

1	SWS-Facetopsins	361	XIMLPASQKAVACIDPQVYVAISHHPBYRSELQKBLPW
2	UV-Facetopsins	130	ESMLPALFCKIAACIDPELYAITHPBFERKELEKLEER
3	LWS-Facetopsins	757	XIIWGFQFAKANAYYNPIVYGISHPKYRAALKKEP
4	Onychopsins	7	VSQLPAYFAKTAAYYNPIVYATSHBPBYRQALBKSEF
5	Parvopsins	12	QVYPVYEAKSSALWNPLVYALSHKKFKAALKKKK
6	Melanopsins X	164	SKAVPAYIAKASAIYNPFIIYAITHKKYRRTLAEKYPCL
7	Melanopsins M	290	MNSYPAYIAKASAIHNPFIYAITHPKYRRAAJAKYLPCL
8	Melanopsins L	4	LQSIIPAYFAKSSAVYNPIVYAITHPKFRAAVKKHIPCL
9	Lancopsins	18	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
10	Scallopsins	113	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
11	Arthropopsins	74	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
12	Dumopsins	20	XSYPLLLAKISTYENPFIIYVAISHPKFRKKKKKKKK
13	Stranopsins A	27	XATLPALLAKSSAYYNPLIYYAINKQFRFAEYKLPCL
14	Stranopsins B	23	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
15	Stranopsins C	7	QVLPAAQFAKSSAYYNPLIYYGLKKKKKKKKKK
16	Cnidopsins	133	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
17	Parietopsins	57	VATMPMYFAKTSPYYNPFIYFELSNKQFRDQALEXLSCG
18	Parapinopsins	107	VATYPMYLAKSSTVYNPLIYYIFMNRQFRQYAYPELLCG
19	Va-Opsins	122	LAAIPAFFSKTATVYNPLIYVFMNKQFRKCLIQMFQ
20	Cionopsins	2	LGAXPFFAKTATVYNPLIYIGLNRQFRDQVYRMYFRG
21	LWS-Okopsins	124	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
22	RHO1-Okopsins	249	FMTIPAFFAKSSALYNPLIYIFMNRQFRNCMITTLCCG
23	RHO2-Okopsins	120	QVLPAAQFAKSSALYNPLIYVLMNKQFRNCMITTLCCG
24	SWS2-Okopsins	150	LATIPSESKASTVYNPYIYYELMKNKQFRSCMMKMLGMG
25	SWS1-Okopsins	142	LVTIPAFFSKSSACVYNPLIYVFMNKQFRSACIMEVVF
26	Pinopsins	60	LASLPSEYFSKTATVYNPLIYVFMNKQFRSCLLMYCCG
27	TMT3-Opsins	99	ASYPSSLAKFSTVYNPLIYVFMNRQFRRCFYAEYKCF
28	TMT2-Opsins	113	ASYPSSLAKSSTVINPFIYILMNKQFVBCFLILEHCK
29	TMT1-Opsins	156	ASIPSSLAKFSTVINPFIYVFMNRQFRRCFYAEYKCF
30	TMTL-Opsins	17	AAYPSSLAKSSTVYNPLIYVAMNNRQFRBXYFLALLSCB
31	Encephalopsin	123	VATIPSECFAKSSTATYNPFIYIFMNRKFRRCLLQLLCE
32	Livopsins	12	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
33	Annopsins	25	XAMLPAMFAKSSAYYNPFIIYVGMNKQFRKAFVFKLPFA
34	Pteropsins	208	XAYLPALLAKSSAYYNPFIIYVGMNRQFRFAWKKEFKE
35	Nessopsins	82	FAELPELMAKASAYYNPLIYVAMNNRQFRBXYFLALLSCB
36	RGR-opsins	162	LRMYPAYLAKTPTPTNAGFYALGNEFYRGGIWOELTGO
37	Nemopsins	5	YYYYPVLISRSPLLNPFHYIWCNPFVPINEETAKB
38	Peropsins	125	MAIIAPLFAKSSSTFYNPFIYVIANKKFRBAJCAMRCQ
39	Astropsins	5	LXLIAPLAAKSSMVLNPLMEIAMISKFRITXXAMMKYQ
40	Retinochromes	33	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
41	Gluopsins	40	LAFLAPIAEAEATSYPMFYLAEPERBYRAALLGRMBKE
42	Varropsins	6	LMTAPNICAKASGALNPFIIYIFSNBNMRASLAPILRAK
43	Go-opsins	52	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK
44	Tremopsins (Opn6)	155	TSILELFAKSSAFYNPFIIYFGMSSKFRKDYAXLLPCA
45	Kiropsins	25	LYLAPLFAKSSAYYNPLIYYFELSNKQFRKDYAXLLPCA
46	Qoshopsins (Opn7/Op4)	204	AFAVQAYFAKSSSTFYNPFIYLLKPNFRKELSRBDQAL
47	Fiskopsins (Opn9/Op45)	145	VILIPAMFAKSHCMINPFIIYQIMNBEFDVYXMYEGG
48	Euthropsins (Opn5/Op8)	161	YSVYPTLLAKSSAMYNPLIYYQVIDCKEACSKKSGKAL
49	Fibopsins (Opn8/Op66)	166	VSLLPALLFAKSSSTXYNPFIYYIFAKLEKKEVKA
50	Outgroup	1150	QVLPAAQFAKSSALWNPLVYALSHKKFKAALKKKK

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