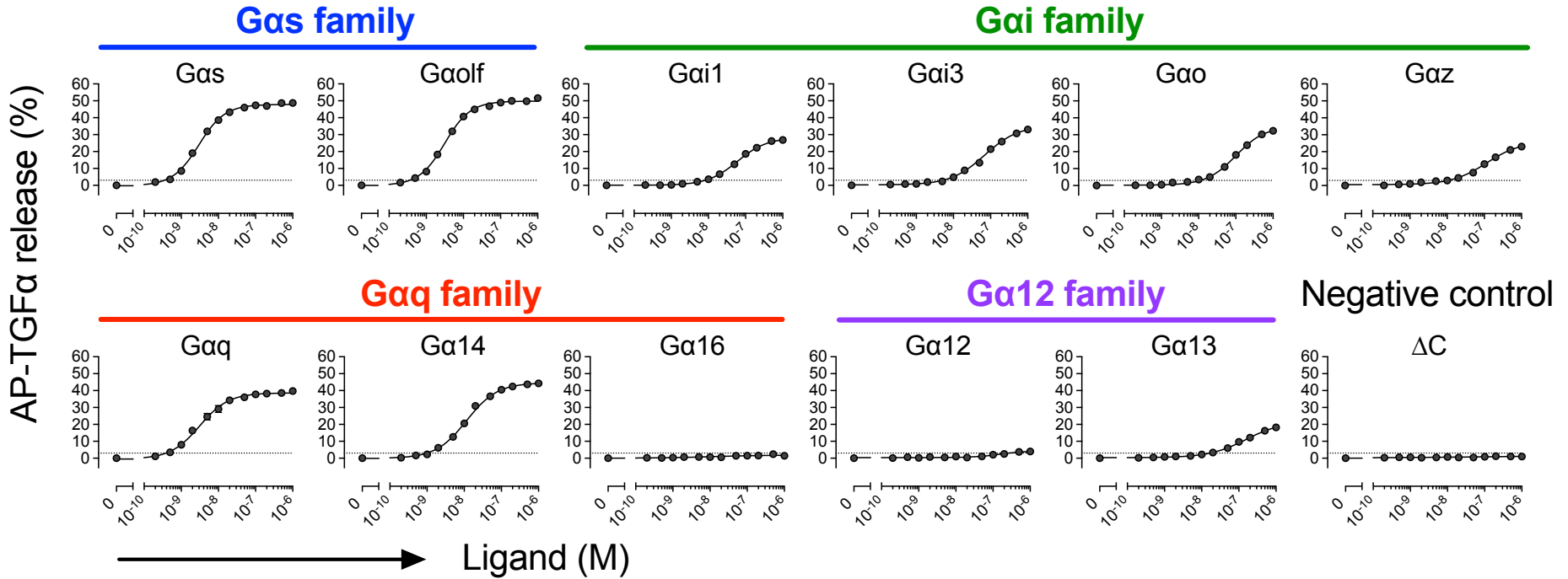


GPCR gene symbol: *ADCYAP1R1*

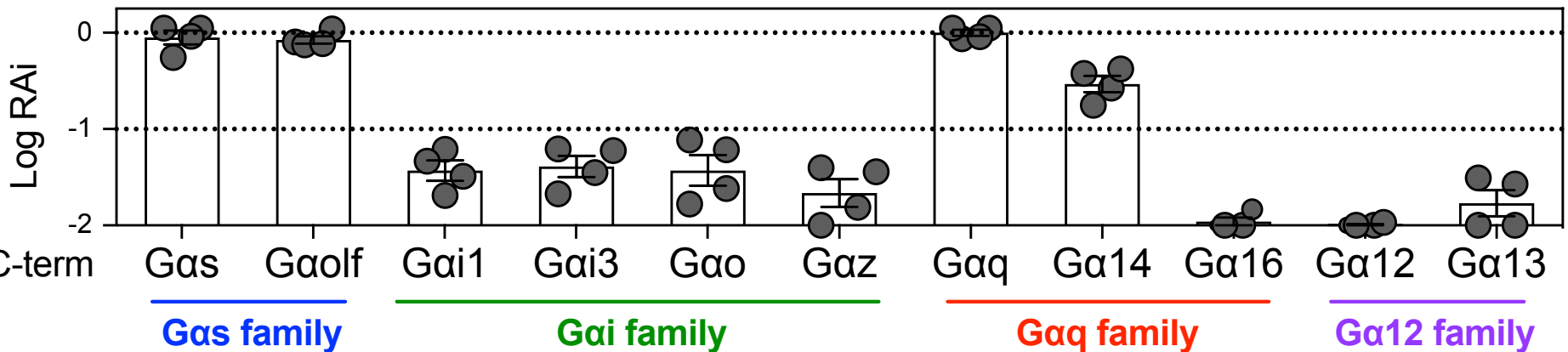
GPCR name: PAC1

Tested ligand: PACAP27

C-terminal chimera co-expression



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADORA1*

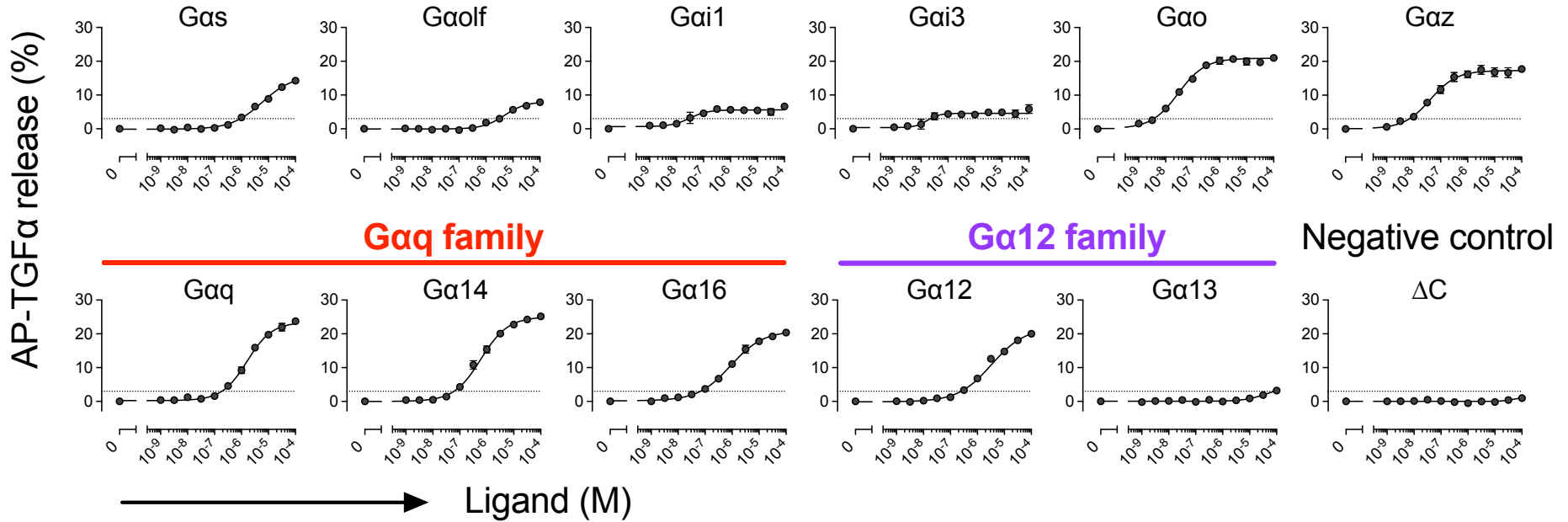
GPCR name: A1

Tested ligand: Adenosine

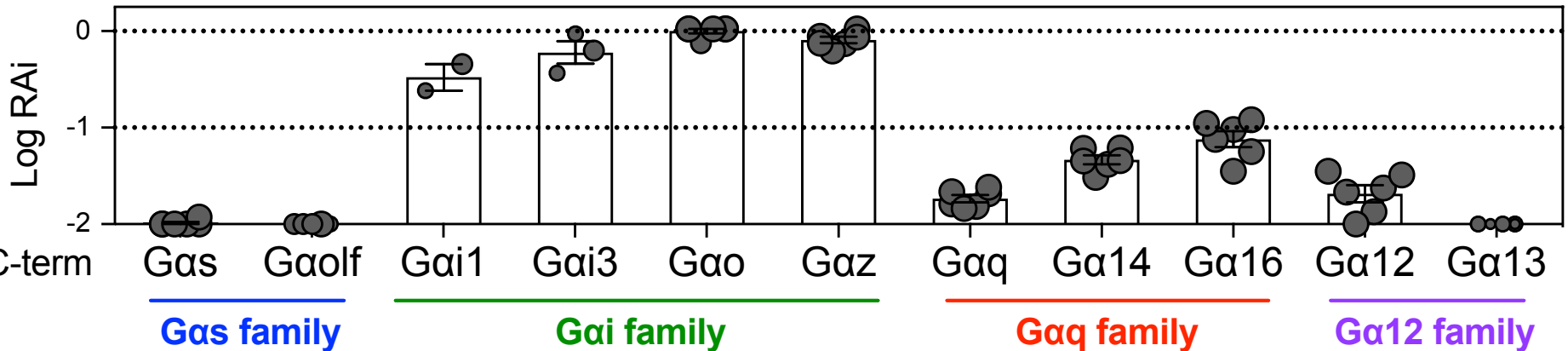
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADORA2A*

