										Neuređene ključne MF-r	eči iz o	vog rada (z-skor >	0.2)	
									#	name	n		avg_dis	Z	p
_ ,	`								0	DNA-binding	6518	546.53	0.87	46.90	1
a)							*	1	Developmental protein	3897	655.21	0.86	31.10	1
•	•							/1	2	Activator	2574	600.51	0.88	28.12	1
_	statistički najznačajnijih neure							///	3	Repressor	1988	589.29	0.85	22.63	1
#	name		n families			_		/ //	4	RNA-binding	2728	575.76	0.76	16.62	1
0	Ribonucleoprotein	12236	412	150.55	22.13		$\overline{}$	<u> </u>	5	Chromatin regulator	1038	847.06	0.90	13.91	1
1	Ribosomal protein	11692	330	140.58	20.63			177	6	Ribonucleoprotein	1886	272.29	0.60	13.39	1
2	Developmental protein	3260	721	477.93	19.28		$\overline{}$	\mathcal{M}	7	Serine/threonine-protein ki	1782	802.24	0.84	11.56	1
3	Hormone	1187	161	141.13	15.58	_		/ // 🛰	8	Chaperone	937	430.43	0.71	10.02	1
4	Growth factor	785	84	255.70	11.16			+	9	Ribosomal protein	1408	186.38	0.53	9.34	1
5	Cytokine	899	110 209	213.28 95.08	9.65	1		X -	10	Growth factor Protein kinase inhibitor	398	299.63 337.20	0.70	8.98 8.34	1
6 7	Neuropeptide Activator	268 3086	573	428.47	9.03	1		/ \	12	Calmodulin-binding	49 520	1229.00	0.96	7.57	1
8	GAP protein	47	2	232.96	7.42	1		/	13	Hormone	338	221.13	0.59	7.24	1
9	Antigen	1113	455	437.48	6.99	1		\	14	Cyclin	133	422.71	0.87	7.18	1
10	Repressor	2309	449	374.46	6.92	1		\ 1	15	Signal transduction inhibitor	115	408.43	0.84	6.76	1
11	Chromatin regulator	334	100	801.24	6.70	1		\ /	16	Guanine-nucleotide releasin	319	1144.39	0.96	6.40	1
12	Pyrogen	37	2	262.59	6.44	1		X	17	GTPase activation	424	867.35	0.88	6.28	1
13	Vasoactive	125	39	160.39	5.56	1			18	Growth factor binding	50	593.98	1	6.09	1
14	Amphibian defense peptide	123	148	50.64	5.44	1		/ \	19	Neuropeptide Neuropeptide	105	234.96	0.68	5.99	1
15	GTPase activation	311	70	831.03	5.36	1		/	20	Potassium channel	191	621.52	0.85	5.10	1
16	Endorphin	42	4	226.68	5.35	1		X	21	Calcium channel	193	1397.77	0.93	5.09	1
17	Opioid peptide	24	4	216.96	5.14	1		حر \	22	Protein phosphatase inhibitor	64	352.86	0.81	5.07	1
18	Protein phosphatase inhibitor	47	8	366.51	5.07	1		++	23	Tyrosine-protein kinase	376	863.00	0.89	5.04	1
19	Cyclin	182	25	430.58	4.88	1		//	24	Mitogen	137	286.03	0.68	4.80	1
	·		I.	!	·!	·		/ *	25	Vasoactive	46	267.00	0.76	4.29	1
								\	26	Heparin-binding	221	650.97	0.73	3.88	1
h ۱	1							\	27	Muscle protein	193	920.01	0.73	3.81	1
b)								\	28	Actin-binding	837	974.92	0.77	3.80	1
	Neuređene ključne MF-re	či iz ovo	og rada (z-	skor > 0.	2)		1	•	29	Amphibian defense peptide	49	85.80	0.53	3.34	1
#	name	n		avg_dis	z	р									
0	DNA-binding	6518	546.53	0.87	46.90	1				Neuređeni MF-termini dobijeni	iz dire	ktnog i izv	edenog 1	mapiran	ja
1	Developmental protein	3897	655.21	0.86	31.10	1		#		name	n	avg_len	avg_dis	Z	р
2	Activator	2574	600.51	0.88	28.12	1	[']	_ 0		DNA binding	8254	574.89	0.86	46.13	1
3	Repressor	1988	589.29	0.85	22.63	1		1	s	sequence-specific DNA binding	3836	536.95	0.92	41.77	1
4	RNA-binding	2728	575.76	0.76	16.62	1	<u> </u>	2		chromatin binding	1538	713.64	0.93	23.54	1
5	Chromatin regulator	1038	847.06	0.90	13.91	1		3		RNA binding	5797	565.80	0.73	19.79	1
6	Ribonucleoprotein	1886	272.29	0.60	13.39	1	<u> </u>	4		receptor binding	4109	529.68	0.68	14.04	1
7	Serine/threonine-protein ki	1782	802.24	0.84	11.56	1	1	→ 5		protein serine/threonine ki	1942	784.87	0.84	12.88	1
8	Chaperone	937	430.43	0.71	10.02	1	١,	6		structural molecule activity	2884	558.88	0.64	10.84	1
9	Ribosomal protein	1408	186.38	0.53	9.34	1	-!-	- 7		structural constituent of r	1350	182.95	0.53	9.25	1
10	Growth factor	398	299.63	0.70	8.98	1	+	8		calmodulin binding	710	1079.79	0.88	9.22	1
11	Protein kinase inhibitor	49	337.20	0.96	8.34	1	<i>-</i>	9	1	growth factor activity	458	312.38	0.70	8.99	1
12	Calmodulin-binding	520	1229.00	0.90	7.57	1		1/ 10	_	protein kinase inhibitor ac	237	401.60	0.82	8.94	1
13	Hormone	338	221.13	0.59	7.24	1	Г	# 7 11		hormone activity	452	218.09	0.61	8.84	1
14	Cyclin Signal transduction inhibitor	133	422.71	0.87	7.18	1	``.	1 / 12	_	cell adhesion molecule binding	1090	805.74	0.80	8.60	1
15 16	Signal transduction inhibitor Guanine-nucleotide releasin	115 319	408.43 1144.39	0.84	6.76 6.40	1	[-	13		GTPase activator activity actin binding	633 1228	820.60 1000.47	0.87	8.15 7.73	1
17	GTPase activation	424	867.35	0.96	6.40	1	\triangleright	1 14		cyclin-dependent protein se	142	357.65	0.80	6.58	1
18		+24	007.33	0.00	0.40	1		$\frac{13}{16}$		protein tyrosine kinase act		221.03		6.26	1
	Growth factor binding	50	593 98	1	6.09	1		17			504	933 02	0.86		
