

# Supplemental Data

## Structure-based virtual screening for ligands of G protein-coupled receptors

### What can molecular docking do for you?

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**Supplemental Table 1.** Experimental non-sensory GPCR structures.<sup>a</sup>

| Receptor           | Uniprot ID | Family                     | Class         | Species | Method  | PDB  | Resolution (Å) | Reference                  |
|--------------------|------------|----------------------------|---------------|---------|---------|------|----------------|----------------------------|
| 5-HT <sub>1B</sub> | P28222     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 7C61 | 3              | 10.1038/S41598-020-68355-X |
| 5-HT <sub>1B</sub> | P28222     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | cryo-EM | 6G79 | 3.8            | 10.1038/S41586-018-0241-9  |
| 5-HT <sub>1B</sub> | P28222     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 5V54 | 3.9            | 10.1038/s41421-018-0009-2  |
| 5-HT <sub>1B</sub> | P28222     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 4IAQ | 2.8            | 10.1126/SCIENCE.1232807    |
| 5-HT <sub>1B</sub> | P28222     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 4IAR | 2.7            | 10.1126/SCIENCE.1232807    |
| 5-HT <sub>2A</sub> | P28223     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6WGT | 3.4            | 10.1016/J.CELL.2020.08.024 |
| 5-HT <sub>2A</sub> | P28223     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | cryo-EM | 6WHA | 3.4            | 10.1016/J.CELL.2020.08.024 |
| 5-HT <sub>2A</sub> | P28223     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6WH4 | 3.4            | 10.1016/J.CELL.2020.08.024 |
| 5-HT <sub>2A</sub> | P28223     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6A93 | 3              | 10.1038/S41594-018-0180-Z  |
| 5-HT <sub>2A</sub> | P28223     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6A94 | 2.9            | 10.1038/S41594-018-0180-Z  |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6DRZ | 3.1            | 10.1038/S41594-018-0116-7  |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6DRY | 2.9            | 10.1038/S41594-018-0116-7  |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6DS0 | 3.2            | 10.1038/S41594-018-0116-7  |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6DRX | 3.1            | 10.1038/S41594-018-0116-7  |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 5TUD | 3              | 10.1073/PNAS.1700891114    |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 5TVN | 2.9            | 10.1016/J.CELL.2016.12.033 |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 4NC3 | 2.8            | 10.1126/SCIENCE.1244142    |
| 5-HT <sub>2B</sub> | P41595     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 4IB4 | 2.7            | 10.1126/SCIENCE.1232808    |
| 5-HT <sub>2C</sub> | P28335     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6BQG | 3              | 10.1016/J.CELL.2018.01.001 |
| 5-HT <sub>2C</sub> | P28335     | 5-Hydroxytryptamine        | A (Rhodopsin) | Human   | X-ray   | 6BQH | 2.7            | 10.1016/J.CELL.2018.01.001 |
| GPR52              | Q9Y2T5     | A orphans                  | A (Rhodopsin) | Human   | X-ray   | 6LI2 | 2.8            | 10.1038/S41586-020-2019-0  |
| GPR52              | Q9Y2T5     | A orphans                  | A (Rhodopsin) | Human   | cryo-EM | 6LI3 | 3.3            | 10.1038/S41586-020-2019-0  |
| GPR52              | Q9Y2T5     | A orphans                  | A (Rhodopsin) | Human   | X-ray   | 6LI0 | 2.2            | 10.1038/S41586-020-2019-0  |
| GPR52              | Q9Y2T5     | A orphans                  | A (Rhodopsin) | Human   | X-ray   | 6LI1 | 2.9            | 10.1038/S41586-020-2019-0  |
| M <sub>1</sub>     | P11229     | Acetylcholine (muscarinic) | A (Rhodopsin) | Human   | X-ray   | 6WJC | 2.6            | 10.1126/SCIENCE.AAX2517    |
| M <sub>1</sub>     | P11229     | Acetylcholine (muscarinic) | A (Rhodopsin) | Human   | cryo-EM | 6OIJ | 3.3            | 10.1126/SCIENCE.AAW5188    |

|                 |        |                            |               |       |         |      |     |                            |
|-----------------|--------|----------------------------|---------------|-------|---------|------|-----|----------------------------|
| M <sub>1</sub>  | P11229 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5CXV | 2.7 | 10.1038/NATURE17188        |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | cryo-EM | 6U1N | 4   | 10.1038/S41586-020-1954-0  |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | cryo-EM | 6OIK | 3.6 | 10.1126/SCIENCE.AAW5188    |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5YC8 | 2.5 | 10.1038/S41589-018-0152-Y  |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5ZKC | 2.3 | 10.1038/S41589-018-0152-Y  |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5ZKB | 3   | 10.1038/S41589-018-0152-Y  |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5ZK8 | 3   | 10.1038/S41589-018-0152-Y  |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5ZK3 | 2.6 | 10.1038/S41589-018-0152-Y  |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 4MQT | 3.7 | 10.1038/NATURE12735        |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 4MQS | 3.5 | 10.1038/NATURE12735        |
| M <sub>2</sub>  | P08172 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 3UON | 3   | 10.1038/NATURE10753        |
| M <sub>3</sub>  | P08483 | Acetylcholine (muscarinic) | A (Rhodopsin) | Rat   | X-ray   | 5ZHP | 3.1 | 10.1073/PNAS.1813988115    |
| M <sub>3</sub>  | P08483 | Acetylcholine (muscarinic) | A (Rhodopsin) | Rat   | X-ray   | 4U16 | 3.7 | 10.1016/J.STR.2014.08.022  |
| M <sub>3</sub>  | P08483 | Acetylcholine (muscarinic) | A (Rhodopsin) | Rat   | X-ray   | 4U15 | 2.8 | 10.1016/J.STR.2014.08.022  |
| M <sub>3</sub>  | P08483 | Acetylcholine (muscarinic) | A (Rhodopsin) | Rat   | X-ray   | 4U14 | 3.6 | 10.1016/J.STR.2014.08.022  |
| M <sub>3</sub>  | P08483 | Acetylcholine (muscarinic) | A (Rhodopsin) | Rat   | X-ray   | 4DAJ | 3.4 | 10.1038/NATURE10867        |
| M <sub>4</sub>  | P08173 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 6KP6 | 3   | 10.1107/S2052252520000597  |
| M <sub>4</sub>  | P08173 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 5DSG | 2.6 | 10.1038/NATURE17188        |
| M <sub>5</sub>  | P08912 | Acetylcholine (muscarinic) | A (Rhodopsin) | Human | X-ray   | 6OL9 | 2.5 | 10.1073/PNAS.1914446116    |
| A <sub>1</sub>  | P30542 | Adenosine                  | A (Rhodopsin) | Human | cryo-EM | 6D9H | 3.6 | 10.1038/S41586-018-0236-6  |
| A <sub>1</sub>  | P30542 | Adenosine                  | A (Rhodopsin) | Human | X-ray   | 5N2S | 3.3 | 10.1016/J.STR.2017.06.012  |
| A <sub>1</sub>  | P30542 | Adenosine                  | A (Rhodopsin) | Human | X-ray   | 5UEN | 3.2 | 10.1016/J.CELL.2017.01.042 |
| A <sub>2A</sub> | P29274 | Adenosine                  | A (Rhodopsin) | Human | X-ray   | 6LPL | 2   | 10.1038/S41598-020-76277-X |
| A <sub>2A</sub> | P29274 | Adenosine                  | A (Rhodopsin) | Human | X-ray   | 6LPK | 1.8 | 10.1038/S41598-020-76277-X |