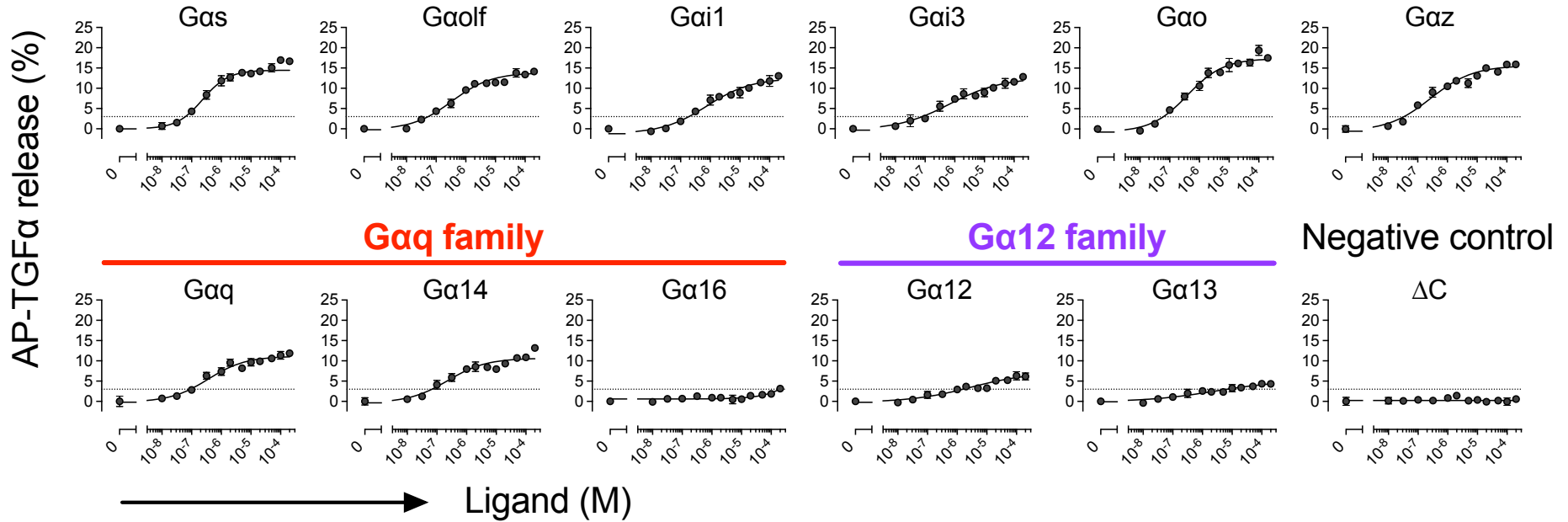
GPCR name: A2A

Tested ligand: Adenosine

C-terminal chimera co-expression

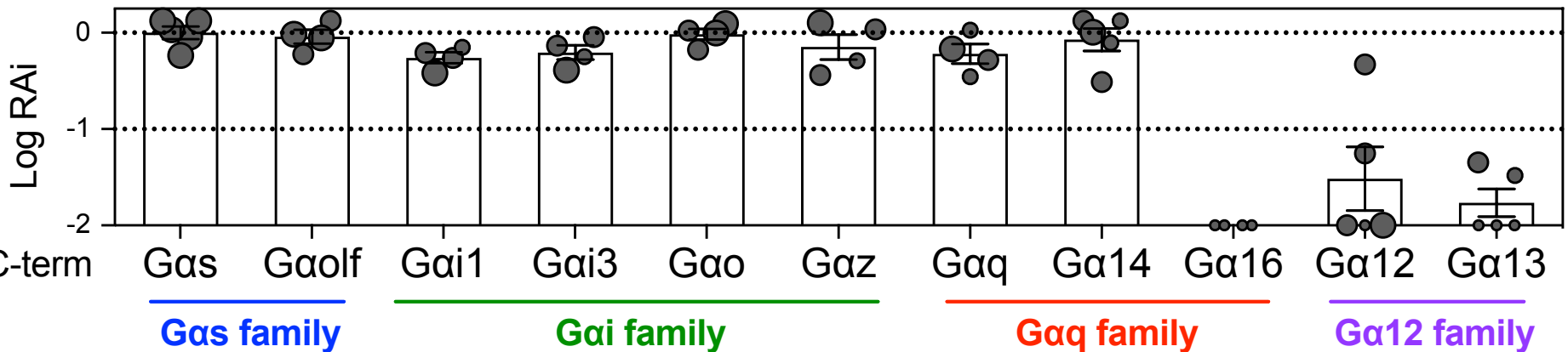
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADORA2B*

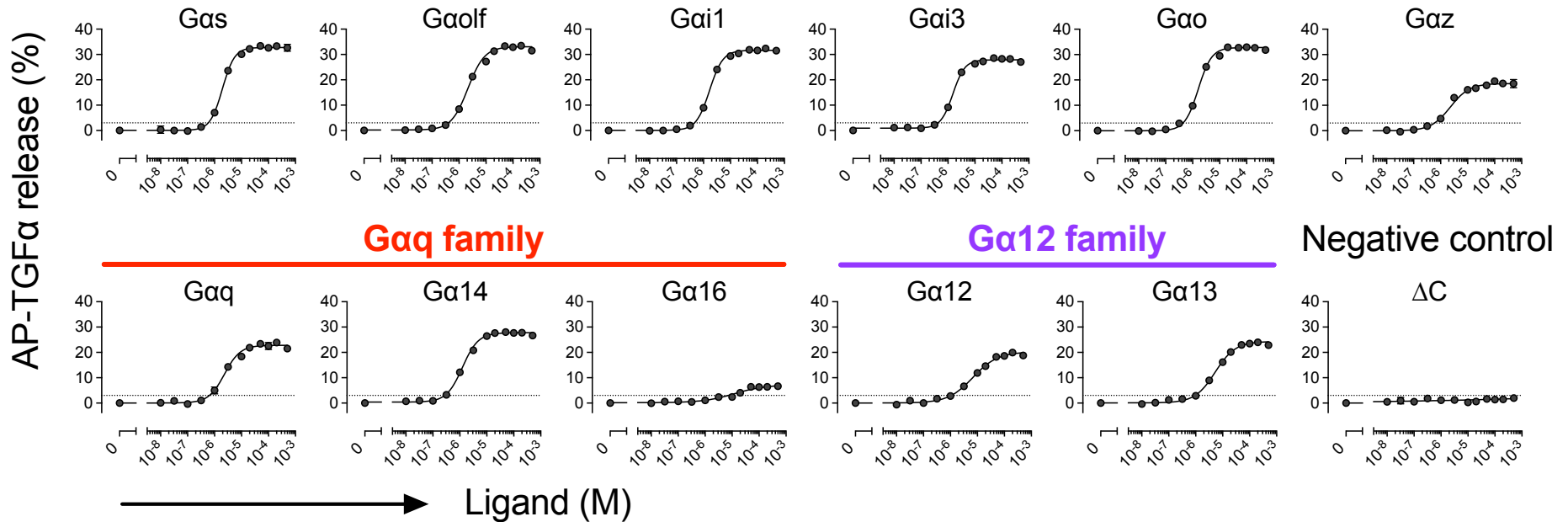
GPCR name: A2B

Tested ligand: Adenosine

C-terminal chimera co-expression

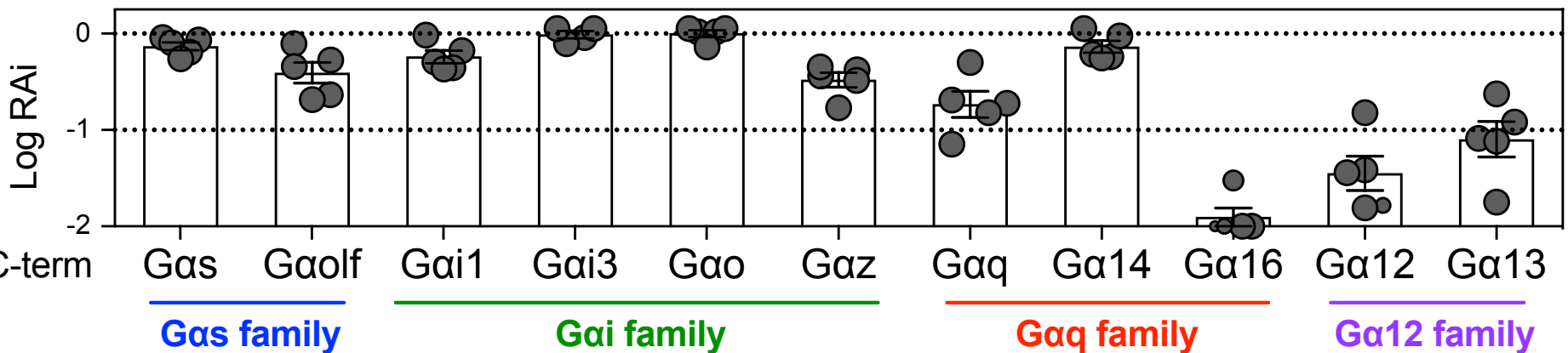
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADORA3*

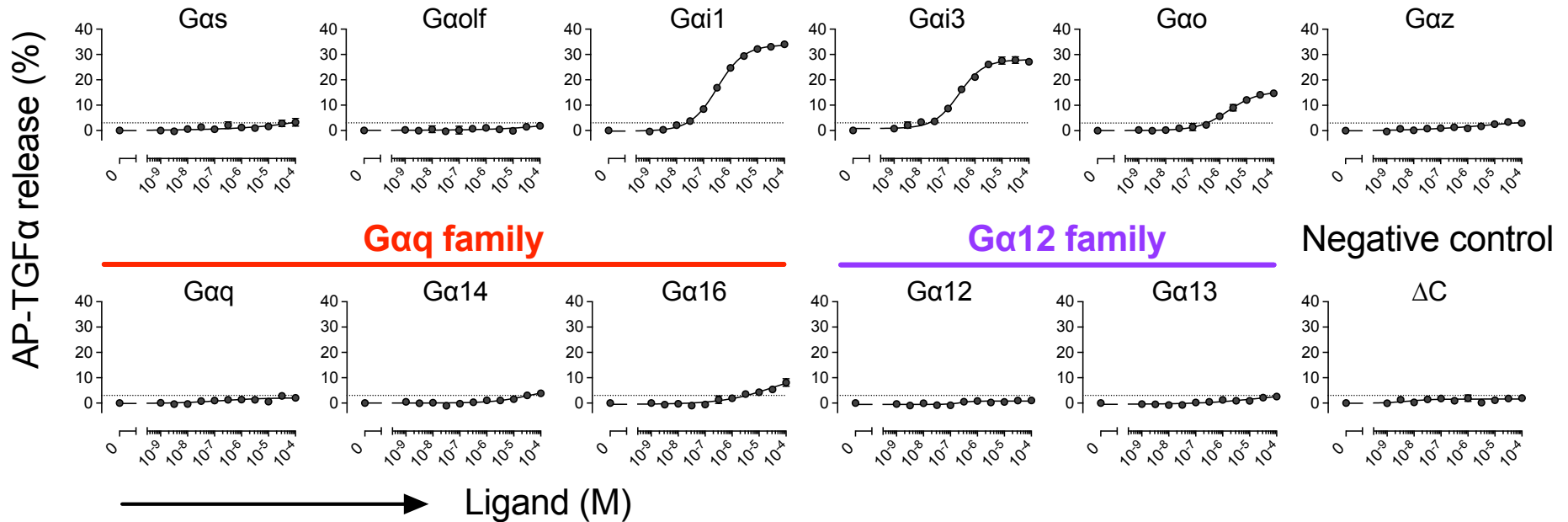
GPCR name: A3

Tested ligand: Adenosine

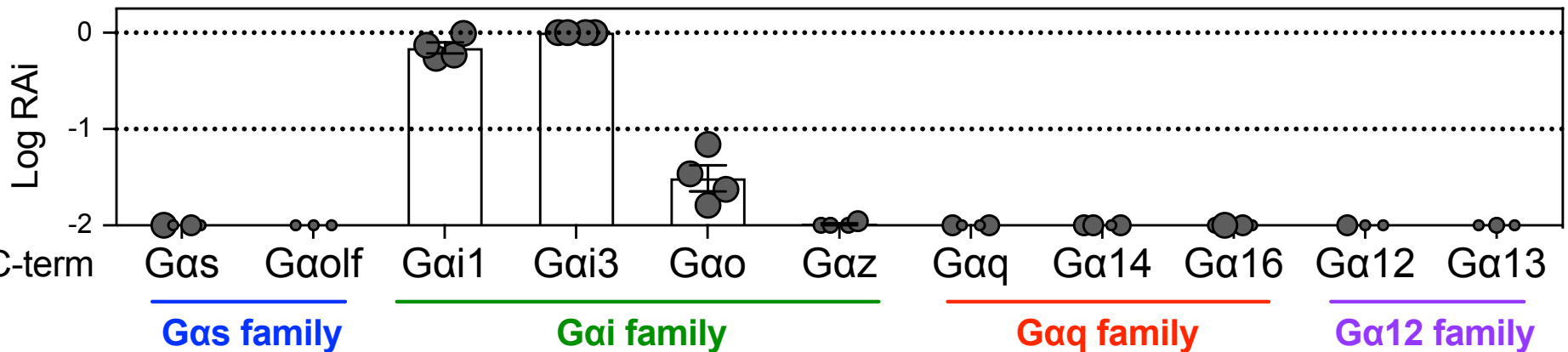
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRA1A*

