

Here's a useful list of commonly studied GPCRs that **naturally couple to Gai/o** and thus typically yield better results with the **Gaqi9** chimera:

GPCRs recommended for Gai9 assays:

1. Chemokine Receptors:

- **CCR family:** CCR1–CCR10
- **CXCR family:** CXCR1–CXCR7
- **XCR1, XCR2**
- **CX3CR1**

2. Opioid Receptors:

- **Mu (μ)-opioid receptor (OPRM1)**
- **Delta (δ)-opioid receptor (OPRD1)**
- **Kappa (κ)-opioid receptor (OPRK1)**
- **Nociceptin receptor (OPRL1)**

3. Cannabinoid Receptors:

- **CB1 (CNR1)**
- **CB2 (CNR2)**

4. Somatostatin Receptors (SSTRs):

- **SSTR1–5**

5. Adrenergic α 2 Receptors:

- **α 2A-, α 2B-, α 2C-Adrenergic receptors (ADRA2A, ADRA2B, ADRA2C)**

6. Muscarinic Acetylcholine Receptors (Gi/o subtype):

- **M2, M4 (CHRM2, CHRM4)**

7. Serotonin (5-HT) Receptors (Gi subtype):

- **5-HT1A, 1B, 1D, 1E, 1F, 5A receptors (HTR1A–1F, HTR5A)**

8. Dopamine Receptors (Gi subtype):

- **D2, D3, D4 receptors (DRD2, DRD3, DRD4)**

9. Melatonin Receptors:

- **MT1, MT2 (MTNR1A, MTNR1B)**

10. GABA_B Receptors:

- **GABA_B1, GABA_B2 (GABBR1, GABBR2)**

11. Adenosine Receptors (Gi subtype):

- **A1, A3 (ADORA1, ADORA3)**

12. Prostaglandin Receptors (Gi subtype):

- **EP3 receptor (PTGER3)**

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