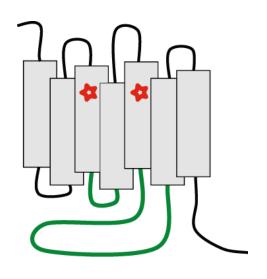
Two point mutations convert native receptor into DREADD



- hM3D(Gq) is Gq coupled DREADD. It is derived from human muscarinic receptor M3 sequence with two point mutations (Y149C, A239G)
- hM4D(Gi) is Gi coupled DREADD. It is derived from human muscarinic receptor M4 sequence with two point mutations (Y113C, A203G)
- rM3D(Gs) is Gs coupled DREADD. It is derived from rat muscarinic receptor M3 sequence with replacement of i2 and i3 loop with turkey β₁ AR sequence. It also contains two point mutations (Y148C, A238G).