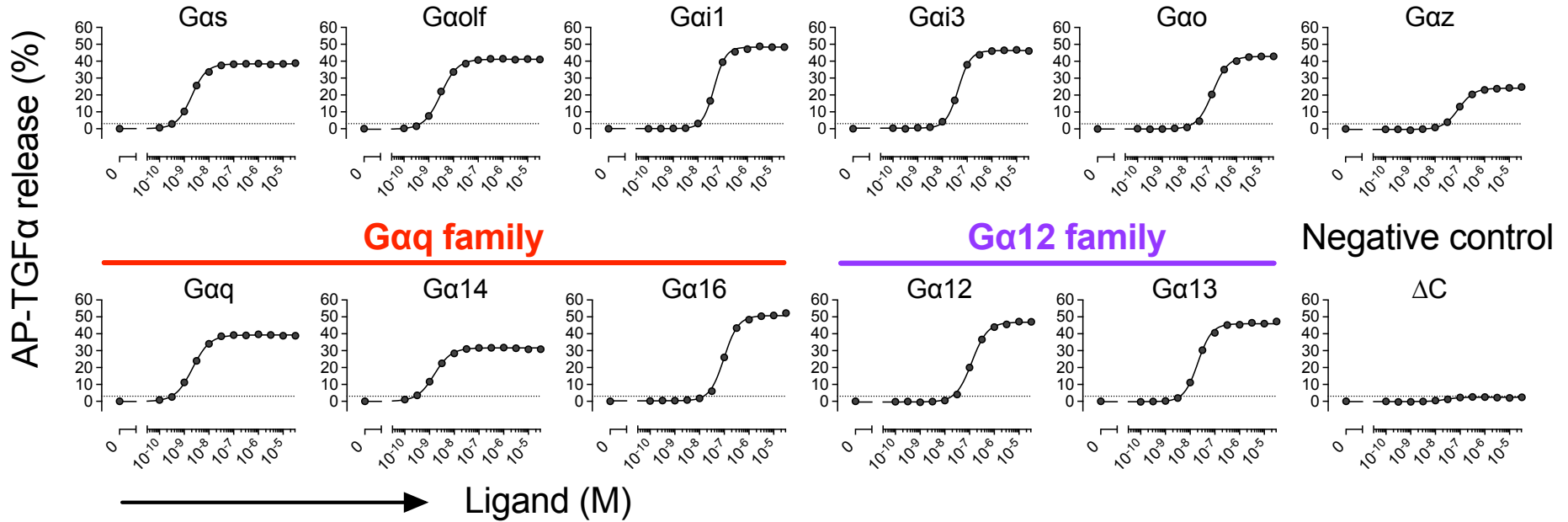
GPCR name: $\alpha 1A$

Tested ligand: Noradrenaline

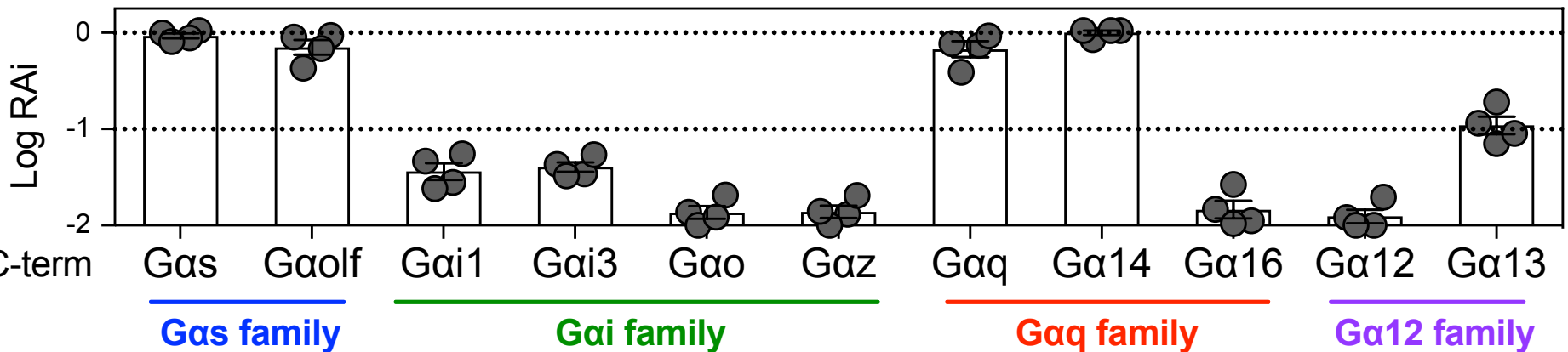
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRA1B*

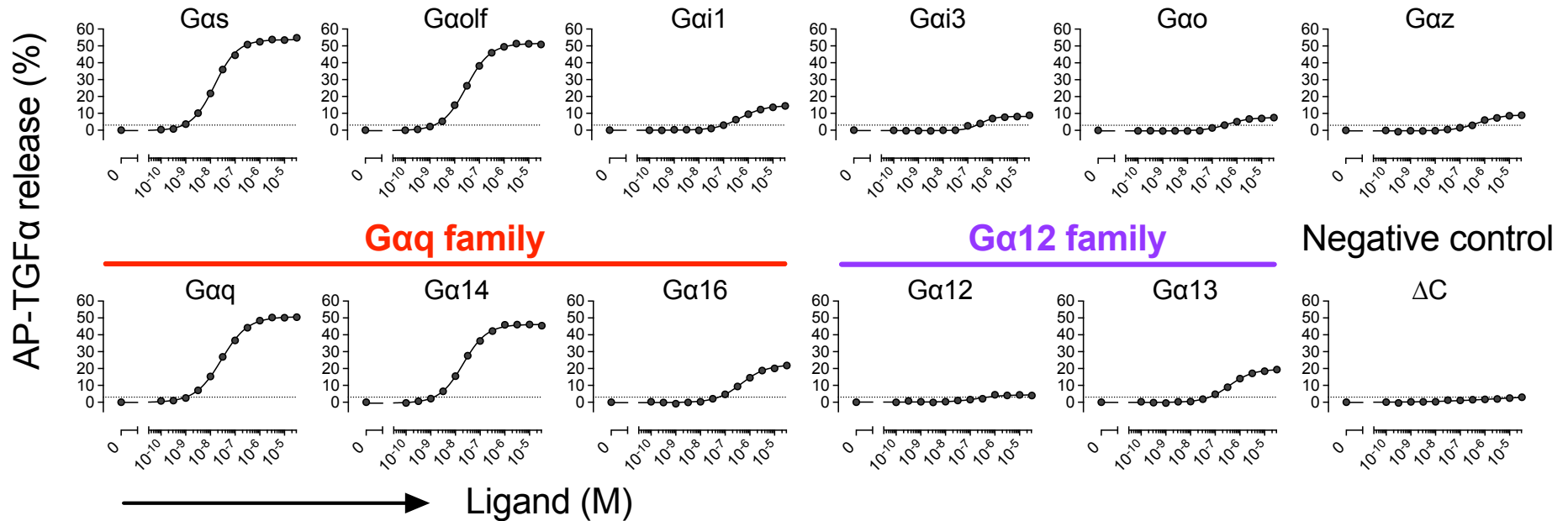
GPCR name: $\alpha 1B$

Tested ligand: Noradrenaline

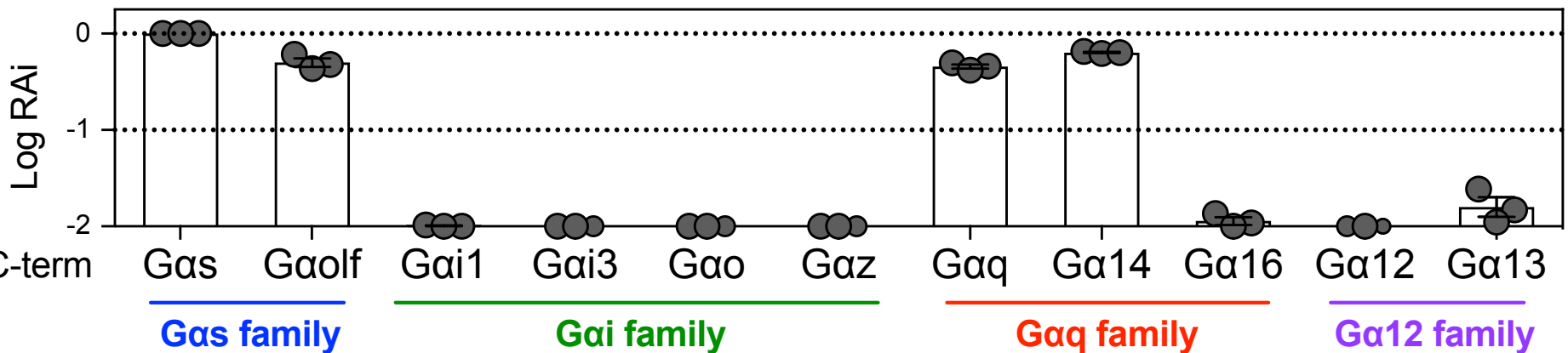
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRA1D*