|                 |        |           |               |       |         |      |     |                            |
|-----------------|--------|-----------|---------------|-------|---------|------|-----|----------------------------|
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6LPJ | 1.8 | 10.1038/S41598-020-76277-X |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6WQA | 2   | 10.1107/S2052252520012701  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6ZDV | 2.1 | 10.1002/ANIE.202003788     |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6ZDR | 1.9 | 10.1002/ANIE.202003788     |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6S0L | 2.7 | 10.1107/S2052252520011379  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6S0Q | 2.7 | 10.1107/S2052252520011379  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6PS7 | 1.9 | 10.1107/S2052252519013137  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6JZH | 2.3 | 10.1107/S1600576719012846  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6GT3 | 2   | 10.1136/jitc-2019-000417   |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6MH8 | 4.2 | 10.1107/S205225251900263X  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | cryo-EM | 6GDG | 4.1 | 10.7554/ELIFE.35946        |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5WF6 | 2.9 | 10.1016/J.STR.2017.12.013  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5WF5 | 2.6 | 10.1016/J.STR.2017.12.013  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OLZ | 1.9 | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OLH | 2.6 | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OM1 | 2.1 | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OLO | 3.1 | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OLV | 2   | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OM4 | 2   | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5OLG | 1.9 | 10.1038/S41598-017-18570-W |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 6AQF | 2.5 | 10.1016/J.CELL.2017.12.004 |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5VRA | 2.4 | 10.1038/NPROT.2017.135     |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5NLX | 2.1 | 10.1038/S41467-017-00630-4 |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5NM2 | 2   | 10.1038/S41467-017-00630-4 |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5NM4 | 1.7 | 10.1038/S41467-017-00630-4 |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5N2R | 2.8 | 10.1016/J.STR.2017.06.012  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5MZP | 2.1 | 10.1016/J.STR.2017.06.012  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5MZJ | 2   | 10.1016/J.STR.2017.06.012  |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5JTB | 2.8 | 10.1126/SCIADV.1602952     |
| A <sub>2A</sub> | P29274 | Adenosine | A (Rhodopsin) | Human | X-ray   | 5UVI | 3.2 | 10.1107/S205225251700570X  |

|                        |        |               |               |       |         |      |     |                              |
|------------------------|--------|---------------|---------------|-------|---------|------|-----|------------------------------|
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5UIG | 3.5 | 10.1073/PNAS.1621423114      |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5K2C | 1.9 | 10.1126/SCIADV.1600292       |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5K2D | 1.9 | 10.1126/SCIADV.1600292       |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5K2B | 2.5 | 10.1126/SCIADV.1600292       |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5K2A | 2.5 | 10.1126/SCIADV.1600292       |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5G53 | 3.4 | 10.1038/NATURE18966          |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5IUA | 2.2 | 10.1021/ACS.JMEDCHEM.6B00653 |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5IU8 | 2   | 10.1021/ACS.JMEDCHEM.6B00653 |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5IU7 | 1.9 | 10.1021/ACS.JMEDCHEM.6B00653 |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5IUB | 2.1 | 10.1021/ACS.JMEDCHEM.6B00653 |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 5IU4 | 1.7 | 10.1021/ACS.JMEDCHEM.6B00653 |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 4UG2 | 2.6 | 10.1124/MOL.114.097360       |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 4UHR | 2.6 | 10.1124/MOL.114.097360       |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 4EIY | 1.8 | 10.1126/SCIENCE.1219218      |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3UZA | 3.3 | 10.1021/JM201376W            |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3UZC | 3.3 | 10.1021/JM201376W            |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3VGA | 3.1 | 10.1038/NATURE10750          |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3VG9 | 2.7 | 10.1038/NATURE10750          |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3REY | 3.3 | 10.1016/J.STR.2011.06.014    |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3RFM | 3.6 | 10.1016/J.STR.2011.06.014    |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3PWH | 3.3 | 10.1016/J.STR.2011.06.014    |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 2YDO | 3   | 10.1038/NATURE10136          |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 2YDV | 2.6 | 10.1038/NATURE10136          |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3QAK | 2.7 | 10.1126/SCIENCE.1202793      |
| A <sub>2A</sub>        | P29274 | Adenosine     | A (Rhodopsin) | Human | X-ray   | 3EML | 2.6 | 10.1126/SCIENCE.1164772      |
| $\alpha$ <sub>2A</sub> | P08913 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6KUX | 2.7 | To be published              |
| $\alpha$ <sub>2A</sub> | P08913 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6KUY | 3.2 | To be published              |
| $\alpha$ <sub>2B</sub> | P08913 | Adrenoceptors | A (Rhodopsin) | Human | cryo-EM | 6K42 | 4.1 | 10.1038/S41589-020-0492-2    |
| $\alpha$ <sub>2B</sub> | P08913 | Adrenoceptors | A (Rhodopsin) | Human | cryo-EM | 6K41 | 2.9 | 10.1038/S41589-020-0492-2    |
| $\alpha$ <sub>2C</sub> | P08913 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6KUW | 2.8 | To be published              |

|           |        |               |               |             |         |       |     |                              |
|-----------|--------|---------------|---------------|-------------|---------|-------|-----|------------------------------|
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | cryo-EM | 7JJO  | 2.6 | 10.1016/J.MOLCEL.2020.08.001 |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | cryo-EM | 6TKO  | 3.3 | 10.1038/S41586-020-2419-1    |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 6IBL  | 2.7 | 10.1101/436212               |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 6H7N  | 2.5 | 10.1101/436212               |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 6H7O  | 2.8 | 10.1126/SCIENCE.AAU5595      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 6H7M  | 2.8 | 10.1126/SCIENCE.AAU5595      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 6H7L  | 2.7 | 10.1126/SCIENCE.AAU5595      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 6H7J  | 2.8 | 10.1126/SCIENCE.AAU5595      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 5F8U  | 3.4 | 10.1038/NSMB.3130            |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 5A8E  | 2.4 | 10.1124/MOL.115.101030       |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 4BVN  | 2.1 | 10.1371/JOURNAL.PONE.0092727 |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 3ZPR  | 2.7 | 10.1021/JM400140Q            |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 3ZPQ  | 2.8 | 10.1021/JM400140Q            |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 4GPO  | 3.5 | 10.1038/NSMB.2504            |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 4AMJ  | 2.3 | 10.1016/J.STR.2012.03.014    |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 4AMI  | 3.2 | 10.1016/J.STR.2012.03.014    |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2YCY  | 3.2 | 10.1073/PNAS.1100185108      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2YCX  | 3.3 | 10.1073/PNAS.1100185108      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2YCW  | 3   | 10.1073/PNAS.1100185108      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2Y CZ | 3.7 | 10.1073/PNAS.1100185108      |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2Y01  | 2.6 | 10.1038/NATURE09746          |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2Y02  | 2.6 | 10.1038/NATURE09746          |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2Y03  | 2.9 | 10.1038/NATURE09746          |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2Y04  | 3.1 | 10.1038/NATURE09746          |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2Y00  | 2.5 | 10.1038/NATURE09746          |
| $\beta_1$ | P07700 | Adrenoceptors | A (Rhodopsin) | Wild turkey | X-ray   | 2VT4  | 2.7 | 10.1038/NATURE07101          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human       | cryo-EM | 7DHI  | 3.3 | 10.1093/NSR/NWAA284          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human       | cryo-EM | 7DHR  | 3.8 | 10.1093/NSR/NWAA284          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human       | cryo-EM | 7BZ2  | 3.8 | 10.1038/S41421-020-0176-9    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human       | X-ray   | 6OBA  | 3.1 | 10.1038/S41589-020-0549-2    |

|           |        |               |               |       |         |       |     |                              |
|-----------|--------|---------------|---------------|-------|---------|-------|-----|------------------------------|
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | cryo-EM | 6NI3  | 3.8 | 10.1038/S41594-019-0330-Y    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS1  | 3.2 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS4  | 2.6 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS3  | 2.5 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS6  | 2.7 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS5  | 2.9 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS2  | 2.4 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PS0  | 3.4 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6PRZ  | 2.8 | 10.1107/S2052252519013137    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6N48  | 3.2 | 10.1126/SCIENCE.AAW8981      |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6E+67 | 3.7 | 10.1016/J.CELL.2019.04.021   |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 6MXT  | 3   | 10.1038/S41589-018-0145-X    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 5X7D  | 2.7 | 10.1038/NATURE23652          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 5D6L  | 3.2 | 10.1038/NPROT.2017.057       |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 5JQH  | 3.2 | 10.1038/NATURE18636          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 5D5A  | 2.5 | 10.1107/S2059798315021683    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 5D5B  | 3.8 | 10.1107/S2059798315021683    |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 4QKX  | 3.3 | 10.1073/PNAS.1410415111      |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 4LDE  | 2.8 | 10.1038/NATURE12572          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 4LDO  | 3.2 | 10.1038/NATURE12572          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 4LDL  | 3.1 | 10.1038/NATURE12572          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 4GBR  | 4   | 10.1371/JOURNAL.PONE.0046039 |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3SN6  | 3.2 | 10.1038/NATURE10361          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3P0G  | 3.5 | 10.1038/NATURE09648          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3PDS  | 3.5 | 10.1038/NATURE09665          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3NYA  | 3.2 | 10.1021/JA105108Q            |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3NY9  | 2.8 | 10.1021/JA105108Q            |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3NY8  | 2.8 | 10.1021/JA105108Q            |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3KJ6  | 3.4 | 10.1038/NATURE08650          |
| $\beta_2$ | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 3D4S  | 2.8 | 10.1016/J.STR.2008.05.001    |



