	0.00023	0.08671		
			GO:0003899	DNA-directed RNA polymerase activity	18	12	5.1	0.0008	0.1046175		
			GO:0004926	non-G-protein coupled 7TM receptor activity	8	7	2.27	0.00087	0.1046175		
			GO:0008270	zinc ion binding	519	178	147.04	0.00111	0.1046175		
			GO:0003702	RNA polymerase II transcription factor activity	19	12	5.38	0.00161	0.121394		
		Depleted	GO:0001584	rhodopsin-like receptor activity	73	4	20.68	7.50E-07	0.00028275		
			GO:0005509	calcium ion binding	189	32	53.55	0.00015	0.02639		
			GO:0005102	receptor binding	105	8	29.75	0.00021	0.02639		
			GO:0005262	calcium channel activity	115	17	32.58	0.00043	0.0405275		
			GO:0019855	calcium channel inhibitor activity	113	17	32.02	0.00063	0.047502		
			GO:0005198	structural molecule activity	187	30	52.98	0.00125	0.078541667		
			GO:0015077	monovalent inorganic cation transmembrane transporter activity	54	3	15.3	0.00186	0.0970775		
			GO:0004497	monooxygenase activity	54	6	15.3	0.00206	0.0970775		
			GO:0004871	signal transducer activity	371	68	105.11	0.00257	0.107654444		
			GO:0008135	translation factor activity, nucleic acid binding	36	3	10.2	0.00336	0.126672		
			GO:0005179	hormone activity	35	3	9.92	0.00434	0.148743636		
			GO:0008083	growth factor activity	40	4	11.33	0.00476	0.149543333		
			BP	Enriched	GO:0006396	RNA processing	61	31	17.35	0.00017	0.12971
				Depleted	GO:0007186	G-protein coupled receptor protein signaling pathway	103	7	29.3	3.20E-08	2.44E-05
					GO:0006783	heme biosynthetic process	56	4	15.93	7.60E-05	0.028994
GO:0006816	calcium ion transport	118			17	33.56	0.00022	0.055953333			
GO:0006118	electron transport	132			21	37.55	0.0005	0.095375			
Late expression	MF	Enriched	GO:0005201	extracellular matrix structural constituent	8	8	1.09	1.10E-07	4.15E-05		
			GO:0005509	calcium ion binding	189	50	25.73	1.40E-06	0.0002639		
			GO:0019855	calcium channel inhibitor activity	113	32	15.39	2.70E-05	0.003393		
			GO:0005262	calcium channel activity	115	32	15.66	3.90E-05	0.00367575		
			GO:0019842	vitamin binding	20	9	2.72	0.00063	0.047502		
	Depleted	GO:0003676	nucleic acid binding	1043	107	142.01	0.00021	0.07917			
	BP	Enriched	GO:0006816	calcium ion transport	118	33	15.94	2.20E-05	0.0087745		
			GO:0006096	glycolysis	32	16	4.32	2.30E-05	0.0087745		
			GO:0030574	collagen catabolic process	19	10	2.57	5.60E-05	0.014242667		
			GO:0030239	myofibril assembly	9	6	1.22	0.00035	0.0667625		
GO:0009310			amine catabolic process	10	6	1.35	7.70E-04	0.117502			