

Figure S1: The sequences (43 Blast entries shown) used to generate the multiple sequence alignment with bovine rhodopsin.

sp	P28682	OPSB_CHICK	Blue-sensitive opsin (Blue cone photorecept...	357	2e-98
sp	P51472	OPSB_ASTFA	BLUE-SENSITIVE OPSIN (BLUE CONE PHOTORECEPT...	347	2e-95
sp	P32310	OPSB_CARAU	Blue-sensitive opsin (Blue cone photorecept...	337	2e-92
sp	P87365	OPSB_ORYLA	BLUE-SENSITIVE OPSIN (BLUE CONE PHOTORECEPT...	330	2e-90
sp	Q9W6A8	OPSB_BRARE	Blue-sensitive opsin (Blue cone photorecept...	324	2e-88
sp	P51473	OPSV_XENLA	Violet-sensitive opsin (Violet cone photore...	307	2e-83
sp	P51475	OPSP_CHICK	Pinopsin (Pineal opsin) (P-opsin) (Pineal g...	302	6e-82
sp	P28684	OPSV_CHICK	Violet-sensitive opsin (Violet cone photore...	300	2e-81
sp	P51476	OPSP_COLLI	PINEAL OPSIN (P-OPSIN) (PINEAL GLAND-SPECIF...	295	1e-79
sp	O13092	OPSB_SAIBB	Blue-sensitive opsin (Blue cone photorecept...	290	3e-78
sp	P51491	OPSB_MOUSE	Blue-sensitive opsin (Blue cone photorecept...	290	4e-78
sp	Q90309	OPSU_CARAU	ULTRAVIOLET-SENSITIVE OPSIN (ULTRAVIOLET CO...	287	2e-77
sp	P03999	OPSB_HUMAN	Blue-sensitive opsin (Blue cone photorecept...	285	1e-76
sp	Q9W6A9	OPSU_BRARE	Ultraviolet-sensitive opsin (Ultraviolet co...	283	3e-76
sp	Q63652	OPSB_RAT	Blue-sensitive opsin (Blue cone photoreceptor...	283	5e-76
sp	P51490	OPSB_BOVIN	Blue-sensitive opsin (Blue cone photorecept...	277	3e-74
sp	P87368	OPSV_ORYLA	PUTATIVE VIOLET-SENSITIVE OPSIN (VIOLET CON...	276	4e-74
sp	O42490	OPSP_PETMA	PINEAL OPSIN (P-OPSIN) (PINEAL GLAND-SPECIF...	273	3e-73
sp	P04001	OPSG_HUMAN	Green-sensitive opsin (Green cone photorece...	269	5e-72
sp	Q95170	OPSR_CAPHI	Red-sensitive opsin (Red cone photoreceptor...	268	2e-71
sp	O18913	OPSR_FELCA	Red-sensitive opsin (Red cone photoreceptor...	267	3e-71
sp	P35358	OPSG_GECGE	Green-sensitive opsin P521 (Green photorece...	266	4e-71
sp	P87367	OPSR_ORYLA	RED-SENSITIVE OPSIN (RED CONE PHOTORECEPTOR...	266	6e-71
sp	O18910	OPSG_RABIT	Green-sensitive opsin (Green cone photorece...	265	8e-71
sp	P04000	OPSR_HUMAN	Red-sensitive opsin (Red cone photoreceptor...	265	1e-70
sp	O35476	OPSG_RAT	Green-sensitive opsin (Green cone photorecept...	264	2e-70
sp	P34989	OPSL_CALJA	Opsin, longwave 563 nm	263	3e-70
sp	Q9W6A7	OPSR_BRARE	Red-sensitive opsin (Red cone photoreceptor...	263	4e-70
sp	O35478	OPSG_SCICA	Green-sensitive opsin (Green cone photorece...	262	8e-70
sp	Q9R024	OPSG_CAVPO	Green-sensitive opsin (Green cone photorece...	262	8e-70
sp	O35599	OPSG_MOUSE	Green-sensitive opsin (Green cone photorece...	261	1e-69
sp	P32313	OPSR_CARAU	Red-sensitive opsin (Red cone photoreceptor...	259	7e-69
sp	P22332	OPSR_ASTFA	RED-SENSITIVE OPSIN (RED CONE PHOTORECEPTOR...	258	9e-69
sp	P41592	OPSR_ANOCA	Red-sensitive opsin (Red cone photoreceptor...	258	2e-68
sp	O12948	OPSR_XENLA	RED-SENSITIVE OPSIN (RED CONE PHOTORECEPTOR...	257	2e-68
sp	P22329	OPSR_CHICK	Red-sensitive opsin (Red cone photoreceptor...	253	3e-67
sp	P22330	OPSG_ASTFA	Green-sensitive opsin 1 (Green cone photore...	246	6e-65
sp	P22331	OPSH_ASTFA	Green-sensitive opsin 2 (Green cone photore...	244	1e-64
sp	O42266	OPSP ICTPU	PARAPINOPSIN	229	6e-60
sp	O18912	OPSR_HORSE	Red-sensitive opsin (Red cone photoreceptor...	222	7e-58
sp	O18911	OPSG_ODOVI	Green-sensitive opsin (Green cone photorece...	222	7e-58
sp	O18914	OPSR_CANFA	Red-sensitive opsin (Red cone photoreceptor...	218	1e-56
sp	O13018	OPSO_SALSA	Vertebrate ancient opsin	218	2e-56