|                 |        |               |               |       |         |      |     |                            |
|-----------------|--------|---------------|---------------|-------|---------|------|-----|----------------------------|
| $\beta_2$       | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 2R4S | 3.4 | 10.1038/NATURE06325        |
| $\beta_2$       | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 2R4R | 3.4 | 10.1038/NATURE06325        |
| $\beta_2$       | P07550 | Adrenoceptors | A (Rhodopsin) | Human | X-ray   | 2RH1 | 2.4 | 10.1126/SCIENCE.1150577    |
| AT <sub>1</sub> | P30556 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 6OS2 | 2.7 | 10.1126/SCIENCE.AAY9813    |
| AT <sub>1</sub> | P30556 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 6OS1 | 2.8 | 10.1126/SCIENCE.AAY9813    |
| AT <sub>1</sub> | P30556 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 6OS0 | 2.9 | 10.1126/SCIENCE.AAY9813    |
| AT <sub>1</sub> | P30556 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 6DO1 | 2.9 | 10.1016/J.CELL.2018.12.006 |
| AT <sub>1</sub> | P30556 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 4ZUD | 2.8 | 10.1074/JBC.M115.689000    |
| AT <sub>1</sub> | P30556 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 4YAY | 2.9 | 10.1016/J.CELL.2015.04.011 |
| AT <sub>2</sub> | P50052 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 7C6A | 3.4 | 10.1038/S41598-020-68355-X |
| AT <sub>2</sub> | P50052 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 6JOD | 3.2 | 10.1016/J.STR.2019.12.003  |
| AT <sub>2</sub> | P50052 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 5XJM | 3.2 | 10.1038/S41594-018-0079-8  |
| AT <sub>2</sub> | P50052 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 5UNG | 2.8 | 10.1038/NATURE22035        |
| AT <sub>2</sub> | P50052 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 5UNF | 2.8 | 10.1038/NATURE22035        |
| AT <sub>2</sub> | P50052 | Angiotensin   | A (Rhodopsin) | Human | X-ray   | 5UNH | 2.9 | 10.1038/NATURE22035        |
| APJ             | P35414 | Apelin        | A (Rhodopsin) | Human | X-ray   | 6KNM | 3.2 | 10.1126/SCIADV.AAX7379     |
| APJ             | P35414 | Apelin        | A (Rhodopsin) | Human | X-ray   | 5VBL | 2.6 | 10.1016/J.STR.2017.04.008  |
| GPBAR           | Q8TDU6 | Bile acid     | A (Rhodopsin) | Human | cryo-EM | 7CFM | 3   | 10.1038/S41586-020-2569-1  |
| GPBAR           | Q8TDU6 | Bile acid     | A (Rhodopsin) | Human | cryo-EM | 7CFN | 3   | 10.1038/S41586-020-2569-1  |
| GPBAR           | Q8TDU6 | Bile acid     | A (Rhodopsin) | Human | cryo-EM | 7BW0 | 3.9 | 10.1038/S41392-020-00262-Z |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | cryo-EM | 6KPG | 3   | 10.1016/J.CELL.2020.01.008 |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | X-ray   | 6KQI | 3.3 | 10.1038/S41589-019-0387-2  |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | cryo-EM | 6N4B | 3   | 10.1016/J.CELL.2018.11.040 |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | X-ray   | 5XR8 | 3   | 10.1038/NATURE23272        |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | X-ray   | 5XRA | 2.8 | 10.1038/NATURE23272        |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | X-ray   | 5U09 | 2.6 | 10.1038/NATURE20613        |
| CB <sub>1</sub> | P21554 | Cannabinoid   | A (Rhodopsin) | Human | X-ray   | 5TGZ | 2.8 | 10.1016/J.CELL.2016.10.004 |
| CB <sub>2</sub> | P34972 | Cannabinoid   | A (Rhodopsin) | Human | cryo-EM | 6PT0 | 3.2 | 10.1016/J.CELL.2020.01.007 |
| CB <sub>2</sub> | P34972 | Cannabinoid   | A (Rhodopsin) | Human | cryo-EM | 6KPF | 2.9 | 10.1016/J.CELL.2020.01.008 |
| CB <sub>2</sub> | P34972 | Cannabinoid   | A (Rhodopsin) | Human | X-ray   | 6KPC | 3.2 | 10.1016/J.CELL.2020.01.008 |

|                  |        |                    |               |       |         |      |     |                              |
|------------------|--------|--------------------|---------------|-------|---------|------|-----|------------------------------|
| CB <sub>2</sub>  | P34972 | Cannabinoid        | A (Rhodopsin) | Human | X-ray   | 5ZTY | 2.8 | 10.1016/J.CELL.2018.12.011   |
| CCR2             | P41597 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 6GPS | 3.3 | 10.1016/J.STR.2018.10.027    |
| CCR2             | P41597 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 6GPX | 2.7 | 10.1016/J.STR.2018.10.027    |
| CCR2             | P41597 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 5T1A | 2.8 | 10.1038/NATURE20605          |
| CCR5             | P51681 | Chemokine          | A (Rhodopsin) | Human | cryo-EM | 6MET | 4.5 | 10.1038/S41586-018-0804-9    |
| CCR5             | P51681 | Chemokine          | A (Rhodopsin) | Human | cryo-EM | 6MEO | 3.9 | 10.1038/S41586-018-0804-9    |
| CCR5             | P51681 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 6AKY | 2.8 | 10.1021/ACS.JMEDCHEM.8B01077 |
| CCR5             | P51681 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 6AKX | 2.8 | 10.1021/ACS.JMEDCHEM.8B01077 |
| CCR5             | P51681 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 5UIW | 2.2 | 10.1016/J.IMMUNI.2017.05.002 |
| CCR5             | P51681 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 4MBS | 2.7 | 10.1126/SCIENCE.1241475      |
| CCR6             | P51684 | Chemokine          | A (Rhodopsin) | Human | cryo-EM | 6WWZ | 3.3 | 10.1038/S41467-020-16820-6   |
| CCR7             | P32248 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 6QZH | 2.1 | 10.1016/J.CELL.2019.07.028   |
| CCR9             | P51686 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 5LWE | 2.8 | 10.1038/NATURE20606          |
| CXCR2            | P25025 | Chemokine          | A (Rhodopsin) | Human | cryo-EM | 6LFM | 3.5 | 10.1038/S41586-020-2492-5    |
| CXCR2            | P25025 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 6LFL | 3.2 | 10.1038/S41586-020-2492-5    |
| CXCR2            | P25025 | Chemokine          | A (Rhodopsin) | Human | cryo-EM | 6LFO | 3.4 | 10.1038/S41586-020-2492-5    |
| CXCR4            | P61073 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 4RWS | 3.1 | 10.1126/SCIENCE.1261064      |
| CXCR4            | P61073 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 3OE8 | 3.1 | 10.1126/SCIENCE.1194396      |
| CXCR4            | P61073 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 3ODU | 2.5 | 10.1126/SCIENCE.1194396      |
| CXCR4            | P61073 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 3OE6 | 3.2 | 10.1126/SCIENCE.1194396      |
| CXCR4            | P61073 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 3OE9 | 3.1 | 10.1126/SCIENCE.1194396      |
| CXCR4            | P61073 | Chemokine          | A (Rhodopsin) | Human | X-ray   | 3OE0 | 2.9 | 10.1126/SCIENCE.1194396      |
| C5 <sub>a1</sub> | P21730 | Complement peptide | A (Rhodopsin) | Human | X-ray   | 6C1R | 2.2 | 10.1038/S41594-018-0067-Z    |
| C5 <sub>a1</sub> | P21730 | Complement peptide | A (Rhodopsin) | Human | X-ray   | 6C1Q | 2.9 | 10.1038/S41594-018-0067-Z    |
| C5 <sub>a1</sub> | P21730 | Complement peptide | A (Rhodopsin) | Human | X-ray   | 5O9H | 2.7 | 10.1038/NATURE25025          |
| D <sub>1</sub>   | P63092 | Dopamine           | A (Rhodopsin) | Human | cryo-EM | 7CKZ | 3.1 | 10.1016/J.CELL.2021.01.028   |
| D <sub>1</sub>   | P63092 | Dopamine           | A (Rhodopsin) | Human | cryo-EM | 7CKX | 3.5 | 10.1016/J.CELL.2021.01.028   |
| D <sub>1</sub>   | P63092 | Dopamine           | A (Rhodopsin) | Human | cryo-EM | 7CKW | 3.2 | 10.1016/J.CELL.2021.01.028   |
| D <sub>1</sub>   | P63092 | Dopamine           | A (Rhodopsin) | Human | cryo-EM | 7CRH | 3.3 | 10.1016/J.CELL.2021.01.028   |
| D <sub>1</sub>   | P63092 | Dopamine           | A (Rhodopsin) | Human | cryo-EM | 7CKY | 3.2 | 10.1016/J.CELL.2021.01.028   |

