Presidence unables: WH splace risk is transpeale (selection of the processing of t										Predviđeno uređeni MF termini dobijeni iz direktnog i izvedenog mapiranja						
Osabimentatione		Predviđeno uređene MF ključne reči iz ovog rada (z-skor < -0.2)							#	пате	n	avg_len	avg_dis	Z	p	
Image: Part	#	name	n	avg_len	avg_dis	Z	p]	0	catalytic activity	28179	569.86	0.48	-52.25	0	
1	0	Oxidoreductase	4126	472.25	0.28	-41.35	0	<u> </u>	1	oxidoreductase activity	4986	450.49	0.30	-39.62	0	
Mononosygname	1	Hydrolase	7564	614.81	0.51	-26.99	0	<u> </u>	2	hydrolase activity	11097	623.94	0.53	-27.76	0	
A	2	Lyase	1431	481.37	0.30	-23.62	0	_	3	lyase activity	1624	480.74	0.31	-24.47	0	
Secretarian	3	Monooxygenase	555	503.36	0.20	-20.29	0		4	monooxygenase activity	633	511.13	0.22	-21.40	0	
Clycocyltrandernee	4	Transferase	8846	631.95	0.55	-19.72	0		5	transporter activity	5388	621.16	0.53	-19.15	0	
Ciprosidase	5	Ligase	995	693.30	0.46	-18.05	0		6	transferase activity	10428	619.96	0.56	-18.80	0	
Protesse	6	Glycosyltransferase	1134	551.26	0.40	-17.04	0	 	7	transferase activity, trans	1343	545.86	0.41	-18.49	0	
Porcesse	7	Glycosidase	697	570.50	0.37	-16.81	0		8	ligase activity	1097	675.42	0.46	-16.68	0	
10	8	Isomerase	931	422.72	0.35	-13.60	0		9	hydrolase activity, acting	934	548.13	0.39	-16.32	0	
13 G protein coupled receptor 1885 465.62 0.39 12.45 0 12 Acyltransferase 867 531.58 0.42 -11.28 0 13 Depthoduse activity 292 494.47 0.26 -13.09 0 14 Ammortansferase 202 451.05 0.25 -1.070 0 15 Ammortansferase 202 451.05 0.25 -1.070 0 15 Ammortansferase 202 451.05 0.24 -1.028 0 15 Ammortansferase 202 451.05 0.24 -1.028 0 15 Ammortansferase 202 451.05 0.24 -1.028 0 15 Ammortansferase 460 700.07 0.50 -8.87 0 16 Serine protease 460 700.07 0.50 -8.87 0 17 Ammortansferase 460 700.07 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 48.54 0 0 0 48.54 0 0 0 48.54 0 0 0 0 0 0 0 0 0	9	Protease	1863	674.42	0.54	-13.20	0		10	isomerase activity	1046	425.93	0.35	-14.19	0	
12	10	Transducer	1703	482.28	0.41	-12.56	0		11	transferase activity, trans	1235	540.97	0.43	-13.31	0	
13	11	G-protein coupled receptor	1385	465.62	0.39	-12.45	0		12	carboxy-lyase activity	292	494.47	0.26	-13.09	0	
14	12	Acyltransferase	867	531.58	0.42	-11.28	0		13	peptidase activity	2211	644.11	0.53	-13.05	0	
15	13	Decarboxylase	195	488.21	0.25	-10.70	0	H /	14	G-protein coupled receptor	1473	465.64	0.40	-12.30	0	
16	14	Aminotransferase	202	451.05	0.24	-10.23	0	N = 1	15	carboxylic ester hydrolase	628	482.21	0.37	-12.01	0	
18	15	Aminopeptidase	130	668.72	0.37	-9.10	0		16	serine-type peptidase activity	708	614.43	0.46	-10.79	0	
Methyltransferase	16	Serine protease	460	700.07	0.50	-8.87	0	1	17	aminopeptidase activity	177	633.80	0.35	-10.74	0	
19	17	Metalloprotease	507	688.25	0.56	-8.43	0		18	transaminase activity	230	459.43	0.26	-10.46	0	
Threonine protease 138 246.88 0.18 -7.50 0 21 Dioxygenase 366 623.32 0.48 -7.30 0 22 ATP binding 7585 801.90 0.56 8.44 0 0 23 Receptor 3424 647.92 0.59 -7.09 0 24 Portionalise activity 419 604.98 0.48 -7.81 0 24 Portionalise activity 282 414.57 0.34 -7.11 0 24 Portionalise activity 282 414.57 0.34 -7.11 0 25 Portionalise 221 457.61 0.40 -5.50 0 26 Portionalise 25 Portionalise 25 Portionalise 25 252.27 0.23 4.43 0 0 27 Portin 63 318.84 0.21 4.55 0 28 Portionalise 25 Portionalise 25 252.27 0.23 4.43 0 0 28 Portionalise 25 Portionalise Portionalise 25 Portionalise 25 Portionalise 25 Porti	18	Methyltransferase	874	611.22	0.47	-8.33	0	1	19	methyltransferase activity	947	607.08	0.48	-8.77	0	
