

#	Keywords	Number of proteins	Number of families	Average sequence length	Z-score	P-value
1	Ribonucleoprotein	12236	412	150.55	22.13	1
2	Ribosomal protein	11692	330	140.58	20.63	1
3	Developmental protein	3260	721	477.93	19.28	1
4	Hormone	1187	161	141.13	15.58	1
5	Growth factor	785	84	255.70	11.16	1
6	Cytokine	899	110	213.28	10.21	1
7	Neuropeptide	268	209	95.08	9.65	1
8	Activator	3086	573	428.47	9.04	1
9	GAP protein	47	2	232.96	7.42	1
10	Antigen	1113	455	437.48	6.99	1
11	Repressor	2309	449	374.46	6.92	1
12	Chromatin regulator	334	100	801.24	6.70	1
13	Pyrogen	37	2	262.59	6.44	1
14	Vasoactive	125	39	160.39	5.56	1
15	Amphibian defense peptide	123	148	50.64	5.44	1
16	GTPase activation	311	70	831.03	5.36	1
17	Endorphin	42	4	226.68	5.35	1
18	Opioid peptide	24	4	216.96	5.14	1
19	Protein phosphatase inhibitor	47	8	366.51	5.07	1
20	Cyclin	182	25	430.58	4.88	1

#	name	n	avg_len	avg_dis	z	p
1	DNA-binding	6518	546.53	0.87	46.90	1.0
2	Developmental protein	3897	655.21	0.86	31.10	1.0
3	Activator	2574	600.51	0.88	28.12	1.0
4	Repressor	1988	589.29	0.85	22.63	1.0
5	RNA-binding	2728	575.76	0.76	16.62	1.0
6	Chromatin regulator	1038	847.06	0.90	13.91	1.0
7	Ribonucleoprotein	1886	272.29	0.60	13.39	1.0
8	Serine/threonine-protein kinase	1782	802.24	0.84	11.56	1.0
9	Chaperone	937	430.43	0.71	10.02	1.0
10	Ribosomal protein	1408	186.38	0.53	9.34	1.0
11	Growth factor	398	299.63	0.70	8.98	1.0
12	Protein kinase inhibitor	49	337.20	0.96	8.34	1.0
13	Calmodulin-binding	520	1229.00	0.90	7.57	1.0
14	Hormone	338	221.13	0.59	7.24	1.0
15	Cyclin	133	422.71	0.87	7.18	1.0
16	Signal transduction inhibitor	115	408.43	0.84	6.76	1.0
17	Guanine-nucleotide releasing factor	319	1144.39	0.96	6.40	1.0
18	GTPase activation	424	867.35	0.88	6.28	1.0
19	Growth factor binding	50	593.98	1.00	6.09	1.0
20	Neuropeptide	105	234.96	0.68	5.99	1.0
21	Potassium channel	191	621.52	0.85	5.10	1.0
22	Calcium channel	193	1397.77	0.93	5.09	1.0
23	Protein phosphatase inhibitor	64	352.86	0.81	5.07	1.0
24	Tyrosine-protein kinase	376	863.00	0.89	5.04	1.0
25	Mitogen	137	286.03	0.68	4.80	1.0
26	Vasoactive	46	267.00	0.76	4.29	1.0
27	Heparin-binding	221	650.97	0.73	3.88	1.0
28	Muscle protein	193	920.01	0.73	3.81	1.0
29	Actin-binding	837	974.92	0.77	3.80	0.999
30	Endorphin	12	246.50	1.00	3.49	1.0
31	Amphibian defense peptide	49	85.80	0.53	3.34	1.0
32	Helicase	739	1086.05	0.87	3.29	1.0
33	Opioid peptide	9	228.67	1.00	3.14	1.0