|                   |        |                         |               |       |         |      |     |                            |
|-------------------|--------|-------------------------|---------------|-------|---------|------|-----|----------------------------|
| D <sub>1</sub>    | P63092 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 7LJC | 3   | 10.1101/2021.02.07.430101  |
| D <sub>1</sub>    | P63092 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 7LJD | 3.2 | 10.1101/2021.02.07.430101  |
| D <sub>1</sub>    | P63092 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 7JV5 | 3   | 10.1016/J.CELL.2021.01.027 |
| D <sub>1</sub>    | P63092 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 7JVQ | 3   | 10.1016/J.CELL.2021.01.027 |
| D <sub>1</sub>    | P63092 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 7JVP | 2.9 | 10.1016/J.CELL.2021.01.027 |
| D <sub>2</sub>    | P14416 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 7JVR | 2.8 | 10.1016/J.CELL.2021.01.027 |
| D <sub>2</sub>    | P14416 | Dopamine                | A (Rhodopsin) | Human | X-ray   | 7DFP | 3.1 | 10.1038/S41467-020-20221-0 |
| D <sub>2</sub>    | P14416 | Dopamine                | A (Rhodopsin) | Human | cryo-EM | 6VMS | 3.8 | 10.1038/S41586-020-2379-5  |
| D <sub>2</sub>    | P14416 | Dopamine                | A (Rhodopsin) | Human | X-ray   | 6LUQ | 3.1 | 10.1038/S41467-020-14884-Y |
| D <sub>2</sub>    | P14416 | Dopamine                | A (Rhodopsin) | Human | X-ray   | 6CM4 | 2.9 | 10.1038/NATURE25758        |
| D <sub>3</sub>    | P35462 | Dopamine                | A (Rhodopsin) | Human | X-ray   | 3PBL | 2.9 | 10.1126/SCIENCE.1197410    |
| D <sub>4</sub>    | P21917 | Dopamine                | A (Rhodopsin) | Human | X-ray   | 5WIU | 2   | 10.1126/SCIENCE.AAN5468    |
| D <sub>4</sub>    | P21917 | Dopamine                | A (Rhodopsin) | Human | X-ray   | 5WIV | 2.1 | 10.1126/SCIENCE.AAN5468    |
| D <sub>4</sub>    | P51436 | Dopamine                | A (Rhodopsin) | Mouse | X-ray   | 6IQL | 3.5 | 10.7554/ELIFE.48822        |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 6LRY | 3   | 10.1016/J.BBRC.2019.12.091 |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 6K1Q | 2.7 | 10.1038/S42003-019-0482-7  |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 6IGK | 2   | 10.1038/S41467-018-07094-0 |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 6IGL | 2.7 | 10.1038/S41467-018-07094-0 |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 5XPR | 3.6 | 10.1038/NSMB.3450          |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 5X93 | 2.2 | 10.1038/NSMB.3450          |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 5GLH | 2.8 | 10.1038/NATURE19319        |
| ET <sub>B</sub>   | P24530 | Endothelin              | A (Rhodopsin) | Human | X-ray   | 5GLI | 2.5 | 10.1038/NATURE19319        |
| FPR <sub>2</sub>  | P25090 | Formylpeptide           | A (Rhodopsin) | Human | X-ray   | 6LW5 | 2.8 | 10.1038/S41467-020-15009-1 |
| FPR <sub>2</sub>  | P25090 | Formylpeptide           | A (Rhodopsin) | Human | cryo-EM | 6OMM | 3.2 | 10.1038/S41467-020-14728-9 |
| FFA <sub>1</sub>  | O14842 | Free fatty acid         | A (Rhodopsin) | Human | X-ray   | 5KW2 | 2.8 | 10.1038/S41467-017-01240-W |
| FFA <sub>1</sub>  | O14842 | Free fatty acid         | A (Rhodopsin) | Human | X-ray   | 5TZR | 2.2 | 10.1038/NSMB.3417          |
| FFA <sub>1</sub>  | O14842 | Free fatty acid         | A (Rhodopsin) | Human | X-ray   | 5TZY | 3.2 | 10.1038/NSMB.3417          |
| FFA <sub>1</sub>  | O14842 | Free fatty acid         | A (Rhodopsin) | Human | X-ray   | 4PHU | 2.3 | 10.1038/NATURE13494        |
| GHSR              | Q92847 | Ghrelin                 | A (Rhodopsin) | Human | X-ray   | 6KO5 | 3.3 | 10.1038/s41467-020-17554-1 |
| GnRH <sub>1</sub> | P30968 | Gonadotrophin-releasing | A (Rhodopsin) | Human | X-ray   | 7BR3 | 2.8 | 10.1038/s41467-020-19109-w |