Dioxygenase 366 622.32 0.48 7.39 0 22 Scrine esterase 141 423.09 0.28 7.21 0 23 Receptor 3424 423.09 0.28 7.21 0 24 Nucleotidyltransferase 600 969.68 0.63 6.18 0 25 Peroxidase 600 969.68 0.65 6.18 0 25 Peroxidase 221 457.61 0.40 5.50 0 26 Serine protease inhibitor 182 497.66 0.38 4.92 0 0 27 Porin 63 318.84 0.21 4.55 0 28 Dipeptidase 22 522.27 0.23 4.43 0 29 Integrin 71 1038.25 0.70 4.29 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 4.11 0 32 Neurotoxin 66 209.62 0.17 3.30 0 34 4.415 0 34 4.62 0.41 4.15 0 34 4.62 0.41 4.15 0 35 Myosin 185 1275.20 0.72 3.29 0.13 3.37 0 36 Photoreceptor protein 77 540.68 0.47 3.25 0.01 4.05 39 Ehogation factor 106 467.68 0.48 2.59 0.01 41 Bacteriolytic enzyme 35 434.66 0.31 2.53 0.01 42 Nuclease 703 688.54 0.60 2.49 0.01 45 Nuclease 703 688.54 0.60 2.49 0.01 46 Hemostasis impairing toxin 55 297.55 0.05 2.42 0.01 46 Hemostasis impairing toxin 55 297.55 0.05 2.42 0.01 47 Thiol protease imbibitor 36 411.06 0.35 2.04 0.03 488 tinhbitor 410.06	19	Carboxypeptidase	116	631.16	0.37	-8.25	0	1	20	carboxypeptidase activity	143	596.81	0.34	-8.54	0	
Scrine esterase	20	Threonine protease	138	246.88	0.18	-7.50	0	$X \setminus X \setminus X$	21	metallopeptidase activity	632	663.90	0.56	-8.44	0	
Receptor 3424 647.92 0.59 -7.09 0 24 Nucleases 120 442.51 0.39 2.55 0.01 45 0.65 0.40 4.50 0.25 0.70 4.43 0.45 0.45 0.45 0.45 0.45 4.45 0	21	Dioxygenase	366	622.32	0.48	-7.39	0	1-XI	22	ATP binding	7585	801.90	0.69	-8.22	0	
Nucleotidyltransferase 600 969.68 0.63 -6.18 0 25 Peroxidase 221 457.61 0.40 -5.50 0 26 Serine protease inhibitor 182 497.66 0.38 -4.92 0 27 Porin 63 318.84 0.21 -4.55 0 28 Dipeptidase 22 522.27 0.23 -4.43 0 29 Integrin 71 1038.25 0.70 -4.29 0 30 Protease inhibitor 284 446.29 0.41 -4.15 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 -4.11 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 -4.11 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 -4.11 0 31 RNA-directed RNA polymerase 22 520.27 0.72 -3.29 0 32 Retinal protein 47 384.06 0.28 -3.37 0 34 dipeptidase activity 285 349.98 0.32 -4.59 0 34 dipeptidase activity 37 778.27 0.43 -4.23 0 35 Myosin 185 1275.20 0.72 -3.29 0.01 36 Roborous 44 3728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0.01 41 Bacteriolytic enzyme 35 434.66 0.31 -2.59 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 48 Hemostasis impairing toxin 55 2975.5 0.35 -2.04 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 48 aminoacyl-tRNA ligase activity 255 659.40 0.67	22	Serine esterase	141	423.09	0.28	-7.21	0		23	dioxygenase activity	419	604.98	0.48	-7.83	0	