	Growth factor binding Neuropeptide	50 105	593.98 234.96	1 0.68	6.09 5.99	1		/ —			504 575	933.02 990.55	0.86		1
19	Neuropeptide	105	234.96	0.68	5.99	1	1	// 🗕 18		guanyl-nucleotide exchange	575	990.55	0.86	6.22	1
							1	18		guanyl-nucleotide exchange protein phosphatase inhibit					1 1 1
19 20	Neuropeptide Potassium channel Calcium channel	105 191	234.96 621.52 1397.77	0.68 0.85 0.93	5.99 5.10 5.09	1		19		guanyl-nucleotide exchange protein phosphatase inhibit heparin binding	575 89	990.55 425.83 652.76	0.86 0.83	6.22 6.19	1
19 20 21	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor	105 191 193	234.96 621.52	0.68 0.85	5.99 5.10	1 1 1		//'	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity	575 89 403	990.55 425.83	0.86 0.83 0.76	6.22 6.19 6.01	1
19 20 21 22 23	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase	105 191 193 64 376	234.96 621.52 1397.77 352.86 863.00	0.68 0.85 0.93 0.81 0.89	5.99 5.10 5.09 5.07 5.04	1 1 1 1		19 20 21	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity	575 89 403 117 225	990.55 425.83 652.76 158.64 1394.78	0.86 0.83 0.76 0.65 0.97	6.22 6.19 6.01 5.88 5.65	1 1 1
19 20 21 22	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor	105 191 193 64	234.96 621.52 1397.77 352.86	0.68 0.85 0.93 0.81	5.99 5.10 5.09 5.07	1 1 1		19	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity	575 89 403 117	990.55 425.83 652.76 158.64	0.86 0.83 0.76 0.65	6.22 6.19 6.01 5.88	1 1 1
19 20 21 22 23 24	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen	105 191 193 64 376 137	234.96 621.52 1397.77 352.86 863.00 286.03	0.68 0.85 0.93 0.81 0.89 0.68	5.99 5.10 5.09 5.07 5.04 4.80	1 1 1 1 1		19 20 21 22	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity	575 89 403 117 225 1059	990.55 425.83 652.76 158.64 1394.78 462.66	0.86 0.83 0.76 0.65 0.97 0.63	6.22 6.19 6.01 5.88 5.65 5.60	1 1 1 1
19 20 21 22 23 24 25	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive	105 191 193 64 376 137 46	234.96 621.52 1397.77 352.86 863.00 286.03 267.00	0.68 0.85 0.93 0.81 0.89 0.68 0.76	5.99 5.10 5.09 5.07 5.04 4.80 4.29	1 1 1 1 1 1		19 20 21 22 23	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity	575 89 403 117 225 1059 339	990.55 425.83 652.76 158.64 1394.78 462.66 612.39	0.86 0.83 0.76 0.65 0.97 0.63 0.79	6.22 6.19 6.01 5.88 5.65 5.60 4.88	1 1 1 1 1 1
19 20 21 22 23 24 25 26	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding	105 191 193 64 376 137 46 221	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88	1 1 1 1 1 1 1		19 20 21 22 23 24	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding	575 89 403 117 225 1059 339 284	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80	0.86 0.83 0.76 0.65 0.97 0.63 0.79	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31	1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein	105 191 193 64 376 137 46 221 193	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.73	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81	1 1 1 1 1 1 1 1		19 20 21 22 23 24 25	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding	575 89 403 117 225 1059 339 284 351	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31	1 1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27 28	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein Actin-binding	105 191 193 64 376 137 46 221 193 837	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01 974.92	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.73	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81 3.80	1 1 1 1 1 1 1 1 1		19 20 21 22 23 24 25 26	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding chloride channel inhibitor	575 89 403 117 225 1059 339 284 351 25	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85 827.64	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31 4.20 3.96	1 1 1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27 28 29	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein Actin-binding Amphibian defense peptide	105 191 193 64 376 137 46 221 193 837 49	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01 974.92 85.80	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.73 0.77 0.53	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81 3.80 3.34	1 1 1 1 1 1 1 1 1 1 1		20 21 22 23 24 25 26 27	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding chloride channel inhibitor calcium channel activity	575 89 403 117 225 1059 339 284 351 25 327	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85 