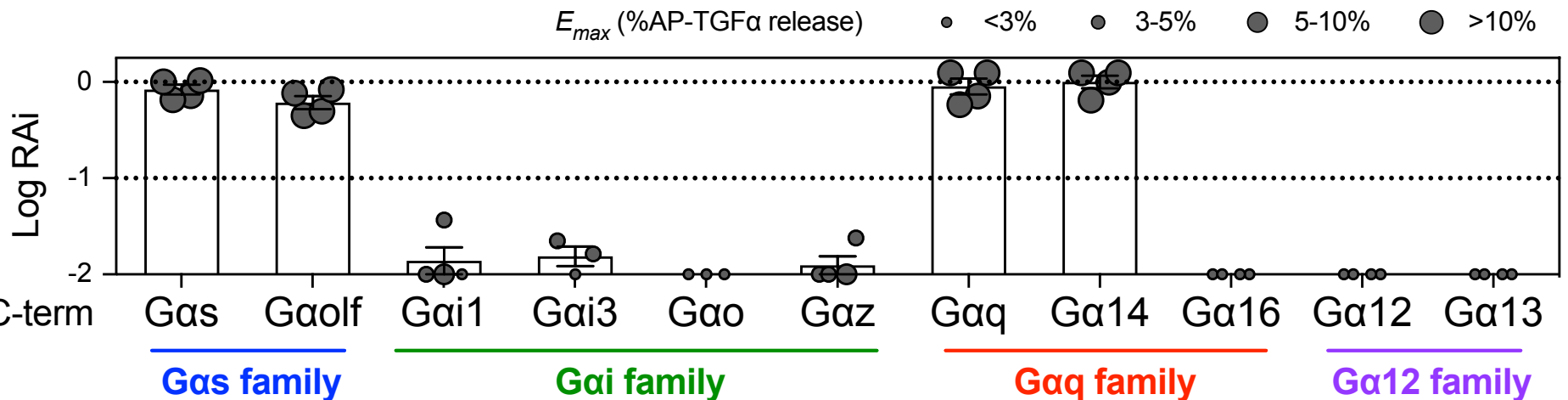
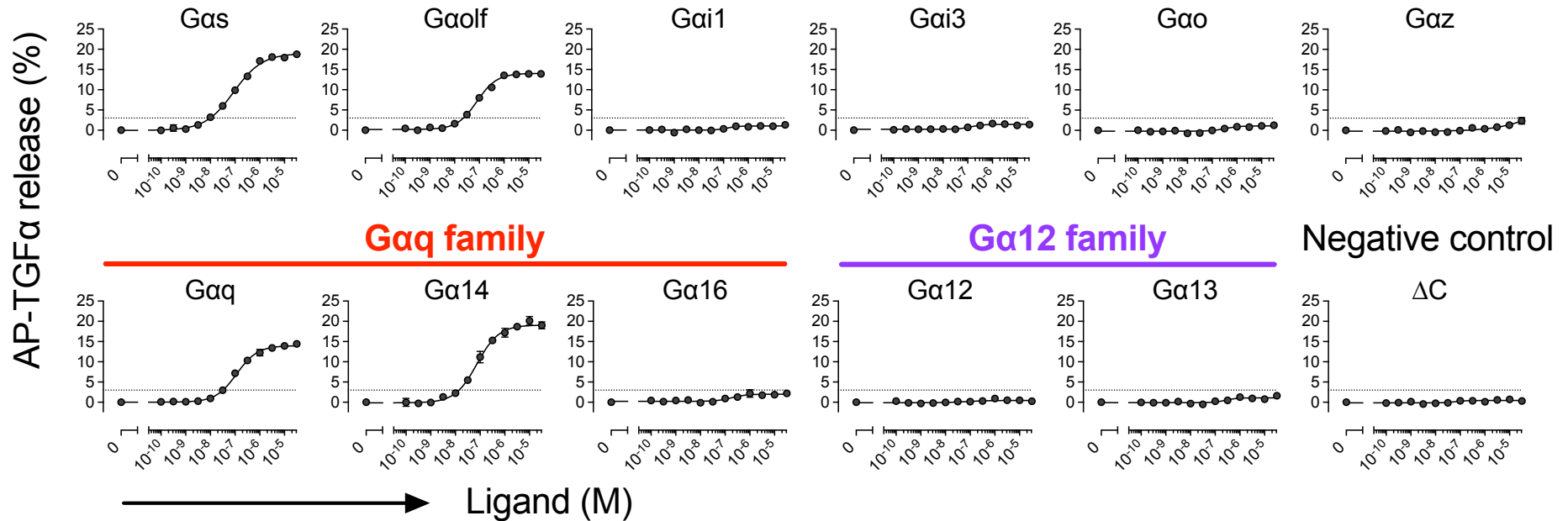
GPCR name: $\alpha 1D$

Tested ligand: Noradrenaline

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *ADRA2A*

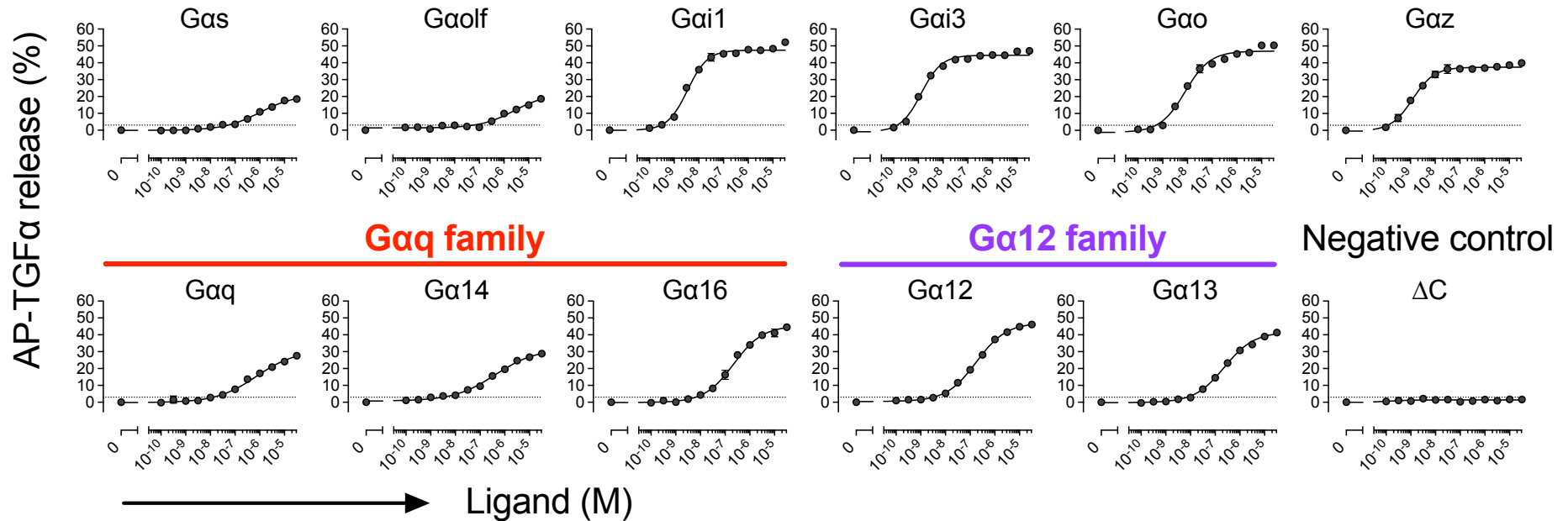
GPCR name: $\alpha 2A$

Tested ligand: Noradrenaline

C-terminal chimera co-expression

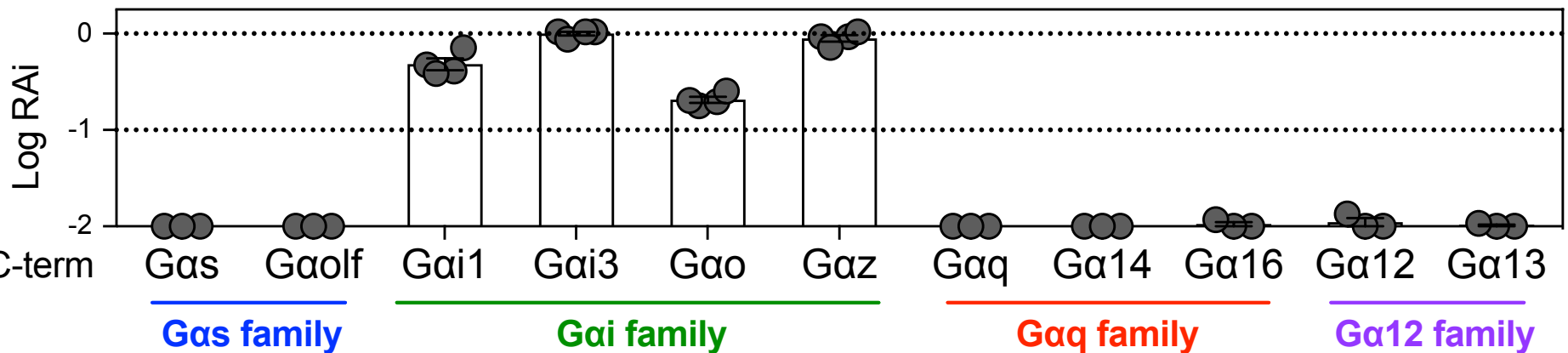
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRA2B*

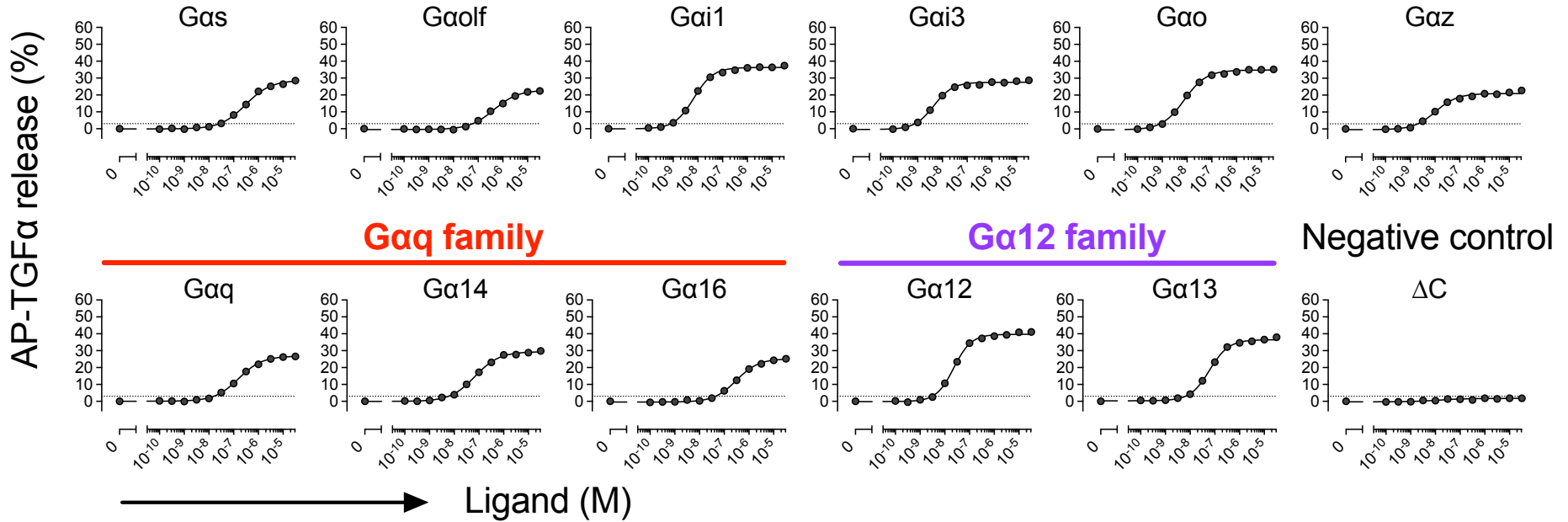
GPCR name: $\alpha 2B$

Tested ligand: Noradrenaline

C-terminal chimera co-expression

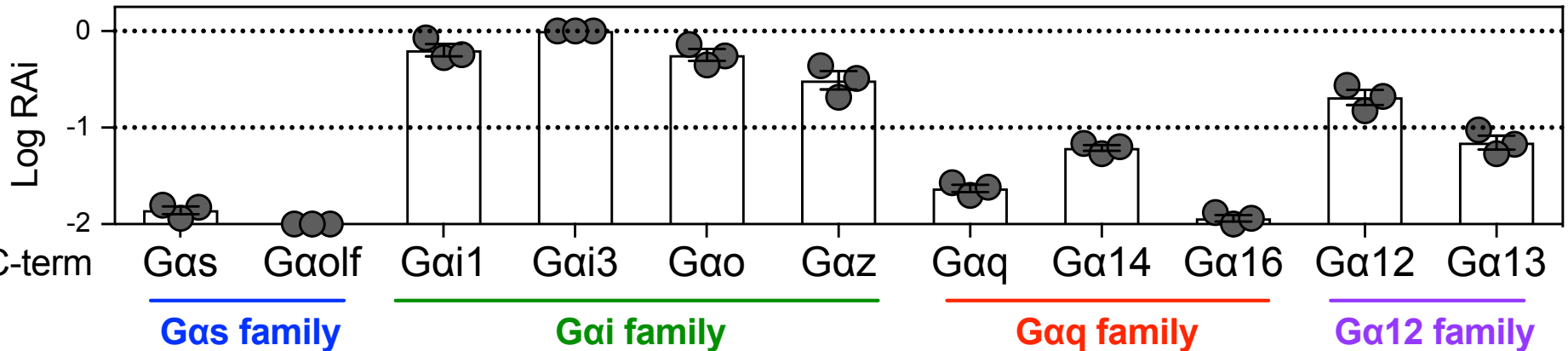
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRA2C*

