

**Table S1.** Sequences of C-terminal tail peptides used for fluorescence polarization and surface plasmon resonance experiments.

<b>Protein</b>	<b>Species</b>	<b>Family</b>	<b>C-tail sequence</b>	<b>Class</b>
<b>Reference proteins</b>				
CRIPT	Human	CRIPT	LDTKNYKQTSV	I
GluN2B	Human	Glutamate gated ion channel	YEKLSSIESDV	I
KIF1B $\alpha$	Human	Kinesin-like	NLKAGRETTV	I
<b>G protein-coupled receptors</b>				
5-HTR <sub>2A</sub>	Human	5-hydroxytryptamine receptors	DGVNEKVSCV	I
5-HTR <sub>2C</sub>	Human	5-hydroxytryptamine receptors	SVVSERISSV	I
5-HTR <sub>4(a)</sub>	Human	5-hydroxytryptamine receptors	NDPESLESCF	I
A <sub>2B</sub>	Human	Adenosine receptors	GVQPALGVGL	II
$\beta$ <sub>1</sub> AR	Human	Adrenergic receptors	RPGFASESKV	I
$\beta$ <sub>2</sub> AR	Human	Adrenergic receptors	RNCSTNDSL	I
CCR5	Human	Chemokine receptors	TGEQEISVGL	II
CCR5	Mouse	Chemokine receptors	TGEHEVSTGL	I
CXCR1	Human	Chemokine receptors	SSSVNVSSNL	I
CXCR2	Human	Chemokine receptors	SSSGHTSTTL	I
CXCR3	Human	Chemokine receptors	ETSEASYSGL	I
CXCR4	Human	Chemokine receptors	ESESSSFHSS	
CXCR5	Human	Chemokine receptors	SENATSLTTF	I
BAI1	Human	Class B orphans	QDIIDLQTEV	I
Ghrelin	Human	Ghrelin receptor	RAWTESSINT	
LPA <sub>2</sub>	Human	Lysophospholipid receptors	GHPLMDSTL	I
mGlu <sub>1(a)</sub>	Human	Metabotropic glutamate receptors	RDYKQSSSTL	I
mGlu <sub>2</sub>	Human	Metabotropic glutamate receptors	EVVDSTTSSL	I
mGlu <sub>5(b)</sub>	Human	Metabotropic glutamate receptors	RDYTQSSSSL	I
mGlu <sub>7(a)</sub>	Human	Metabotropic glutamate receptors	KYVSYNNLVI	II
Y <sub>2</sub>	Human	Neuropeptide Y receptors	NDSFTEATNV	I
$\delta$ OR	Human	Opioid receptors	SDGPGGAAA	II
$\kappa$ OR	Human	Opioid receptors	RDIDGMNKPV	
$\mu$ OR-1A	Human	Opioid receptors	DRTNHQVRSL	
$\mu$ OR-1B2	Human	Opioid receptors	QRERRQKSDW	I
$\mu$ OR-1B5	Human	Opioid receptors	QSPFPFPGRV	
P2Y <sub>1</sub>	Human	P2Y receptors	EFKQNGDTSL	I
SSTR1	Human	Somatostatin receptors	GTCTSRITTL	I
SSTR1	Mouse	Somatostatin receptors	GTCASRISTL	I
SSTR2A	Human	Somatostatin receptors	LLNGDLQTSI	I
SSTR3	Human	Somatostatin receptors	KSSTMRI SYL	I
SSTR4	Human	Somatostatin receptors	RIPLTRTTTF	I
SSTR4	Mouse	Somatostatin receptors	QVPFTKT TTF	I
SSTR5	Human	Somatostatin receptors	ANGLMQTSKL	I