## hormone

|                    |        |                        |               |            |       |      |     |                            |
|--------------------|--------|------------------------|---------------|------------|-------|------|-----|----------------------------|
| H <sub>1</sub>     | P35367 | Histamine              | A (Rhodopsin) | Human      | X-ray | 3RZE | 3.1 | 10.1038/NATURE10236        |
| BLT <sub>1</sub>   | Q9WTK1 | Leukotriene            | A (Rhodopsin) | Guinea pig | X-ray | 5X33 | 3.7 | 10.1038/NCHEMBIO.2547      |
| BLT <sub>1</sub>   | Q15722 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 7K15 | 2.9 | To be published            |
| CysLT <sub>1</sub> | Q9Y271 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 6RZ4 | 2.7 | 10.1126/SCIADV.AAX2518     |
| CysLT <sub>1</sub> | Q9Y271 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 6RZ5 | 2.5 | 10.1126/SCIADV.AAX2518     |
| CysLT <sub>2</sub> | Q9NS75 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 6RZ8 | 2.7 | 10.1038/S41467-019-13348-2 |
| CysLT <sub>2</sub> | Q9NS75 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 6RZ6 | 2.4 | 10.1038/S41467-019-13348-2 |
| CysLT <sub>2</sub> | Q9NS75 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 6RZ9 | 2.7 | 10.1038/S41467-019-13348-2 |
| CysLT <sub>2</sub> | Q9NS75 | Leukotriene            | A (Rhodopsin) | Human      | X-ray | 6RZ7 | 2.4 | 10.1038/S41467-019-13348-2 |
| LPA <sub>1</sub>   | Q92633 | Lysophospholipid (LPA) | A (Rhodopsin) | Human      | X-ray | 4Z36 | 2.9 | 10.1016/J.CELL.2015.06.002 |
| LPA <sub>1</sub>   | Q92633 | Lysophospholipid (LPA) | A (Rhodopsin) | Human      | X-ray | 4Z34 | 3   | 10.1016/J.CELL.2015.06.002 |
| LPA <sub>1</sub>   | Q92633 | Lysophospholipid (LPA) | A (Rhodopsin) | Human      | X-ray | 4Z35 | 2.9 | 10.1016/J.CELL.2015.06.002 |
| LPA <sub>6</sub>   | Q08BG4 | Lysophospholipid (LPA) | A (Rhodopsin) | Zebrafish  | X-ray | 5XSZ | 3.2 | 10.1038/NATURE23448        |
| S1P <sub>1</sub>   | P21453 | Lysophospholipid (S1P) | A (Rhodopsin) | Human      | X-ray | 3V2Y | 2.8 | 10.1126/SCIENCE.1215904    |
| S1P <sub>1</sub>   | P21453 | Lysophospholipid (S1P) | A (Rhodopsin) | Human      | X-ray | 3V2W | 3.4 | 10.1126/SCIENCE.1215904    |
| MC <sub>4</sub>    | P32245 | Melanocortin           | A (Rhodopsin) | Human      | X-ray | 6W25 | 2.8 | 10.1126/SCIENCE.AAZ8995    |
| MT <sub>1</sub>    | P48039 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6PS8 | 3.3 | 10.1107/S2052252519013137  |
| MT <sub>1</sub>    | P48039 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME4 | 3.2 | 10.1038/S41586-019-1141-3  |
| MT <sub>1</sub>    | P48039 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME2 | 2.8 | 10.1038/S41586-019-1141-3  |
| MT <sub>1</sub>    | P48039 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME5 | 3.2 | 10.1038/S41586-019-1141-3  |
| MT <sub>1</sub>    | P48039 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME3 | 2.9 | 10.1038/S41586-019-1141-3  |
| MT <sub>2</sub>    | P49286 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME8 | 3.1 | 10.1038/S41586-019-1144-0  |
| MT <sub>2</sub>    | P49286 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME6 | 2.8 | 10.1038/S41586-019-1144-0  |
| MT <sub>2</sub>    | P49286 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME9 | 3.3 | 10.1038/S41586-019-1144-0  |
| MT <sub>2</sub>    | P49286 | Melatonin              | A (Rhodopsin) | Human      | X-ray | 6ME7 | 3.2 | 10.1038/S41586-019-1144-0  |
| NPY <sub>1</sub>   | P25929 | Neuropeptide Y         | A (Rhodopsin) | Human      | X-ray | 5ZBH | 3   | 10.1038/S41586-018-0046-X  |
| NPY <sub>1</sub>   | P25929 | Neuropeptide Y         | A (Rhodopsin) | Human      | X-ray | 5ZBQ | 2.7 | 10.1038/S41586-018-0046-X  |
| NPY <sub>2</sub>   | P25929 | Neuropeptide Y         | A (Rhodopsin) | Human      | X-ray | 7DDZ | 2.8 | 10.1038/s41467-021-21030-9 |

|                  |        |             |               |       |         |      |     |                            |
|------------------|--------|-------------|---------------|-------|---------|------|-----|----------------------------|
| NTS <sub>1</sub> | P30990 | Neurotensin | A (Rhodopsin) | Human | cryo-EM | 6UP7 | 4.2 | 10.1038/S41586-020-1953-1  |
| NTS <sub>1</sub> | P30990 | Neurotensin | A (Rhodopsin) | Human | cryo-EM | 6PWC | 4.9 | 10.1038/S41422-019-0256-2  |
| NTS <sub>1</sub> | P30990 | Neurotensin | A (Rhodopsin) | Human | cryo-EM | 6OSA | 3   | 10.1038/S41586-019-1337-6  |
| NTS <sub>1</sub> | P30990 | Neurotensin | A (Rhodopsin) | Human | cryo-EM | 6OS9 | 3   | 10.1038/S41586-019-1337-6  |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | cryo-EM | 7L0R | 4.2 | 10.1038/s41594-020-00554-6 |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | cryo-EM | 7L0P | 4.1 | 10.1038/s41594-020-00554-6 |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | cryo-EM | 7L0S | 4.5 | 10.1038/s41594-020-00554-6 |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | cryo-EM | 7L0Q | 4.3 | 10.1038/s41594-020-00554-6 |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 5T04 | 3.3 | 10.1038/SREP38564          |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 4XES | 2.6 | 10.1038/NCOMMS8895         |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 4XEE | 2.9 | 10.1038/NCOMMS8895         |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 4BUO | 2.8 | 10.1073/PNAS.1317903111    |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 4BV0 | 3.1 | 10.1073/PNAS.1317903111    |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 4BWB | 3.6 | 10.1073/PNAS.1317903111    |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 3ZEV | 3   | 10.1073/PNAS.1317903111    |
| NTS <sub>1</sub> | P20789 | Neurotensin | A (Rhodopsin) | Rat   | X-ray   | 4GRV | 2.8 | 10.1038/NATURE11558        |
| NOP              | P41146 | Opioid      | A (Rhodopsin) | Human | X-ray   | 5DHH | 3   | 10.1016/J.STR.2015.07.024  |
| NOP              | P41146 | Opioid      | A (Rhodopsin) | Human | X-ray   | 5DHG | 3   | 10.1016/J.STR.2015.07.024  |
| NOP              | P41146 | Opioid      | A (Rhodopsin) | Human | X-ray   | 4EA3 | 3   | 10.1038/NATURE11085        |
| DOR              | P41143 | Opioid      | A (Rhodopsin) | Human | X-ray   | 6PT3 | 3.3 | 10.1126/SCIADV.AAX9115     |
| DOR              | P41143 | Opioid      | A (Rhodopsin) | Human | X-ray   | 6PT2 | 2.8 | 10.1126/SCIADV.AAX9115     |
| DOR              | P41143 | Opioid      | A (Rhodopsin) | Human | X-ray   | 4RWD | 2.7 | 10.1038/NSMB.2965          |
| DOR              | P41143 | Opioid      | A (Rhodopsin) | Human | X-ray   | 4RWA | 3.3 | 10.1038/NSMB.2965          |
| DOR              | P41143 | Opioid      | A (Rhodopsin) | Human | X-ray   | 4N6H | 1.8 | 10.1038/NATURE12944        |
| DOR              | P32300 | Opioid      | A (Rhodopsin) | Mouse | X-ray   | 4EJ4 | 3.4 | 10.1038/NATURE11111        |
| KOR              | P41145 | Opioid      | A (Rhodopsin) | Human | X-ray   | 6V14 | 3.3 | 10.1038/S41467-020-14889-7 |
| KOR              | P41145 | Opioid      | A (Rhodopsin) | Human | X-ray   | 6B73 | 3.1 | 10.1016/J.CELL.2017.12.011 |
| KOR              | P41145 | Opioid      | A (Rhodopsin) | Human | X-ray   | 4DJH | 2.9 | 10.1038/NATURE10939        |
| MOR              | P42866 | Opioid      | A (Rhodopsin) | Mouse | cryo-EM | 6DDF | 3.5 | 10.1038/S41586-018-0219-7  |
| MOR              | P42866 | Opioid      | A (Rhodopsin) | Mouse | cryo-EM | 6DDE | 3.5 | 10.1038/S41586-018-0219-7  |

|     |        |        |               |        |         |      |     |                              |
|-----|--------|--------|---------------|--------|---------|------|-----|------------------------------|
| MOR | P42866 | Opioid | A (Rhodopsin) | Mouse  | X-ray   | 5C1M | 2.1 | 10.1038/NATURE14886          |
| MOR | P42866 | Opioid | A (Rhodopsin) | Mouse  | X-ray   | 4DKL | 2.8 | 10.1038/NATURE10954          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6PGS | 2.9 | To be published              |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6PH7 | 2.9 | To be published              |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6PEL | 3.2 | To be published              |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6NWE | 2.7 | To be published              |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | cryo-EM | 6OFJ | 4.5 | 10.1074/jbc.RA119.010089     |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | cryo-EM | 6OYA | 3.3 | 10.1016/j.molcel.2019.06.007 |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | cryo-EM | 6OY9 | 3.9 | 10.1016/j.molcel.2019.06.007 |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | cryo-EM | 6QNO | 4.4 | 10.7554/eLife.46041          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FUF | 3.1 | 10.1126/sciadv.aat7052       |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FKC | 2.5 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FK6 | 2.4 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FKB | 3   | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FK7 | 2.6 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FKD | 2.5 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FK8 | 2.9 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FKA | 2.7 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 6FK9 | 2.6 | 10.1073/pnas.1718084115      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 5WKT | 3.2 | 10.1038/nprot.2017.135       |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 5TE5 | 4   | 10.1073/pnas.1617446114      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 5TE3 | 2.7 | 10.1073/pnas.1617446114      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 5DYS | 2.3 | 10.15252/embr.201642671      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 5EN0 | 2.8 | 10.15252/embr.201642671      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 4X1H | 2.3 | 10.1016/j.str.2015.09.015    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 4PXF | 2.8 | 10.1038/ncomms5801           |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine | X-ray   | 4J4Q | 2.7 | 10.1002/anie.201302374       |