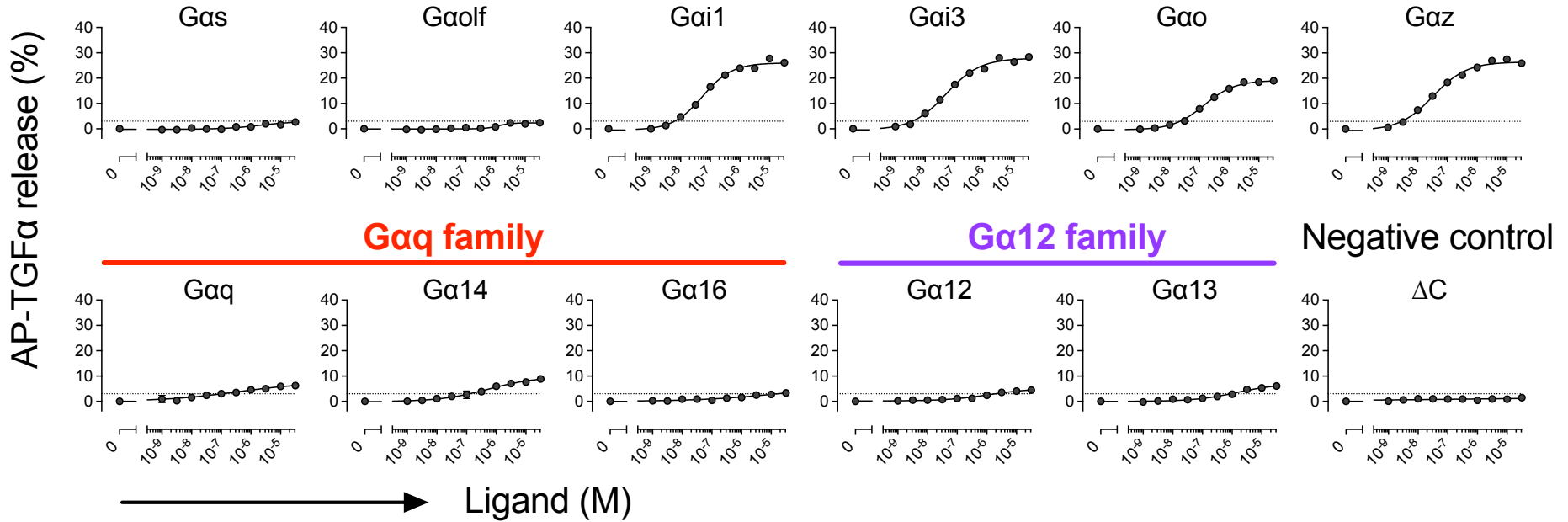
GPCR name: $\alpha 2C$

Tested ligand: Noradrenaline

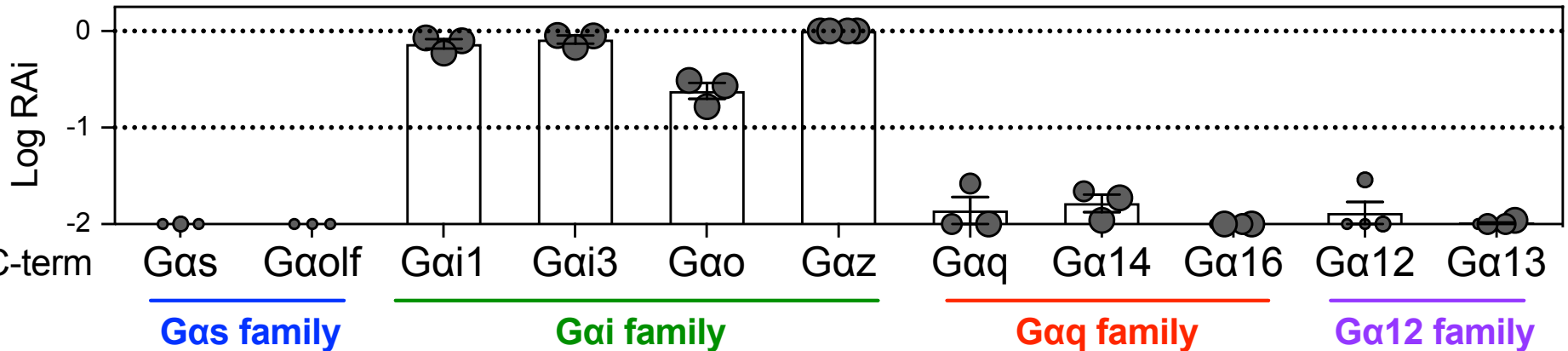
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRB1*

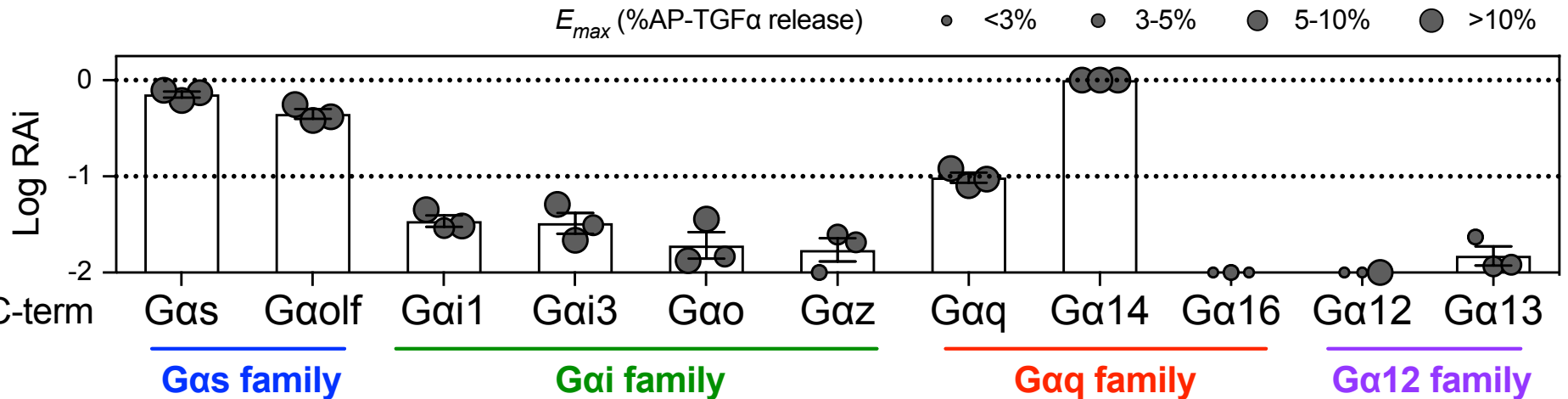
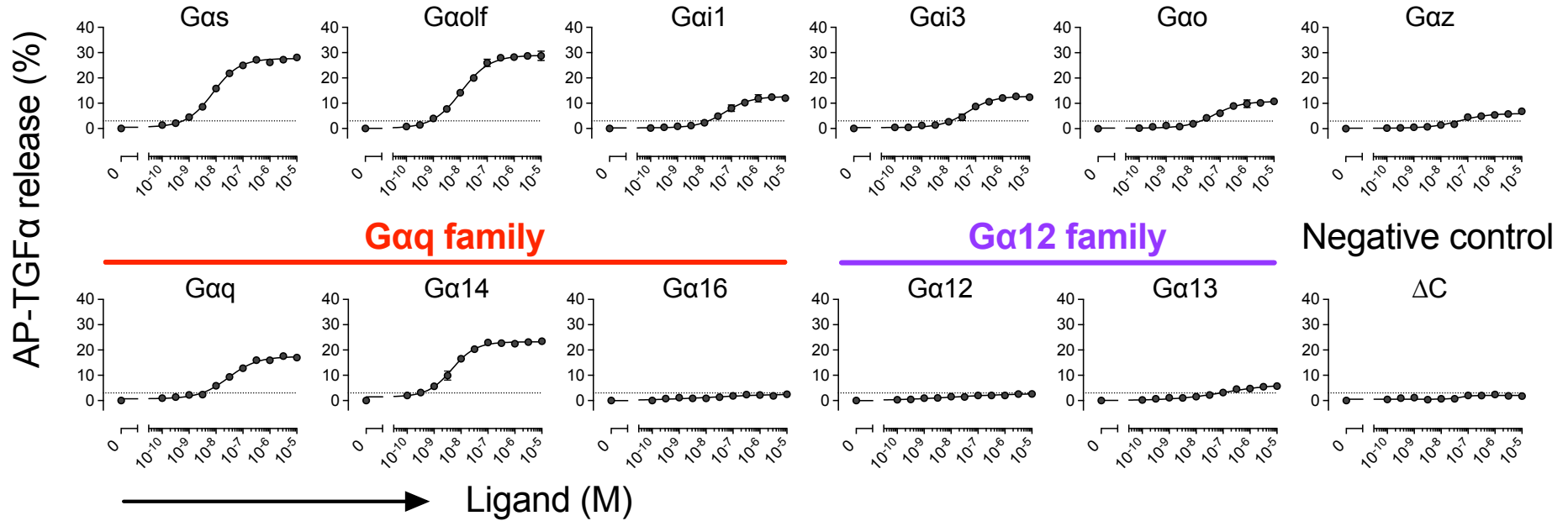
GPCR name: $\beta 1$

