

1	Arthropopsins	80	QIAPAEFAKTAAYYRPLVYGFSPHPRNSYBQYLW
2	LWS-Facetopsins	1082	TIWGLFAKANAYYNPLVYGI SHPKYRAALSKKEP
3	Onychopsins	21	XZRLPAIFAKTAAYYNPLVYALSHSRYRQALBKRLP
4	SWS-Facetopsins	423	XIMLPASACKEVACIDPQYYAISHHPRYRDELQKRLP
5	UV-Facetopsins	153	ESMLPALFCKIAACIDPQLVYALSHHPREFEELKKLEH
6	Scallopsins	137	AEELPLMLFAKASAYYNPLVYAYSHHPKFRFALSKKEP
7	Melanopsins M	356	MNSYPAYIAKASAIHNPLIYAITHPKYRFAIAJAKYLP
8	Melanopsins X	183	SKAVPAYIAKASAIYNPFIYAITHEKYRRTLAEKYP
9	Melanopsins L	4	LQSIPAVFAKSSAVYNPIVYAITHPKFRAAAVKKHIP
10	Parvopsins	24	QYLPVYFAKSSALWNPLVYALSHSRFFKALRRERL
11	Dumopsins	18	XAMPLLLAKLSTLYNPFIYALSHHPREFEALSKKEP
12	Lancopsins	24	XYMPLAALAKLSSTLYNPFIYQLSTPRERKQLEKRRK
13	RHO1-Okopsins	389	FMTLPAFFAKSSALYNPFIYILEMNKQFRNCMLTTLC
14	RHO2-Okopsins	102	IMALPAFFSKSSALENPLIYVLMNKQFRNCMLITL
15	LWS-Okopsins	170	AAALPAYFAKSATIYNPLIYVFMNRQFRNCIMQLFG
16	SWS2-Okopsins	34	LASLPVFSKASTVYNPFIYVFMNKQFRSCMLKLYE
17	SWS1-Okopsins	181	LVTIPAFFSKSSCVYNPFIYVFMNKQFRACIMEVFE
18	Pinopsins	71	LASLPVFSKTATVYNPFIYVFMNKQFRSCLLKMYC
19	Cionopsins	2	LGAXPFFAKTAGIYNPLIYIGLNRQFRDEVYRMYFRG
20	Va-Opsins	130	LAAIPAFFSKTATVYNPLIYVFMNKQFRKCLIQMFRC
21	Parapinopsins	117	VATYPMYLAKSSTVYNPFIYILEMNKQFRBYAYPELLOG
22	Parietopsins	65	VATMPMYFAKTSPVYNPFIYFELSNKQFRDCALEYLSCG
23	TMT1-Opsins	204	ASILPSYLAKESTVINPFIYILEMNKQFVRCFBALLECH
24	TMT2-Opsins	128	ASYYPSTLAKSSTVINPFIYILMNKQFYBCFLILEHCK
25	TMT3-Opsins	117	ASYYPSTLAKESTVINPFIYILENNQFVRCFYAEYKCH
26	TMTL-Opsins	18	AAAYYPSTLAKSSTVYNPFIYVAMNNQFRBYFLALLSCG
27	Encephalopsin	149	VAILPPLFAKSSTAYNPFIYILEMFRKFRRCOLLQLLCH
28	Pteropsins	267	ZAYIPALEFAKFSISYNPFIYGLNLTQFRFAWKEE
29	Livopsins	19	AATLPALFAKASTLYNPFIYFLLNKQFEKPALEBLKCCG
30	Annopsins	29	XAMPLPMFAKESSEYNPFIYVGMNKQFRBAAFVEKILBG
31	Nessopsins	96	FAELPELMAKASVLYNPFIYVIMNRRFRITLRRKLYEE
32	Cnidopsins	143	QELTEALFAKISALYNPLIYVFMKKFRFELLMKRRLL
33	Stranopsins C	16	AAALPAYFAKSSYLYNPFIYGLKHFRRFELRRKRRLL
34	Stranopsins A	59	AATLPALFAKSSSYWNPLIYVAINNKQFRFAELRRKRRLL
35	Stranopsins B	31	LKMLPPLFAKASVLYNPFIYVIMNRRFRITLRRKLYEE
36	Kiropsins	57	IXLPLPLFAKSSSTLYNPFIYVFMNKRFRFELLMKRRLL
37	Qoshopsins (Opn7/Opn1)	701	AFALPAAYFAKSSTLYNPFIYVLLCKPNFRKELRRKRRLL
38	Fibopsins (Opn8/Opn3)	107	XZLLPLMLFAKSSTLYNPFIYVFMKKFRFELLMKRRLL
39	Fiskopsins (Opn9/Opn5)	505	VILIPAMFAKSHCMINPFIYQIMNBEFRFDVYRMYEGE
40	Euthropsins (Opn5/Opn1)	106	YSVYPTLLAKSAMYNPFIYQVIDEKEACSKSSCKKAK
41	Tremopsins (Opn6/Opn1)	168	TSICPLPLFAKSASFYNPFIYFGMSSSKFRKDYAXLLPCA
42	RGR-opsins	213	LBMYPAYLAKITPTINAFIYALGNEFYRGGIWRQELTGG
43	Nemopsins	14	VYYPVITSRKSELLNPFIYVWCNPLIPLINEELAK
44	Retinochromes	42	AEELPELFAKASALPLPAYIYXSRFRFELLMKRRLL
45	Astropsins	14	LAALPAPLFAKISVLYNPFIYVXELKKFRFEXAAMMLCCB
46	Peropsins	155	MAIIAPPLFAKSSTFYNPFIYVIANKKFRBAJLAMVRCQ
47	Varropsins	30	LLPLPLFAKASIXENPFIYFELSNRRFRASJLALTECH
48	Gluopsins	52	LAFLAPLFAEAASTPYFYVLCQDERYRAALLGRMB
49	Go-opsins	65	AYLPITMEAKSSCMNPLIYCHFNRRFRFAELRRKRRLL
50	Outgroup	535	EEELPELFAKASALYNPLIYVFMNRRFRITLRRKLYEE