|     |        |        |               |                    |         |      |     |                              |
|-----|--------|--------|---------------|--------------------|---------|------|-----|------------------------------|
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 4BEY | 2.9 | 10.1038/embor.2013.44        |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 4BEZ | 3.3 | 10.1038/embor.2013.44        |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 4A4M | 3.3 | 10.1073/pnas.1114089108      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2X72 | 3   | 10.1038/nature09795          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3PXO | 3   | 10.1038/nature09789          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3PQR | 2.9 | 10.1038/nature09789          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3OAX | 2.6 | 10.1016/j.bpj.2010.08.003    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3DQB | 3.2 | 10.1038/nature07330          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3C9M | 3.4 | 10.1107/S0907444908017162    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3C9L | 2.7 | 10.1107/S0907444908017162    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 3CAP | 2.9 | 10.1038/nature07063          |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2PED | 3   | 10.1529/biophysj.107.108225  |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2J4Y | 3.4 | 10.1016/j.jmb.2007.03.007    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2I36 | 4.1 | 10.1073/pnas.0608022103      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2I35 | 3.8 | 10.1073/pnas.0608022103      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2I37 | 4.2 | 10.1073/pnas.0608022103      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2G87 | 2.6 | 10.1002/anie.200600595       |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 2HPY | 2.8 | 10.1073/pnas.0601765103      |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 1U19 | 2.2 | 10.1016/j.jmb.2004.07.044    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 1GZM | 2.7 | 10.1016/j.jmb.2004.08.090    |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 1L9H | 2.6 | 10.1073/pnas.082666399       |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 1HZX | 2.8 | 10.1021/bi0155091            |
| Rho | P02699 | Opsins | A (Rhodopsin) | Bovine             | X-ray   | 1F88 | 2.8 | 10.1126/science.289.5480.739 |
| Rho | B1B1U5 | Opsins | A (Rhodopsin) | Hasarius adansonii | X-ray   | 6I9K | 2.2 | 10.1073/pnas.1902192116      |
| Rho | P08100 | Opsins | A (Rhodopsin) | Human              | cryo-EM | 6CMO | 4.5 | 10.1038/s41586-018-0215-y    |
| Rho | P08100 | Opsins | A (Rhodopsin) | Human              | X-ray   | 5W0P | 3   | 10.1016/j.cell.2017.07.002   |
| Rho | P08100 | Opsins | A (Rhodopsin) | Human              | X-ray   | 5DGY | 7.7 | 10.1038/sdata.2016.21        |
| Rho | P08100 | Opsins | A (Rhodopsin) | Human              | X-ray   | 4ZWJ | 3.3 | 10.1038/nature14656          |

|                   |        |        |               |                       |       |      |     |                              |
|-------------------|--------|--------|---------------|-----------------------|-------|------|-----|------------------------------|
| Rho               | P31356 | Opsins | A (Rhodopsin) | Japanese flying squid | X-ray | 4WW3 | 2.8 | 10.1371/journal.pone.0126970 |
| Rho               | P31356 | Opsins | A (Rhodopsin) | Japanese flying squid | X-ray | 3AYM | 2.8 | 10.1016/j.jmb.2011.08.044    |
| Rho               | P31356 | Opsins | A (Rhodopsin) | Japanese flying squid | X-ray | 3AYN | 2.7 | 10.1016/j.jmb.2011.08.044    |
| Rho               | P31356 | Opsins | A (Rhodopsin) | Japanese flying squid | X-ray | 2Z73 | 2.5 | 10.1038/nature06925          |
| Rho               | P31356 | Opsins | A (Rhodopsin) | Japanese flying squid | X-ray | 2Z1Y | 3.7 | 10.1074/jbc.C800040200       |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6V9S | 3.5 | 10.1073/PNAS.2002704117      |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TOS | 2.1 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TOT | 2.2 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TOD | 2.1 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TP3 | 3   | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TP4 | 3   | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TQ6 | 2.6 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TO7 | 2.3 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TQ9 | 2.7 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TQ7 | 2.7 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TP6 | 2.3 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TQ4 | 2.3 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 4ZJ8 | 2.8 | 10.1038/NSMB.3183            |
| OX <sub>1</sub>   | O43613 | Orexin | A (Rhodopsin) | Human                 | X-ray | 4ZJC | 2.8 | 10.1038/NSMB.3183            |
| OX <sub>2</sub>   | O43614 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TPJ | 2.7 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>2</sub>   | O43614 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TPG | 2.7 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>2</sub>   | O43614 | Orexin | A (Rhodopsin) | Human                 | X-ray | 6TPN | 2.6 | 10.1021/ACS.JMEDCHEM.9B01787 |
| OX <sub>2</sub>   | O43614 | Orexin | A (Rhodopsin) | Human                 | X-ray | 5WS3 | 2.3 | 10.1016/J.STR.2017.11.005    |
| OX <sub>2</sub>   | O43614 | Orexin | A (Rhodopsin) | Human                 | X-ray | 5WQC | 2   | 10.1016/J.STR.2017.11.005    |
| OX <sub>2</sub>   | O43614 | Orexin | A (Rhodopsin) | Human                 | X-ray | 4S0V | 2.5 | 10.1038/NATURE14035          |
| P2Y <sub>1</sub>  | P47900 | P2Y    | A (Rhodopsin) | Human                 | X-ray | 4XNV | 2.2 | 10.1038/NATURE14287          |
| P2Y <sub>1</sub>  | P47900 | P2Y    | A (Rhodopsin) | Human                 | X-ray | 4XNW | 2.7 | 10.1038/NATURE14287          |
| P2Y <sub>12</sub> | Q9H244 | P2Y    | A (Rhodopsin) | Human                 | X-ray | 4PY0 | 3.1 | 10.1038/NATURE13288          |
| P2Y <sub>12</sub> | Q9H244 | P2Y    | A (Rhodopsin) | Human                 | X-ray | 4PXZ | 2.5 | 10.1038/NATURE13288          |
| P2Y <sub>12</sub> | Q9H244 | P2Y    | A (Rhodopsin) | Human                 | X-ray | 4NTJ | 2.6 | 10.1038/NATURE13083          |