25 Peroxidase 221 457.61 0.40 -5.50 0 26 threonine-type endopeptidas 139 247.87 0.19 -6.79 0 26 Serine protease inhibitor 182 497.66 0.38 4.92 0 27 Porin 63 318.84 0.21 4.55 0 28 Dipeptidase 22 522.27 0.23 4.43 0 28 Dipeptidase 22 522.27 0.23 4.43 0 29 Serine-type endopeptidase 218 485.65 0.40 4.99 0 29 Integrin 71 1038.25 0.70 4.29 0 30 Protease inhibitor 284 446.29 0.41 4.15 0 31 Phospholipase A2 activity 93 377.39 0.30 4.93 0 31 Phospholipase Dactivity 37 778.27 0.43 4.87 0 32 Neurotoxin 66 209.62 0.17 -3.80 0 33 Hemagglutinin 23 281.22 0.13 3.33 0 33 Toxin activity 285 349.98 0.32 4.59 0 34 Retinal protein 47 384.06 0.28 -3.37 0 35 Myosin 185 1275.20 0.72 -3.29 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 41 Baceriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.04 0.02 48 Irnolprotease inhibitor 63 411.06 0.35 -2.04 0.03 48 minimal curvity 414 419 619.00 0.62 -2.17 0.02 48 minimal curvity 414 419 619.00 0.62 -2.17 0.02 48 minimal curvity 414 919.00 0.62 -2.17 0.02 48 minimal curvity 414 919.00 0.62 -2.17 0.02 48 minimal curvity 414 619.00 0.62 -2.17 0.02 48 minimal curvity 414 619.00 0.62 -2.17 0.02 48 minimal curvity 415 419.00 0.62 -2.17 0.02 410 minimal curvity 415 410 410 410 410 410 410 410 410 410 410 410 410 410 410 410 410 410 4	23	Receptor	3424	647.92	0.59	-7.09	0	1' \\	24	peroxidase activity	282	414.57	0.34	-7.11	0	
26 Serine protease inhibitor 182 497.66 0.38 4.92 0 27	24	Nucleotidyltransferase	600	969.68	0.63	-6.18	0		25	antioxidant activity	499	344.42	0.36	-6.89	0	
Porin	25	Peroxidase	221	457.61	0.40	-5.50	0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	26	threonine-type endopeptidas	139	247.87	0.19	-6.79	0	
28 Dipeptidase 22 522.27 0.23 -4.43 0 29 Integrin 71 1038.25 0.70 -4.29 0 30 Photographic 284 446.29 0.41 -4.15 0 30 Phospholipase A2 activity 93 377.39 0.30 -4.93 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 -4.11 0 32 Neurotoxin 66 209.62 0.17 -3.80 0 33 Hemagglutinin 23 281.22 0.13 -3.37 0 34 Retinal protein 47 384.06 0.28 -3.37 0 35 Myosin 185 1275.20 0.72 -3.29 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 48 translation elongation gate with protein 19 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 41 0.00 0.56 -2.01 0.02 48 translation elongation fact 10 10 10 10 10 10 10	26	Serine protease inhibitor	182	497.66	0.38	-4.92	0	1 /	27	nucleotidyltransferase acti	892	805.20	0.59	-6.07	0	
29 Integrin 71 1038.25 0.70 4.29 0 30 Protease inhibitor 284 446.29 0.41 4.15 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 4.11 0 32 Neurotoxin 66 209.62 0.17 -3.80 0 33 Hemagglutinin 23 281.22 0.13 -3.37 0 33 Hemagglutinin 23 281.22 0.13 -3.37 0 34 Retinal protein 47 384.06 0.28 -3.37 0 34 Retinal protein 47 384.06 0.28 -3.37 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 443 728.14 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 28 369.37 778.27 0.43 -4.87 0 0.31 -4.87 0 0.32 4.70 0 0.31 -4.53 0.33 toxin activity 28 369.37 0.32 4.70 0 0.32 4.59 0.33 4.59 0.33 4.59 0.32 4.59 0.33 4.59 0.33 4.59 0.32 4.59 0.33 4.59 0.32 4.59 0.33 4.59 0.32 4.59 0.33 4.59 0.33 4.59 0.32 4.59 0.33 4.22 0.33 4.23 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33 4.22 0.33	27	Porin	63	318.84	0.21	-4.55	0	1——	- 28	porin activity	76	369.24	0.22	-5.22	0	
30 Protease inhibitor 284 446.29 0.41 4.15 0 31 RNA-directed RNA polymerase 62 2506.11 0.87 4.11 0 32 Neurotoxin 66 209.62 0.17 -3.80 0 33 Hemagglutinin 23 281.22 0.13 -3.37 0 34 Retinal protein 47 384.06 0.28 -3.37 0 35 Myosin 185 1275.20 0.72 -3.29 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.66 -2.49 0.01 42 Nuclease 703 668.54 0.66 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.04 0.03 48 translatione 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 419 619.06 0.62 -2.17 0.02 48 signal transducer activity 419 619.06 0.62 -2.17 0.02 48 signal transducer activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 40 40 40 40 40 40	28	Dipeptidase	22	522.27	0.23	-4.43	0		29	serine-type endopeptidase i	218	485.65	0.40	-4.99	0	
