

S1 Figure. *Drosophila* Rhodopsin-like GPCRs with BBS-like sequences in ICL2 following the conserved P (capitalized)

No other Rhodopsin-like GPCRs had a BBS-like sequence in either *D. melanogaster* or *D. virilis*

AstA R1	
M(180)	<u>drflavvh</u> Pv <i>tsmslr</i> ternat
V(200)	<u>drflavvh</u> Pv <i>tsmslr</i> ternat
CCKL R 17D1	
M(272)	<u>eryyaich</u> Plr <i>srtwqt</i> inh
V(136)	<u>eryyaich</u> Plr <i>srtwqt</i> inh
CCKL R 17D3	
M(208)	eryyaich Plr <i>srs</i> wqt ish
V(212)	eryyaich Plr <i>srs</i> wqt is
PK2 R1	
M(205)	eryiaich P frqh <i>tmskl</i> srai
V(208)	eryiaich P frqh <i>tmskl</i> srai
PK2 R2	
M(164)	eryiaich P frqh <i>tmskl</i> srav
V(171)	eryiaich P frqh <i>tmskl</i> srai