Tested ligand: Isoproterenol

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *ADRB2*

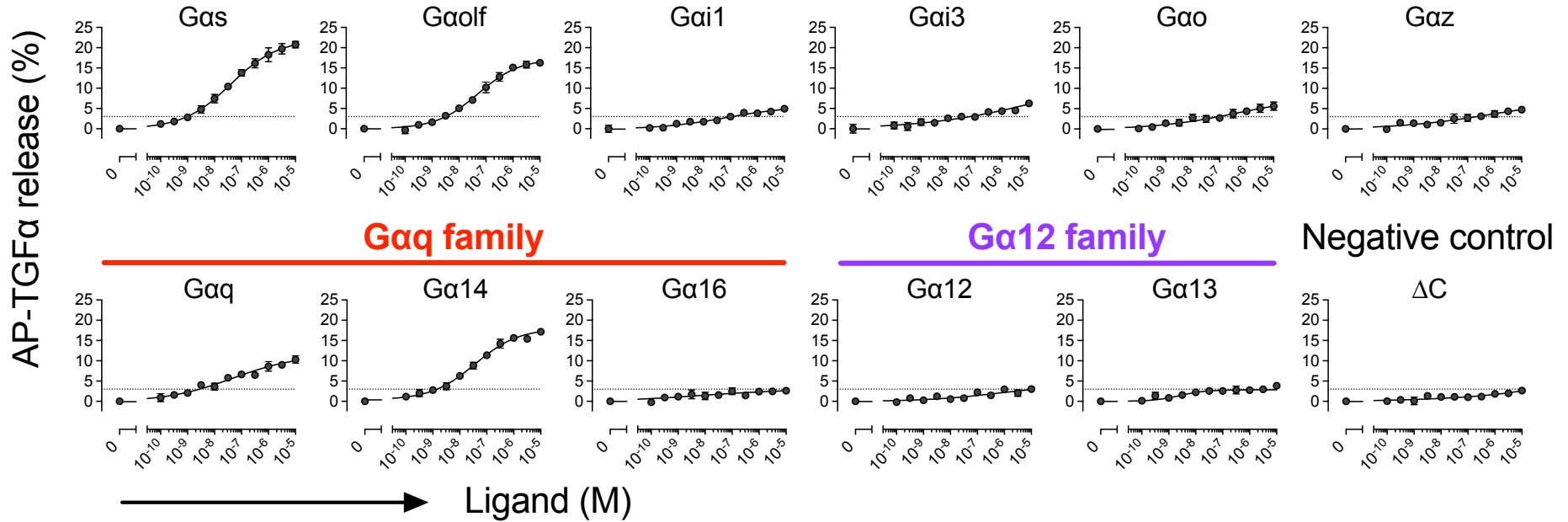
GPCR name: $\beta 2$

Tested ligand: Isoproterenol

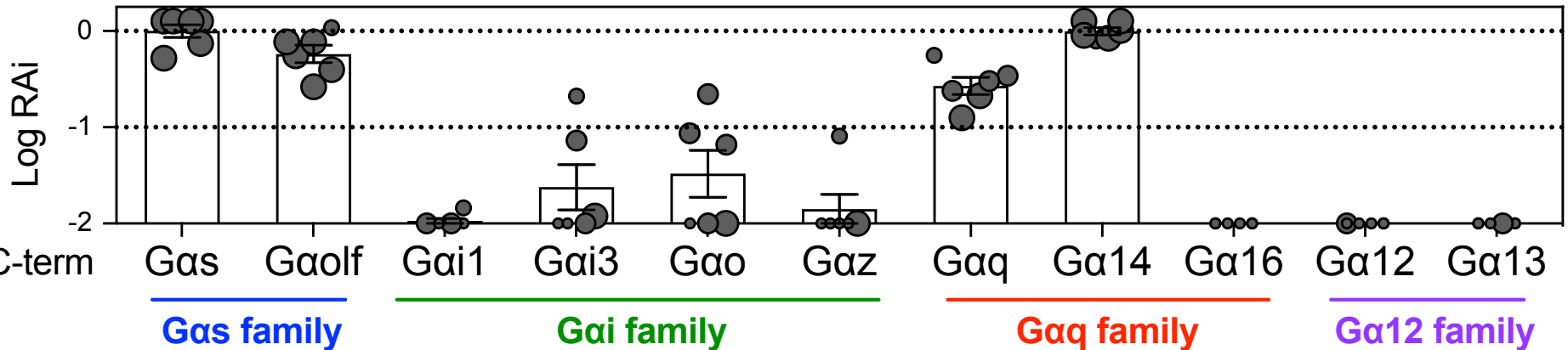
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *ADRB3*

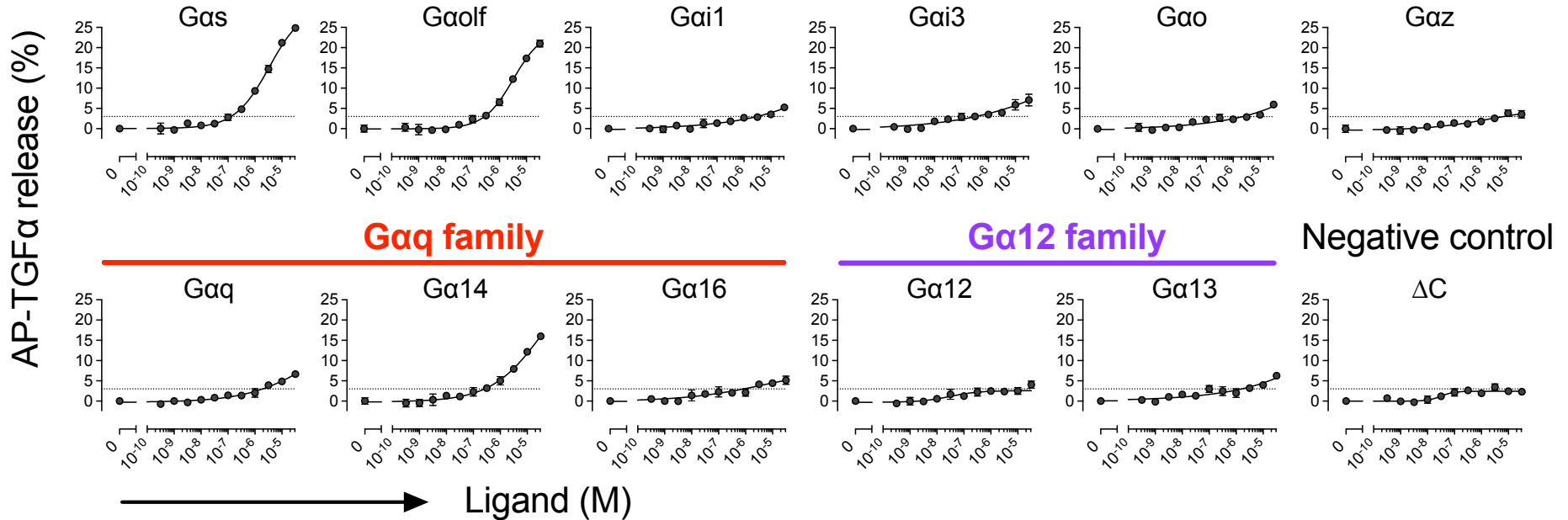
GPCR name: $\beta 3$

Tested ligand: Isoproterenol

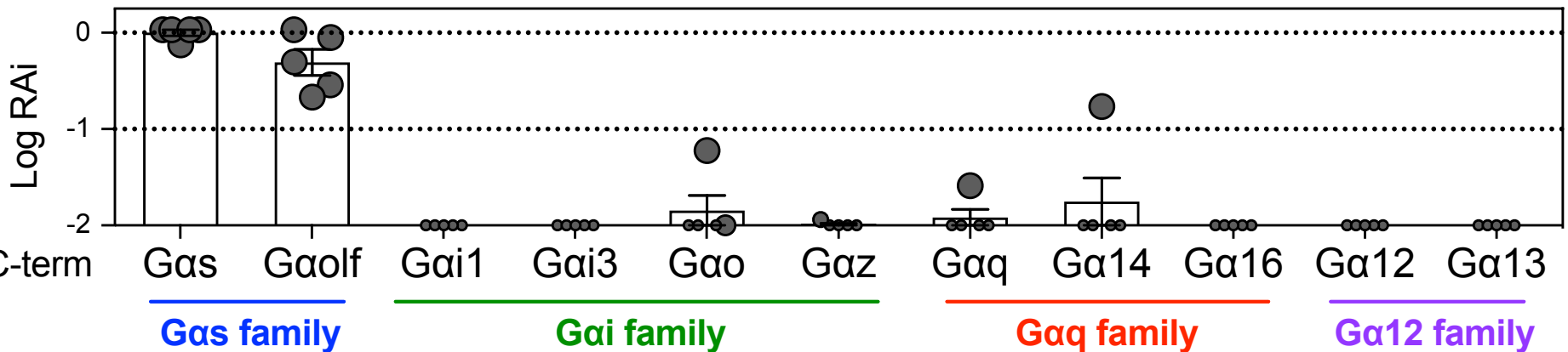
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *AGTR1*

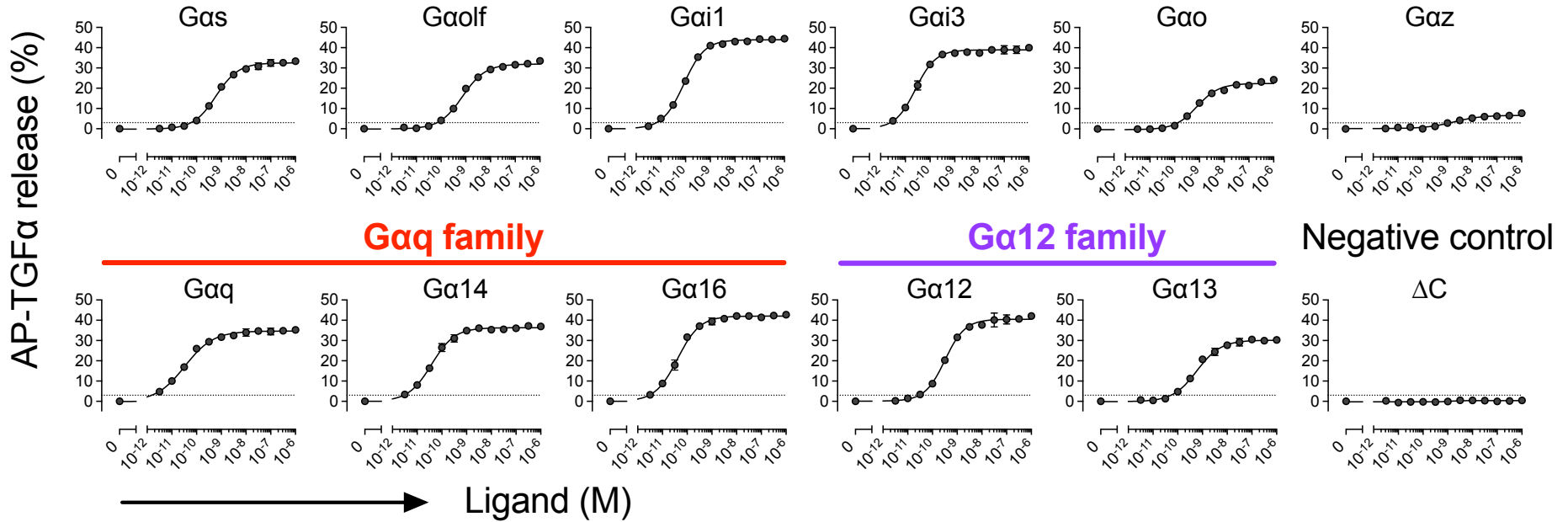
GPCR name: AT1

Tested ligand: Angiotensin II

C-terminal chimera co-expression

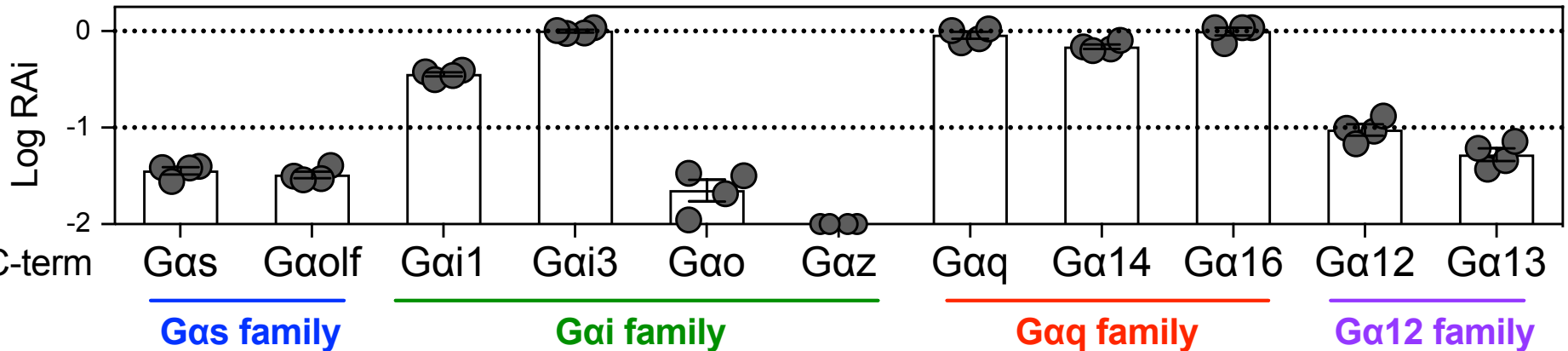
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *APLNR*

