

1	Nessopsins	84	EAELPMLAKASVYNPLIYVAMNBEFRATLLEBLLSE
2	Pteropsins	211	RAYLPALFAKSSICYNPFIIYAGLNTQFRAAWKKLEST
3	Annopsins	25	XAMLPAMFAKSSFCYNPFIIYVGMNKKQFBAFAVBEKLLBG
4	TMT1-Opsins	171	ASTLPSTLAKSSTVINPFIYVIFMNNKQFVRCEBALLECF
5	TMT2-Opsins	136	ASVYPSTLAKSSTVINPFIYVILMNKKQFVBCFLJLFHCF
6	TMT3-Opsins	141	ASVYPSTLAKSSTVINPFIYVILFNNQFVRCEVAMJLKKCF
7	TMTL-Opsins	16	AAYYPMLMAKSSSTAYNPFIYVAMNNOQFRBVFHALSCCF
8	Parapinopsins	136	VATYPMYLAKESSSTVYNPFIYVIFMNNKQFRBYAYPLCGBN
9	Pinopsins	68	LASLPSTYFSKTATVYNPFIYVIFMNNKQFBSCLLMCGBN
10	SWS1-Okopsins	147	LVTIPAFFSKSSSCVYNPFIYVIFMNNKQFRACIMEMSGKE
11	RHO2-Okopsins	148	MAIPAFFSKSSALYNPFIYVFLMNKKQFRNCMLITCGMS
12	RHO1-Okopsins	221	FMTIPAFFFAKSSALYNPFIYVIFMNNKQFRNCMLITCGKN
13	SWS2-Okopsins	151	LATIPSCFSKASTIVYNPFIYVFLMNKKQFRSCMMKMMGE
14	LWS-Okopsins	127	AAALPAYFAKSAITVYNPFIYVIFMNNRQFRNCIMQLFGKK
15	Cionopsins	2	TGAVPFAFFAKTATVYNPFIYVIFMNNKQFRDGVIMBGRN
16	Va-Opsins	143	LAAIPAFFSKTAAVYNPFIYVIFMNNKQFRKCLIQMFSS
17	Parietopsins	65	VATMPMYFAKTSPVYNPFIYVIFMNNKQFRPSALEXCGRY
18	Encephalopsin	130	VATIPAFFFAKSSSTAYNPFIYVIFMNNKQFRRCLLQLLCER
19	Livopsins	12	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRPALISLCCG
20	Cnidopsins	118	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
21	Stranopsins C	4	AITIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
22	Stranopsins A	30	AITIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
23	Stranopsins B	21	AITIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
24	Arthropopsins	65	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
25	UV-Facetopsins	133	ISMIPALFCKIAACIDPFIYVIFMNNKQFRRCLLQLLCER
26	SWS-Facetopsins	337	XTMIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
27	LWS-Facetopsins	639	XTMIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
28	Onychopsins	6	VSQIPAYFAKIAAVYNPFIYVIFMNNKQFRRCLLQLLCER
29	Melanopsins X	184	SKAVPAYIAKASAIYNPFIYVIFMNNKQFRRCLLQLLCER
30	Melanopsins L	4	LQSIIPAYFAKSSAVYNPFIYVIFMNNKQFRRCLLQLLCER
31	Melanopsins M	146	MNSYPAYIAKASAIHNPFIYVIFMNNKQFRRCLLQLLCER
32	Scallopsins	111	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
33	Parvopsins	11	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
34	Dumopsins	10	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
35	Lancopsins	29	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
36	Go-opsins	49	QATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
37	Tremopsins (Opn6)	166	TSITIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
38	Qoshopsins (Opn7)	200	AFATIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
39	Fiskopsins (Opn9/Opn8)	145	VILIPAMFAKSHCMINPFIYVIFMNNKQFRRCLLQLLCER
40	Euthropsins (Opn5)	106	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
41	Fibopsins (Opn8/Opn5)	105	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
42	Kiropsins	24	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
43	Varropsins	23	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
44	Peropsins	126	MAITIPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
45	Astropsins	4	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
46	RGR-opsins	178	LBMYPAFFFAKSSCTVYNPFIYVIFMNNKQFRRCLLQLLCER
47	Nemopsins	3	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
48	Gluopsins	37	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
49	Retinochromes	31	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER
50	Outgroup	1203	YSVYPTLLAKSAMYNPFIYVIFMNNKQFRRCLLQLLCER