

**S2. Figure.**

***Drosophila* Rhodopsin-like GPCRs do not contain a conserved P  
6 AAs past the DRY sequence of ICL2**

Asterisk marks the +6 position

SP R has one (bold and capitalized) but it is 7 AAs past the DRY sequence

**LGR1**

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<b>M(593)</b>	<u>er</u> wlaitqamylnhriklrpaa
<b>V(575)</b>	<u>er</u> wfaithamylnkritlrqaa

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**Moody PC**

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<b>M(133)</b>	<u>nry</u> vmithhglyariykrh
<b>V(142)</b>	<u>nry</u> vmithhgcyariykrh

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**Rickets**

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<b>M(848)</b>	<u>er</u> nyaithaihlkrlslkqag
<b>V(889)</b>	<u>er</u> nyaithaihlkrlslrqag

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**SP R**

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<b>M(192)</b>	<u>qry</u> iyvcha <b>P</b> martwctmprvrr
<b>V(256)</b>	<u>qry</u> iyvcha <b>P</b> martwctmprvr

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