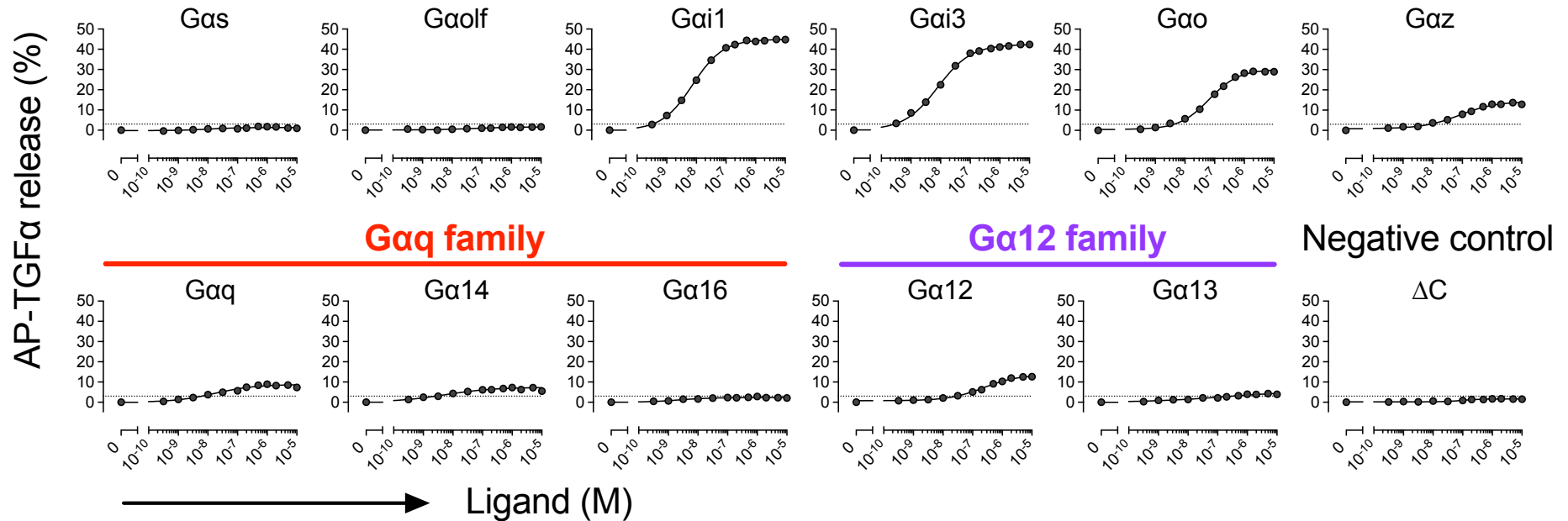
GPCR name: APLNR

Tested ligand: Apelin-13

C-terminal chimera co-expression

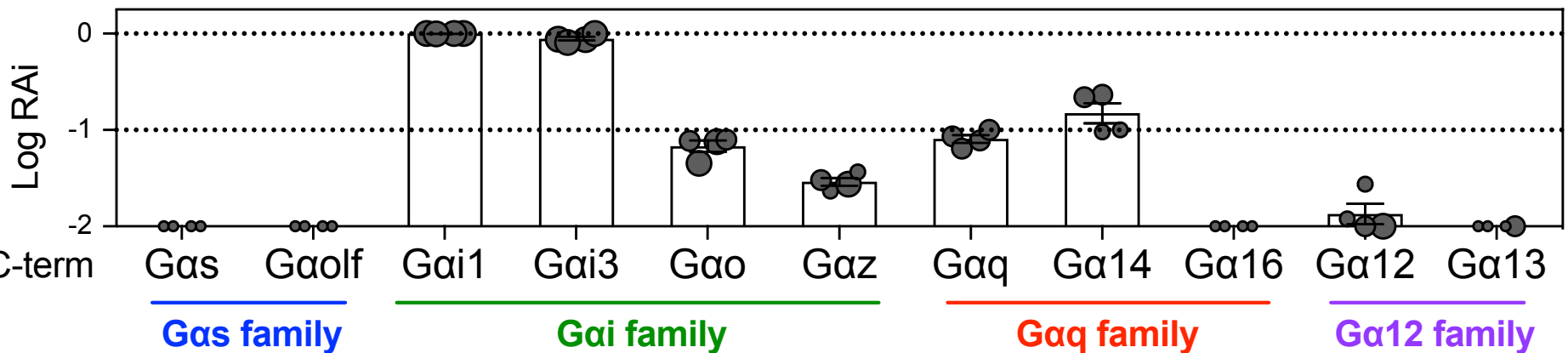
Gas family

Gai family



E_{max} (%AP-TGFα release)

• <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *AVPR1A*

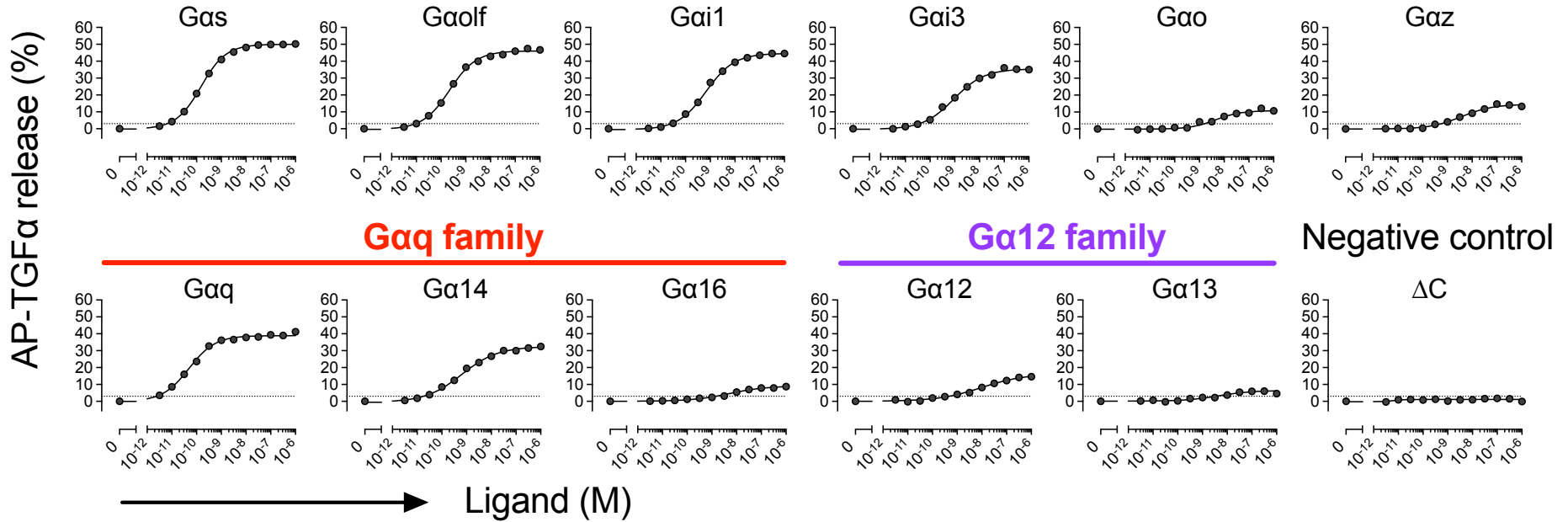
GPCR name: V1A

Tested ligand: Arginine vasopressin

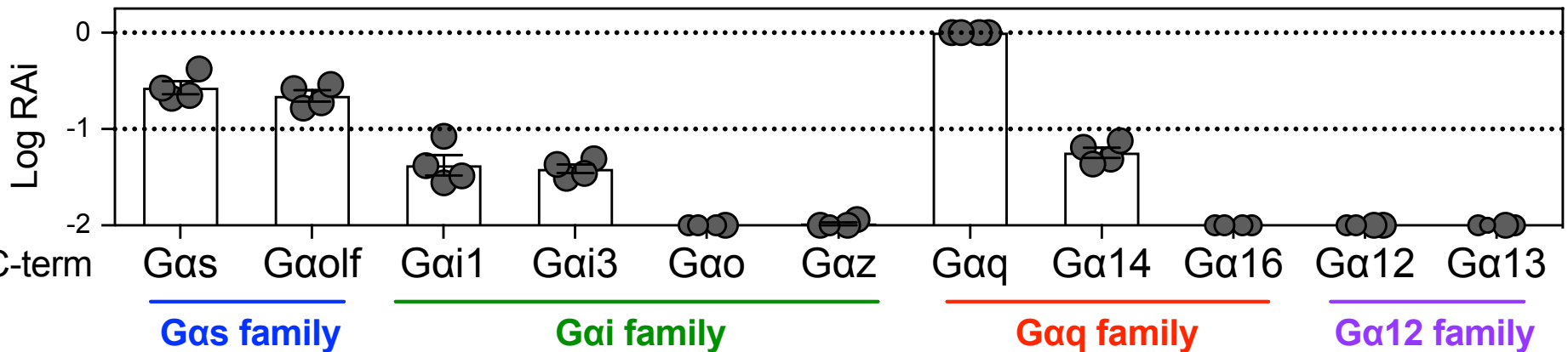
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *AVPR1B*