|                 |        |                            |               |              |         |      |     |                              |
|-----------------|--------|----------------------------|---------------|--------------|---------|------|-----|------------------------------|
| PAF             | P00323 | Platelet-activating factor | A (Rhodopsin) | Human        | X-ray   | 5ZKP | 2.8 | 10.1038/S41594-018-0068-Y    |
| PAF             | P00323 | Platelet-activating factor | A (Rhodopsin) | Human        | X-ray   | 5ZKQ | 2.9 | 10.1038/S41594-018-0068-Y    |
| DP <sub>2</sub> | Q9Y5Y4 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 6D26 | 2.8 | 10.1016/J.MOLCEL.2018.08.009 |
| DP <sub>2</sub> | Q9Y5Y4 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 6D27 | 2.7 | 10.1016/J.MOLCEL.2018.08.009 |
| EP <sub>3</sub> | P43115 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 6AK3 | 2.9 | 10.1038/S41589-018-0171-8    |
| EP <sub>3</sub> | P43115 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 6M9T | 2.5 | 10.1038/S41589-018-0160-Y    |
| EP <sub>4</sub> | P35408 | Prostanoid                 | A (Rhodopsin) | Human        | cryo-EM | 7D7M | 3.3 | To be published              |
| EP <sub>4</sub> | P35408 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 5YHL | 4.2 | 10.1038/S41589-018-0131-3    |
| EP <sub>4</sub> | P35408 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 5YWY | 3.2 | 10.1038/S41589-018-0131-3    |
| TA <sub>2</sub> | P21731 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 6IIV | 3   | 10.1038/S41589-018-0170-9    |
| TA <sub>2</sub> | P21731 | Prostanoid                 | A (Rhodopsin) | Human        | X-ray   | 6IIU | 2.5 | 10.1038/S41589-018-0170-9    |
| PAR1            | P25116 | Proteinase-activated       | A (Rhodopsin) | Human        | X-ray   | 3VW7 | 2.2 | 10.1038/NATURE11701          |
| PAR2            | P55085 | Proteinase-activated       | A (Rhodopsin) | Human        | X-ray   | 5NDD | 2.8 | 10.1038/NATURE22309          |
| PAR2            | P55085 | Proteinase-activated       | A (Rhodopsin) | Human        | X-ray   | 5NJ6 | 4   | 10.1038/NATURE22309          |
| PAR2            | P55085 | Proteinase-activated       | A (Rhodopsin) | Human        | X-ray   | 5NDZ | 3.6 | 10.1038/NATURE22309          |
| SUCNR1          | Q6IYF9 | Succinate                  | A (Rhodopsin) | Rat          | X-ray   | 6Z10 | 2.3 | 10.1021/ACS.JMEDCHEM.0C01020 |
| SUCNR1          | Q6IYF9 | Succinate                  | A (Rhodopsin) | Rat          | X-ray   | 6RNK | 1.9 | 10.1038/S41586-019-1663-8    |
| SUCNR1          | Q6IYF9 | Succinate                  | A (Rhodopsin) | Rat          | X-ray   | 6IBB | 2.1 | 10.1038/S41586-019-1663-8    |
| NK <sub>1</sub> | P25103 | Tachykinin                 | A (Rhodopsin) | Human        | X-ray   | 6J20 | 2.7 | 10.1038/S41467-019-08568-5   |
| NK <sub>1</sub> | P25103 | Tachykinin                 | A (Rhodopsin) | Human        | X-ray   | 6J21 | 3.2 | 10.1038/S41467-019-08568-5   |
| NK <sub>1</sub> | P25103 | Tachykinin                 | A (Rhodopsin) | Human        | X-ray   | 6HLO | 2.4 | 10.1038/S41467-018-07939-8   |
| NK <sub>1</sub> | P25103 | Tachykinin                 | A (Rhodopsin) | Human        | X-ray   | 6HLL | 3.3 | 10.1038/S41467-018-07939-8   |
| NK <sub>1</sub> | P25103 | Tachykinin                 | A (Rhodopsin) | Human        | X-ray   | 6HLP | 2.2 | 10.1038/S41467-018-07939-8   |
| NK <sub>1</sub> | P25103 | Tachykinin                 | A (Rhodopsin) | Human        | X-ray   | 6E59 | 3.4 | 10.1073/PNAS.1812717115      |
| US28            | P69333 | Unclassified               | A (Rhodopsin) | strain AD169 | X-ray   | 5WB1 | 3.5 | 10.7554/ELIFE.35850          |
| US28            | P69333 | Unclassified               | A (Rhodopsin) | strain AD169 | X-ray   | 5WB2 | 3.5 | 10.7554/ELIFE.35850          |
| US28            | P69333 | Unclassified               | A (Rhodopsin) | strain AD169 | X-ray   | 4XT3 | 3.8 | 10.1126/SCIENCE.AAA5026      |
| US28            | P69333 | Unclassified               | A (Rhodopsin) | strain AD169 | X-ray   | 4XT1 | 2.9 | 10.1126/SCIENCE.AAA5026      |
| OT              | P30559 | Vasopressin and oxytocin   | A (Rhodopsin) | Human        | X-ray   | 6TPK | 3.2 | 10.1126/SCIADV.ABB5419       |

|                  |        |                                |               |       |         |      |     |                                   |
|------------------|--------|--------------------------------|---------------|-------|---------|------|-----|-----------------------------------|
| CGRP             | P06881 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 7KNU | 3.5 | 10.1126/SCIENCE.ABF7258           |
| CGRP             | P06881 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 7KNT | 3.2 | 10.1126/SCIENCE.ABF7258           |
| CGRP             | P06881 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 6UVA | 2.3 | 10.1021/ACSPTSCI.9B00080          |
| CGRP             | P06881 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 6UUS | 2.4 | 10.1021/ACSPTSCI.9B00080          |
| CGRP             | P06881 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 6UUN | 3   | 10.1021/ACSPTSCI.9B00080          |
| CGRP             | P06881 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 6E3Y | 3.3 | 10.1038/S41586-018-0535-Y         |
| CT               | P30988 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 6NIY | 3.3 | 10.1021/ACSPTSCI.8B00056          |
| CT               | P30988 | Calcitonin                     | B1 (Secretin) | Human | cryo-EM | 5UZ7 | 4.1 | 10.1038/NATURE22327               |
| CRF <sub>1</sub> | P34998 | Corticotropin-releasing factor | B1 (Secretin) | Human | cryo-EM | 6PB0 | 3   | 10.1016/J.MOLCEL.2020.01.013      |
| CRF <sub>1</sub> | P34998 | Corticotropin-releasing factor | B1 (Secretin) | Human | cryo-EM | 6P9X | 2.9 | 10.1016/J.MOLCEL.2020.01.012      |
| CRF <sub>1</sub> | P34998 | Corticotropin-releasing factor | B1 (Secretin) | Human | X-ray   | 4Z9G | 3.2 | 10.2174/1874467210666170110114727 |
| CRF <sub>1</sub> | P34998 | Corticotropin-releasing factor | B1 (Secretin) | Human | X-ray   | 4K5Y | 3   | 10.1038/NATURE12357               |
| CRF <sub>2</sub> | Q13324 | Corticotropin-releasing factor | B1 (Secretin) | Human | cryo-EM | 6PB1 | 2.8 | 10.1016/J.MOLCEL.2020.01.013      |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 6WPW | 3.1 | 10.1126/SCIENCE.ABA3373           |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 6WHC | 3.4 | 10.1074/JBC.RA120.013793          |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 6LMK | 3.7 | 10.1126/SCIENCE.AAZ5346           |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 6LML | 3.9 | 10.1126/SCIENCE.AAZ5346           |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | X-ray   | 5YQZ | 3   | 10.1038/NATURE25153               |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | X-ray   | 5XEZ | 3   | 10.1038/NATURE22363               |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | X-ray   | 5XF1 | 3.2 | 10.1038/NATURE22363               |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | X-ray   | 5EE7 | 2.5 | 10.1038/NATURE17414               |
| GCGR             | P47871 | Glucagon                       | B1 (Secretin) | Human | X-ray   | 4L6R | 3.3 | 10.1038/NATURE12393               |
| GHRH             | P63092 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 7CZ5 | 2.6 | 10.1038/S41467-020-18945-0        |
| GLP-1            | P43220 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 7LCK | 3.2 | To be published                   |
| GLP-1            | P43220 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 7LCI | 2.9 | To be published                   |
| GLP-1            | P43220 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 7LCJ | 2.8 | To be published                   |
| GLP-1            | P43220 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 6XOX | 3.1 | 10.1073/PNAS.2014879117           |
| GLP-1            | P43220 | Glucagon                       | B1 (Secretin) | Human | cryo-EM | 6X18 | 2.1 | 10.1101/2020.08.16.252585         |