31 RNA-directed RNA polymerase 62 2506.11 0.87 4.11 0 32 Neurotoxin 66 209.62 0.17 -3.80 0 33 toxin activity 285 349.98 0.32 -4.70 0 0 33 Hemagglutinin 23 281.22 0.13 -3.37 0 34 Retinal protein 47 384.06 0.28 -3.37 0 35 Myosin 185 1275.20 0.72 -3.29 0 35 Myosin 185 1275.20 0.72 -3.29 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 0.14 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 285 349.98 0.32 -4.70 0 0.32 -4.70 0 0.32 -4.70 0 0.32 -4.70 0 0.32 -4.59 0.01 0.32 -4.59 0.01 0.33 0.34 -4.23 0 0.34 -4.23 0 0.34 -4.23 0 0.34 -4.23 0 0.35 0.30 -3.90 0.30 0.30 0.39 0	29	Integrin	71	1038.25	0.70	-4.29	0	1 🗸	30	phospholipase A2 activity	93	377.39	0.30	-4.93	0	
Neurotoxin Color	30	Protease inhibitor	284	446.29	0.41	-4.15	0	1 /	31	phospholipase D activity	37	778.27	0.43	-4.87	0	
33 Hemagglutinin 23 281.22 0.13 -3.37 0 34 dipeptidase activity 41 557.73 0.34 -4.23 0 34 Retinal protein 47 384.06 0.28 -3.37 0 35 Myosin 185 1275.20 0.72 -3.29 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 39 Endonuclease 443 728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 40 40 40 40 40 40	31	RNA-directed RNA polymerase	62	2506.11	0.87	-4.11	0	$1 \setminus 1 \setminus 1$	32	prenyltransferase activity	128	369.37	0.32	-4.70	0	
Retinal protein 47 384.06 0.28 -3.37 0 35 Myosin 185 1275.20 0.72 -3.29 0 36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 39 Endonuclease 443 728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 43 Ion channel impairing toxin 60 74.92 0.15 -2.47 0 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	32	Neurotoxin	66	209.62	0.17	-3.80	0	1-\\ \ 💉	33	toxin activity	285	349.98	0.32	-4.59	0	
35 Myosin 185 1275.20 0.72 -3.29 0 36 Phospholipase A2 activity (70 365.39 0.30 -3.90 0 37 endonuclease activity 773 658.33 0.59 -3.85 0 38 Elongation factor 106 467.68 0.48 -2.59 0.01 39 Endonuclease 443 728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	33	Hemagglutinin	23	281.22	0.13	-3.37	0	1 W //	34	dipeptidase activity	41	557.73	0.34	-4.23	0	
36 Photoreceptor protein 77 540.68 0.47 -3.02 0.01 37 endonuclease activity 773 658.33 0.59 -3.85 0 38 Elongation factor 106 467.68 0.48 -2.59 0.01 39 Endonuclease 443 728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04	34	Retinal protein	47	384.06	0.28	-3.37	0	1 /\	35	metalloendopeptidase activity	369	711.73	0.63	-4.22	0	
37 Prenyltransferase 39 376.21 0.31 -2.59 0.01 38 Elongation factor 106 467.68 0.48 -2.59 0.01 39 Endonuclease 443 728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04	35	Myosin	185	1275.20	0.72	-3.29	0	$1 \times X \times X$	36	phospholipase A2 activity (70	365.39	0.30	-3.90	0	
Second	36	Photoreceptor protein	77	540.68	0.47	-3.02	0.01		37	endonuclease activity	773	658.33	0.59	-3.85	0	
Endonuclease 443 728.14 0.60 -2.59 0.01 40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 43 Ion channel impairing toxin 60 74.92 0.15 -2.47 0 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 0.01 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04 1.04 1.05 1.0	37	Prenyltransferase	39	376.21	0.31	-2.59	0.01		38	antigen binding	277	345.87	0.38	-3.68	0	
