

1	Nessopsins	84	EAEIPELMAKASVYYNPLIYVIMNBEFRATLLEKLY
2	LWS-Facetopsins	835	ETIWGSLFAKANAYYNPLIYYAISHPKYRAALMKEE
3	Onychopsins	7	VSQLPAYFAKIAAYYNPLIYYATSHPRYRBALEKKE
4	UV-Facetopsins	133	ESMIPALFCKIAACIDPELYAITHPRFEREELKKEE
5	SWS-Facetopsins	385	XIMIPASQCKEIVACIDPVYVAISHHPBYRSELOKBL
6	Scallopsins	118	SEELPMVFAKASAMYNPLIYYAYSHPKFRFALEKKEE
7	Melanopsins X	172	SKAVPAYIAKASAIYNPFIYAIITHPKYRBTLEKRY
8	Melanopsins M	307	MNSVPAYIAKASAIHNPFIYAIITHPKYRFAIAKRY
9	Melanopsins L	4	LQSIPAYFAKSSAVYNPLIYYAIITHPKFRAAVKKHI
10	Arthropopsins	78	ATALPAFLFAKIAAYVPRPLIYYGESHPRFRASYROYL
11	Lancopsins	18	QVMAAALFAKESVILNPIMYALSTPFRKAKESSE
12	Parvopsins	13	QYVPMYFAKSSAILWNPLIYYAISHPKFKKALPRRE
13	Dumopsins	14	XSMIPALFAKISTIYNPFIYVAISHHPRFRAYKKEE
14	RGR-opsins	175	LRMYPAYLAKITPTINAFYALGNENYRGGIWOELTG
15	Nemopsins	8	YYVYPMLISBYSFLLNPFIYVWLNPELMPINEELAKB
16	Gluopsins	42	LALLAPLAEAEASTYPMVLSYLAEDPRYRAALLGRMRK
17	Retinochromes	34	QQLPELFAKESGALPLPAYEYTERPRFAKESSE
18	Peropsins	133	MAIIAPLFAKSSSTFYNPCLYVIANKKFRBRAJLAMURC
19	Astropsins	7	LYLAPLAAKISLMVLNPFIYVFMKKFRLEYQAMMTQC
20	Varropsins	27	LTLIPLEFAKASTXENPFIYVELFNPRFRSILKATLEC
21	Tremopsins (Opn6)	159	TSICLRLFAKSASFYNPLIYEGMSSKFRKDYAXLLPC
22	Fibopsins (Opn8/Opn7)	175	VSLPLPLFAKSSSTXYNPFIYYIFKLEFRBEVKSLML
23	Euthropsins (Opn5)	107	YSVYPTLLAKSAMYNPLIYYQVUDSKELACSKKESSEKA
24	Fiskopsins (Opn9/Opn4)	155	VILIPAMFAKSHCMINPFIYQIMNBEFDVYVMVEGB
25	Qoshopsins (Opn7)	200	AFALAPAYFAKSSSTFYNPFIYVLLCKPNFALBQVFCB
26	Kiropsins	29	LYXQPLFAKISTIYNPFIYYEFMKNKKFRRLIMMLM
27	Go-opsins	55	QTLPTIMEFAKSSCMNPLIYYALFNKKFRFQCKMLGLR
28	Stranopsins B	36	ESTLPAFLFAKSSITWNPFIYELFNKKFRKALMLML
29	Stranopsins A	28	XATLPAFLFAKSSSYNPLIYYAINKQFRFAEXFSLPC
30	Cnidopsins	133	QATLPAFLFAKISSITWNPFIYELFNKKFRRLIMMLM
31	Stranopsins C	10	AAIIPAYFAKSSSYNPLIYYGLKNKKFRKALMLML
32	Annopsins	27	XAMLPAMFAKSSSYNPLIYYVAMNKKQFRBAFVVKI
33	Livopsins	13	QATLPAFLFAKISTIYNPLIYYELLNKKQFRPALISL
34	Pteropsins	222	KAYIPALFAKSSISYNPFIYYGGLNTQFRFAWKKEE
35	Encephalopsin	126	VAILPPLFAKSSSTAYNPFIYVFMNRKFRRCLLQLL
36	TMT1-Opsins	170	ASTIPSYLAKISTVINPFIYVFMNKKQFYRCFBALL
37	TMT3-Opsins	102	ASYYPSTLAKISTVINPFIYVFMNNOFYRCFYAEI
38	TMT2-Opsins	118	ASYYPSTLAKSSSTVINPFIYILMNKKQFYBCLELLE
39	TMTL-Opsins	17	AAIYPPLMAKSSSTAYNPFIYVAMNNOFRBYFLALL
40	Parietopsins	61	VATMPMYFAKTSPYYNPLIYFELSNKKQFRDQALEYL
41	Parapinopsins	111	QATYPMYLAKSSSTYYNPLIYVFMNKKQFRBYAYPEL
42	Cionopsins	2	LGAXPQFFAKTATIIYNPLIYVGLNKKQFRDQVYRMY
43	Va-Opsins	125	LAAIPAFFSKTATVYNPLIYVFMNKKQFRKCLIQMF
44	Pinopsins	62	LASLPSTYFSKTATVYNPLIYVFMNKKQFSSCLLMY
45	LWS-Okopsins	138	AAALPAYFAKSATIYNPLIYVFMNRQFRNCIMOLF
46	SWS1-Okopsins	154	LVTIPAFFSKSSACVYNPLIYVFMNKKQFBACIMEMV
47	RHO1-Okopsins	276	FMTIPAFFAKSSALYNPLIYVLMNKKQFRNCMLTTL
48	RHO2-Okopsins	126	EMAYPAFFSKSSALYNPLIYVLMNKKQFRNCMLTTL
49	SWS2-Okopsins	162	LATIPSCFSKASTVYNPLIYVFLMNKKQFRSCMMKML
50	Outgroup	1235	SEELPMVFAKASAMYNPLIYYAYSHPKFRFALEKKEE

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