827.64 1205.13	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79 0.96	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31 4.20 3.96	1 1 1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27 28 29 30	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein Actin-binding Amphibian defense peptide Helicase	105 191 193 64 376 137 46 221 193 837 49 739	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01 974.92 85.80 1086.05	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.77 0.53 0.87	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81 3.80 3.34 3.29	1 1 1 1 1 1 1 1 1 1 1		20 21 22 23 24 25 26 27 28	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding chloride channel inhibitor calcium channel activity morphogen activity	575 89 403 117 225 1059 339 284 351 25 327 23	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85 827.64 1205.13 331.57	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79 0.96 0.86 0.83	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31 4.20 3.96 3.54 3.20	1 1 1 1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27 28 29 30 31	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein Actin-binding Amphibian defense peptide Helicase Prion	105 191 193 64 376 137 46 221 193 837 49 739	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01 974.92 85.80 1086.05 497.05	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.77 0.53 0.87 0.91	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81 3.80 3.34 3.29 3.06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20 21 22 23 24 25 26 27 28 29	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding chloride channel inhibitor calcium channel activity morphogen activity helicase activity	575 89 403 117 225 1059 339 284 351 25 327 23 766	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85 827.64 1205.13 331.57 1068.02	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79 0.96 0.86 0.83	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31 4.20 3.96 3.54 3.20 3.15	1 1 1 1 1 1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27 28 29 30 31 32	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein Actin-binding Amphibian defense peptide Helicase Prion Ion channel	105 191 193 64 376 137 46 221 193 837 49 739 22 1027	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01 974.92 85.80 1086.05 497.05 861.88	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.77 0.53 0.87 0.91 0.76	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81 3.80 3.34 3.29 3.06 2.89	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20 21 22 23 24 25 26 27 28 29 30	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding chloride channel inhibitor calcium channel activity morphogen activity helicase activity motor activity	575 89 403 117 225 1059 339 284 351 25 327 23 766 447	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85 827.64 1205.13 331.57 1068.02 1275.57	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79 0.96 0.86 0.86	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31 4.20 3.96 3.54 3.20 3.15	1 1 1 1 1 1 1 1 1 1 1 1 1
19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	Neuropeptide Potassium channel Calcium channel Protein phosphatase inhibitor Tyrosine-protein kinase Mitogen Vasoactive Heparin-binding Muscle protein Actin-binding Amphibian defense peptide Helicase Prion Ion channel Voltage-gated channel	105 191 193 64 376 137 46 221 193 837 49 739 22 1027 386	234.96 621.52 1397.77 352.86 863.00 286.03 267.00 650.97 920.01 974.92 85.80 1086.05 497.05 861.88 816.98	0.68 0.85 0.93 0.81 0.89 0.68 0.76 0.73 0.77 0.53 0.87 0.91 0.76 0.78	5.99 5.10 5.09 5.07 5.04 4.80 4.29 3.88 3.81 3.80 3.34 3.29 3.06 2.89 2.87	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20 21 22 23 24 25 26 27 28 29 30 31 31	1	guanyl-nucleotide exchange protein phosphatase inhibit heparin binding neuropeptide hormone activity microtubule motor activity enzyme inhibitor activity potassium channel activity damaged DNA binding growth factor binding chloride channel inhibitor calcium channel activity morphogen activity helicase activity motor activity voltage-gated ion channel a	575 89 403 117 225 1059 339 284 351 25 327 23 766 447 501	990.55 425.83 652.76 158.64 1394.78 462.66 612.39 680.80 737.85 827.64 1205.13 331.57 1068.02 1275.57 767.73	0.86 0.83 0.76 0.65 0.97 0.63 0.79 0.80 0.79 0.96 0.86 0.86 0.86 0.76	6.22 6.19 6.01 5.88 5.65 5.60 4.88 4.31 4.20 3.96 3.54 3.20 3.15 3.10	1 1 1 1 1 1 1 1 1 1 1 1 1 1