|                    |        |                     |               |        |         |      |     |                              |
|--------------------|--------|---------------------|---------------|--------|---------|------|-----|------------------------------|
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6X1A | 2.5 | 10.1101/2020.08.16.252585    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6X19 | 2.1 | 10.1101/2020.08.16.252585    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 7C2E | 4.2 | 10.1038/S41422-020-0384-8    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6VCB | 3.3 | 10.1038/S41589-020-0589-7    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 6LN2 | 3.2 | 10.1038/S41467-020-14934-5   |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6ORV | 3   | 10.1038/s41586-019-1902-z    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 6KJV | 2.8 | 10.1107/S2052252519013496    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 6KK7 | 3.1 | 10.1107/S2052252519013496    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 6KK1 | 2.8 | 10.1107/S2052252519013496    |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6B3J | 3.3 | 10.1038/NATURE25773          |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 5NX2 | 3.7 | 10.1038/NATURE22800          |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 5VEW | 2.7 | 10.1038/NATURE22378          |
| GLP-1              | P43220 | Glucagon            | B1 (Secretin) | Human  | X-ray   | 5VEX | 3   | 10.1038/NATURE22378          |
| GLP-1              | P63092 | Glucagon            | B1 (Secretin) | Rabbit | cryo-EM | 5VAI | 4.1 | 10.1038/NATURE22394          |
| SCTR               | P09683 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 7D3S | 2.9 | 10.1016/J.BBRC.2020.08.042   |
| SCTR               | P09683 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6WI9 | 4.3 | 10.1038/S41467-020-17791-4   |
| SCTR               | P09683 | Glucagon            | B1 (Secretin) | Human  | cryo-EM | 6WZG | 2.3 | 10.1038/S41467-020-17791-4   |
| PTH <sub>1</sub>   | Q03431 | Parathyroid hormone | B1 (Secretin) | Human  | cryo-EM | 6NBF | 3   | 10.1126/SCIENCE.AAV7942      |
| PTH <sub>1</sub>   | Q03431 | Parathyroid hormone | B1 (Secretin) | Human  | cryo-EM | 6NBI | 4   | 10.1126/SCIENCE.AAV7942      |
| PTH <sub>1</sub>   | Q03431 | Parathyroid hormone | B1 (Secretin) | Human  | cryo-EM | 6NBH | 3.5 | 10.1126/SCIENCE.AAV7942      |
| PTH <sub>1</sub>   | Q03431 | Parathyroid hormone | B1 (Secretin) | Human  | X-ray   | 6FJ3 | 2.5 | 10.1038/S41594-018-0151-4    |
| PAC <sub>1</sub>   | P41586 | VIP and PACAP       | B1 (Secretin) | Human  | cryo-EM | 6LPB | 3.9 | 10.1038/S41594-020-0386-8    |
| PAC <sub>1</sub>   | P41586 | VIP and PACAP       | B1 (Secretin) | Human  | cryo-EM | 6M1I | 3.5 | 10.1038/S41422-020-0280-2    |
| PAC <sub>1</sub>   | P41586 | VIP and PACAP       | B1 (Secretin) | Human  | cryo-EM | 6M1H | 3.6 | 10.1038/S41422-020-0280-2    |
| PAC <sub>1</sub>   | P41586 | VIP and PACAP       | B1 (Secretin) | Human  | cryo-EM | 6P9Y | 3   | 10.1016/J.MOLCEL.2020.01.012 |
| VPAC <sub>1</sub>  | P32241 | VIP and PACAP       | B1 (Secretin) | Human  | cryo-EM | 6VN7 | 3.2 | 10.1038/S41467-020-17933-8   |
| ADGRG              | P62873 | ADGRG               | B2 (Adhesion) | Human  | cryo-EM | 7D77 | 2.9 | 10.1038/S41586-020-03083-W   |
| ADGRG              | P62873 | ADGRG               | B2 (Adhesion) | Human  | cryo-EM | 7D76 | 3.1 | 10.1038/S41586-020-03083-W   |
| GABA <sub>B1</sub> | Q9UBS5 | GABA <sub>B</sub>   | C (Glutamate) | Human  | cryo-EM | 6W2Y | 3.2 | 10.1038/S41586-020-2469-4    |
| GABA <sub>B2</sub> | Q75899 | GABA <sub>B</sub>   | C (Glutamate) | Human  | cryo-EM | 7CA3 | 4.5 | 10.1016/J.JMB.2020.09.023    |

|                    |            |                        |   |                            |         |      |     |                              |
|--------------------|------------|------------------------|---|----------------------------|---------|------|-----|------------------------------|
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 7CUM | 3.5 | 10.1016/J.JMB.2020.09.023    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 7CA5 | 7.6 | 10.1016/J.JMB.2020.09.023    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 6W2X | 3.6 | 10.1038/S41586-020-2469-4    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 7C7S | 2.9 | 10.1038/S41422-020-0350-5    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 7C7Q | 3   | 10.1038/S41422-020-0350-5    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 6WIV | 3.3 | 10.1038/S41586-020-2452-0    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 6UO9 | 4.8 | 10.1038/S41586-020-2408-4    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 6UOA | 6.3 | 10.1038/S41586-020-2408-4    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 6UO8 | 3.6 | 10.1038/S41586-020-2408-4    |
| GABA <sub>B2</sub> | Q75899     | GABA <sub>B</sub>      | C (Glutamate)                                       | Human                      | cryo-EM | 6VJM | 4   | 10.1038/S41586-020-2408-4    |
| mGlu <sub>1</sub>  | Q13255     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | X-ray   | 4OR2 | 2.8 | 10.1126/SCIENCE.1249489      |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | cryo-EM | 6N51 | 4   | 10.1038/S41586-019-0881-4    |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | cryo-EM | 6N52 | 4   | 10.1038/S41586-019-0881-4    |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | X-ray   | 6FFI | 2.2 | 10.1021/ACS.JMEDCHEM.7B01722 |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | X-ray   | 6FFH | 2.7 | 10.1021/ACS.JMEDCHEM.7B01722 |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | X-ray   | 5CGC | 3.1 | 10.1021/ACS.JMEDCHEM.5B00892 |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)                                       | Human                      | X-ray   | 5CGD | 2.6 | 10.1021/ACS.JMEDCHEM.5B00892 |
| mGlu <sub>5</sub>  | P41594     | Metabotropic glutamate | C (Glutamate)<br>D1 (Ste2-like fungal<br>pheromone) | Human                      | X-ray   | 4OO9 | 2.6 | 10.1038/NATURE13396          |
| Ste2               | P0C139     | STE2                   |   | strain ATCC 204508 / S288c | cryo-EM | 7AD3 | 3.5 | 10.1038/S41586-020-2994-1    |
| FZD <sub>4</sub>   | Q9ULV1     | Frizzled               | F (Frizzled)  | Human                      | X-ray   | 6BD4 | 2.4 | 10.1038/S41586-018-0447-X    |
| FZD <sub>5</sub>   | Q9ULV1     | Frizzled               | F (Frizzled)  | Human                      | cryo-EM | 6WW2 | 3.7 | 10.7554/ELIFE.58464          |
| SMO                | A0A1L8GTP2 | Frizzled               | F (Frizzled)  | African clawed frog        | X-ray   | 6D32 | 3.8 | 10.1016/J.CELL.2018.04.029   |
| SMO                | A0A1L8GTP2 | Frizzled               | F (Frizzled)  | African clawed frog        | X-ray   | 6D35 | 3.9 | 10.1016/J.CELL.2018.04.029   |
| SMO                | Q99835     | Frizzled               | F (Frizzled)  | Human                      | cryo-EM | 6XBJ | 3.9 | 10.1038/S41589-020-0646-2    |
| SMO                | Q99835     | Frizzled               | F (Frizzled)  | Human                      | cryo-EM | 6XBL | 3.9 | 10.1038/S41589-020-0646-2    |
| SMO                | Q99835     | Frizzled               | F (Frizzled)  | Human                      | cryo-EM | 6XBK | 3.2 | 10.1038/S41589-020-0646-2    |
| SMO                | Q99835     | Frizzled               | F (Frizzled)  | Human                      | cryo-EM | 6XBM | 3.2 | 10.1038/S41589-020-0646-2    |
| SMO                | Q99835     | Frizzled               | F (Frizzled)  | Human                      | cryo-EM | 6OT0 | 3.9 | 10.1038/S41586-019-1286-0    |
| SMO                | Q99835     | Frizzled               | F (Frizzled)  | Human                      | X-ray   | 5V57 | 3   | 10.1038/NCOMMS15383          |

|     |        |          |              |       |       |      |     |                           |
|-----|--------|----------|--------------|-------|-------|------|-----|---------------------------|
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 5V56 | 2.9 | 10.1038/NCOMMS15383       |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 5L7D | 3.2 | 10.1038/NATURE18934       |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 5L7I | 3.3 | 10.1038/NATURE18934       |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 4QIM | 2.6 | 10.1038/NCOMMS5355        |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 4QIN | 2.6 | 10.1038/NCOMMS5355        |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 4O9R | 3.2 | 10.1038/NCOMMS4309        |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 4N4W | 2.8 | 10.1038/NCOMMS5355        |
| SMO | Q99835 | Frizzled | F (Frizzled) | Human | X-ray | 4JKV | 2.5 | 10.1038/NATURE12167       |
| SMO | P56726 | Frizzled | F (Frizzled) | Mouse | X-ray | 6O3C | 2.8 | 10.1038/S41586-019-1355-4 |

<sup>a</sup> Source: GPCRdb (Pandy-Szekeres et al., 2018), Accessed 2021-04-01

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