40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 43 Ion channel impairing toxin 60 74.92 0.15 -2.47 0 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	38	Elongation factor	106	467.68	0.48	-2.59	0.01	1 / 	39	translation elongation fact	116	464.12	0.46	-3.35	0	
40 Toxin 214 412.51 0.39 -2.56 0 41 Bacteriolytic enzyme 35 434.66 0.31 -2.53 0.01 42 Nuclease 703 668.54 0.60 -2.49 0.01 43 Ion channel impairing toxin 60 74.92 0.15 -2.47 0 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	39	Endonuclease	443	728.14	0.60	-2.59	0.01	1//\/\\\ ,	40	nuclease activity	1124	659.17	0.61	-3.20	0	
42 Nuclease 703 668.54 0.60 -2.49 0.01 43 RNA-directed 5'-3' RNA poly 75 2341.31 0.87 -2.57 0.02 43 Ion channel impairing toxin 60 74.92 0.15 -2.47 0 44 tRNA binding 247 566.35 0.57 -2.39 0.01 44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 peptidase inhibitor activity 446 493.46 0.50 -2.38 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 photoreceptor activity 91 574.22 0.54 -2.30 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 glucan endo-1,3-beta-D-gluc 28 522.18 0.43 -2.29 0.02 48 signal transducer activity 4149 619.06 0.62 -2.17 0.02 48	40	Toxin	214	412.51	0.39	-2.56	0			G-protein coupled photorece	44	390.23	0.30	-2.99	0	
43 Ion channel impairing toxin 60 74.92 0.15 -2.47 0 44 tRNA binding 247 566.35 0.57 -2.39 0.01 45 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	41	Bacteriolytic enzyme	35	434.66	0.31	-2.53	0.01		42	chloride channel activity	195	622.49	0.62	-2.67	0.01	
44 Voltage-gated sodium channe 22 79.55 0.05 -2.42 0.01 45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	42	Nuclease	703	668.54	0.60	-2.49	0.01	/ / \ \\	43	RNA-directed 5'-3' RNA poly	75	2341.31	0.87	-2.57	0.02	
45 Aspartyl protease 120 942.30 0.64 -2.39 0.01 46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03	43	Ion channel impairing toxin	60	74.92	0.15	-2.47	0] / \[44	tRNA binding	247	566.35	0.57	-2.39	0.01	
46 Hemostasis impairing toxin 55 297.55 0.35 -2.10 0.02 47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04	44	Voltage-gated sodium channe	22	79.55	0.05	-2.42	0.01] <i>;</i>	45	peptidase inhibitor activity	446	493.46	0.50	-2.38	0.01	
47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 signal transducer activity 4149 619.06 0.62 -2.17 0.02 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04	45	Aspartyl protease	120	942.30	0.64	-2.39	0.01	1,'	46	photoreceptor activity	91	574.22	0.54	-2.30	0.01	
47 Thiol protease inhibitor 63 411.06 0.35 -2.04 0.03 48 tRNA-binding 119 575.46 0.56 -2.01 0.03 49 aminoacyl-tRNA ligase activity 255 659.40 0.67 -1.93 0.04	46	Hemostasis impairing toxin	55	297.55	0.35	-2.10	0.02	Ĭ /	47	glucan endo-1,3-beta-D-gluc	28	522.18	0.43	-2.29	0.02	
	47	Thiol protease inhibitor	63	411.06	0.35	-2.04	0.03	1/	48	signal transducer activity	4149	619.06	0.62	-2.17	0.02	
50 cysteine-type endopeptidase 262 953.41 0.64 -1.65 0.05	48	tRNA-binding	119	575.46	0.56	-2.01	0.03	1/	49	aminoacyl-tRNA ligase activity	255	659.40	0.67	-1.93	0.04	
		·				•	•	J	50	cysteine-type endopeptidase	262	953.41	0.64	-1.65	0.05	