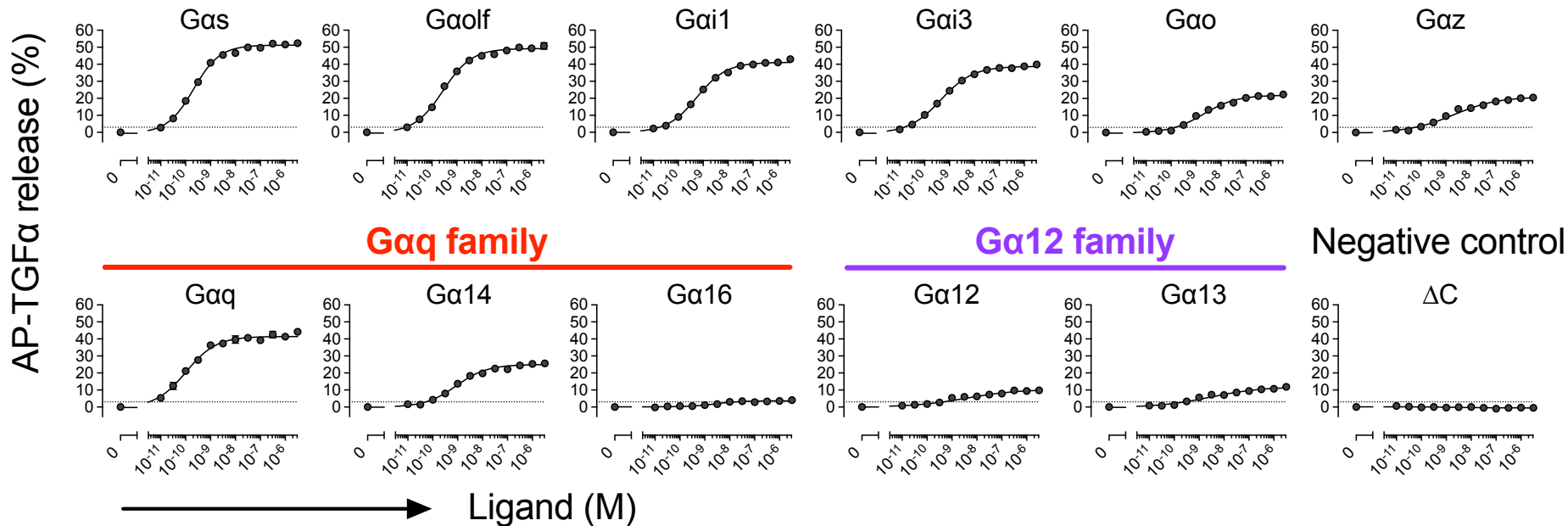
GPCR name: V1B

Tested ligand: Arginine vasopressin

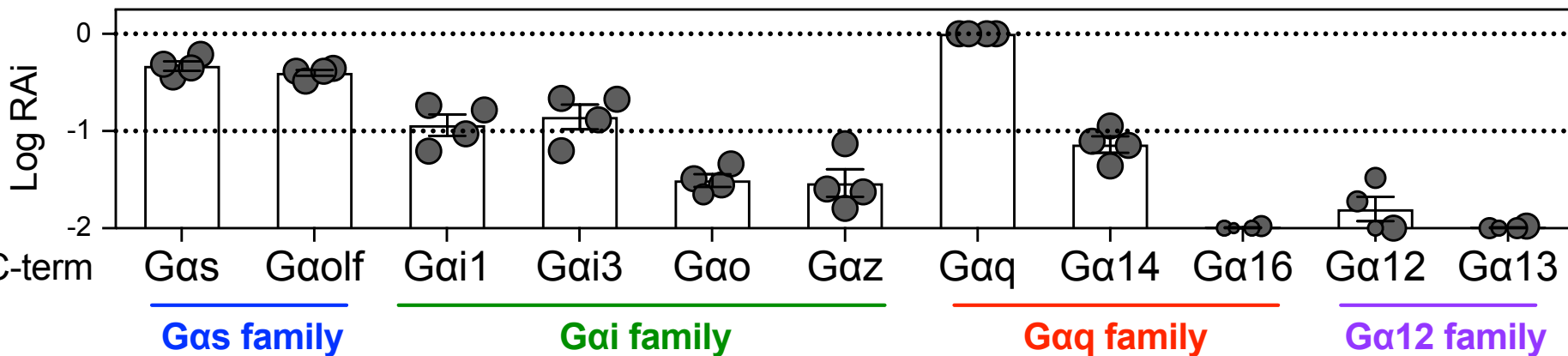
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: AVPR2

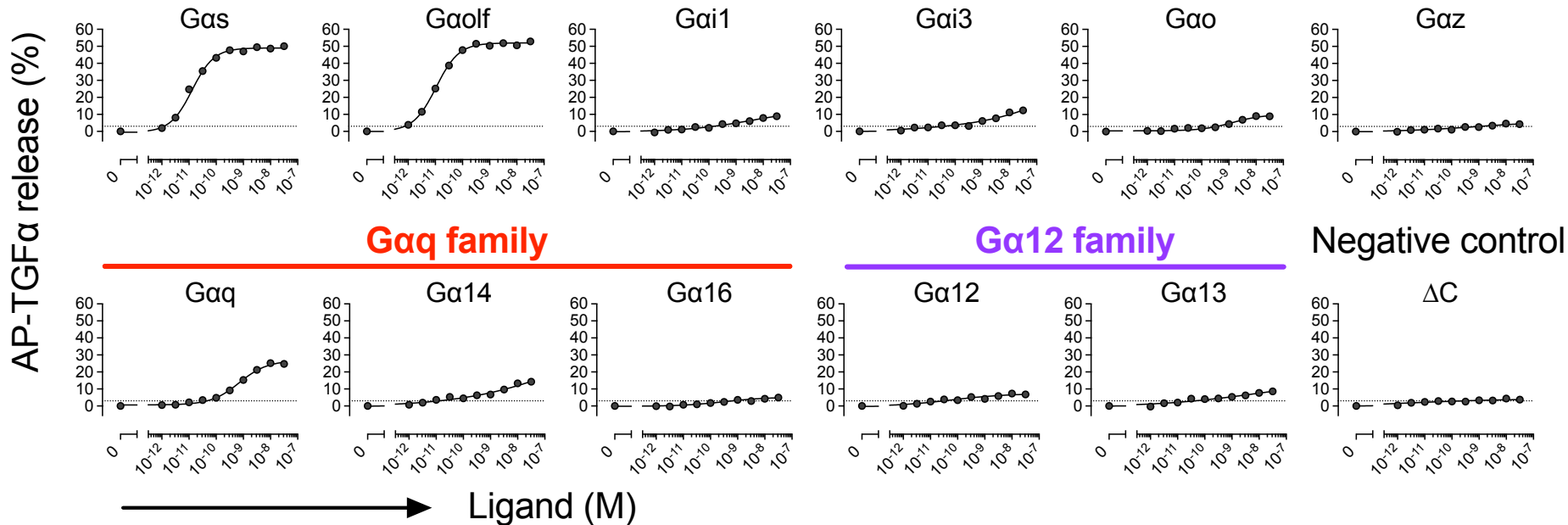
GPCR name: V2

Tested ligand: Arginine vasopressin

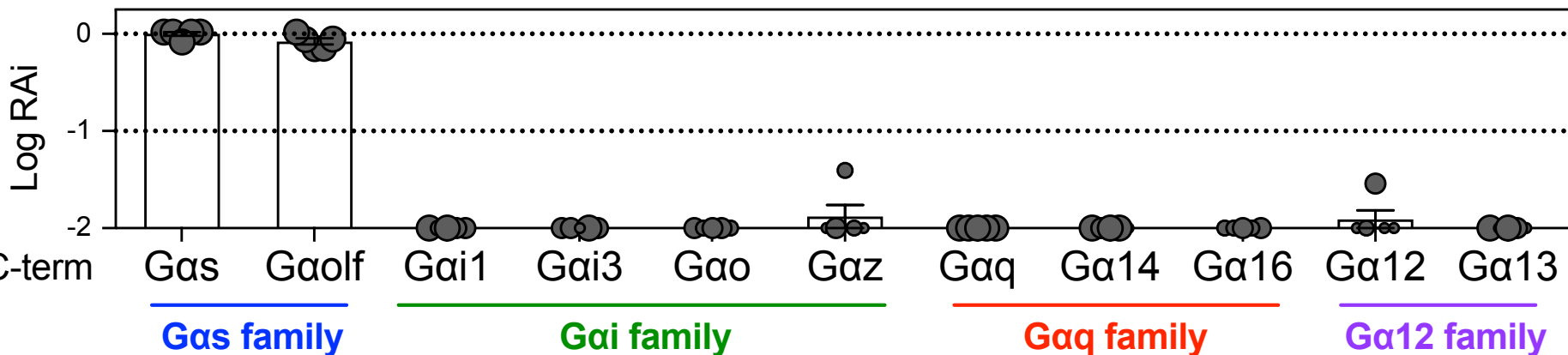
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *BDKRB1*

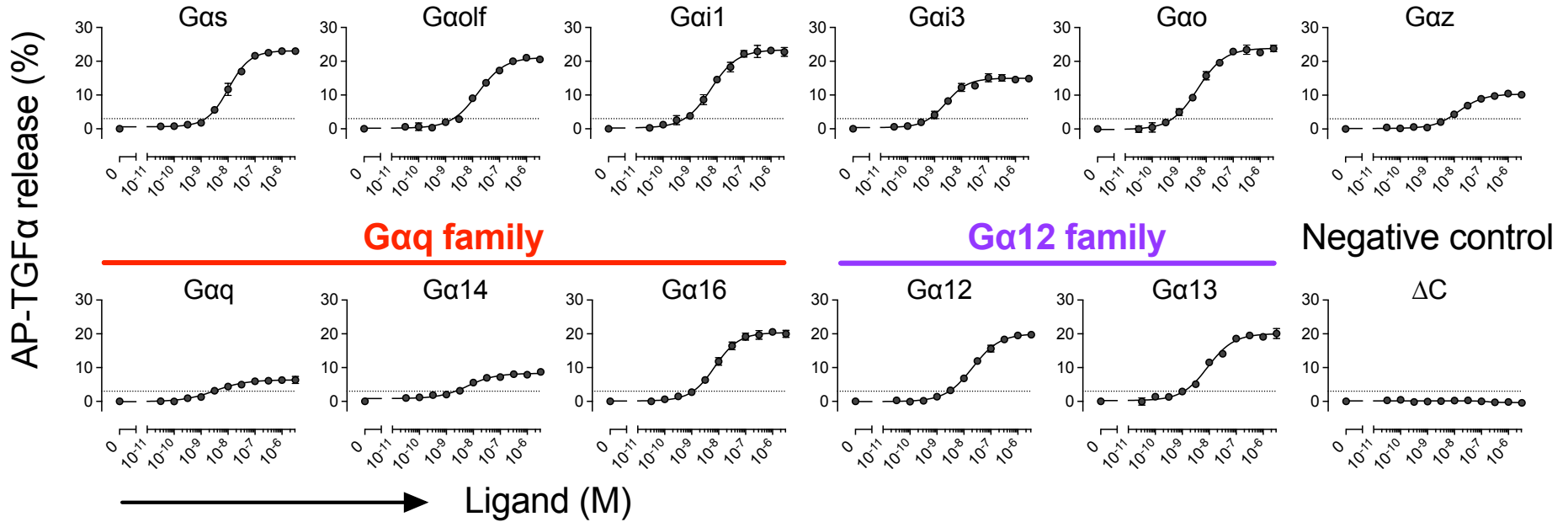
GPCR name: B1

Tested ligand: Kallidin

C-terminal chimera co-expression

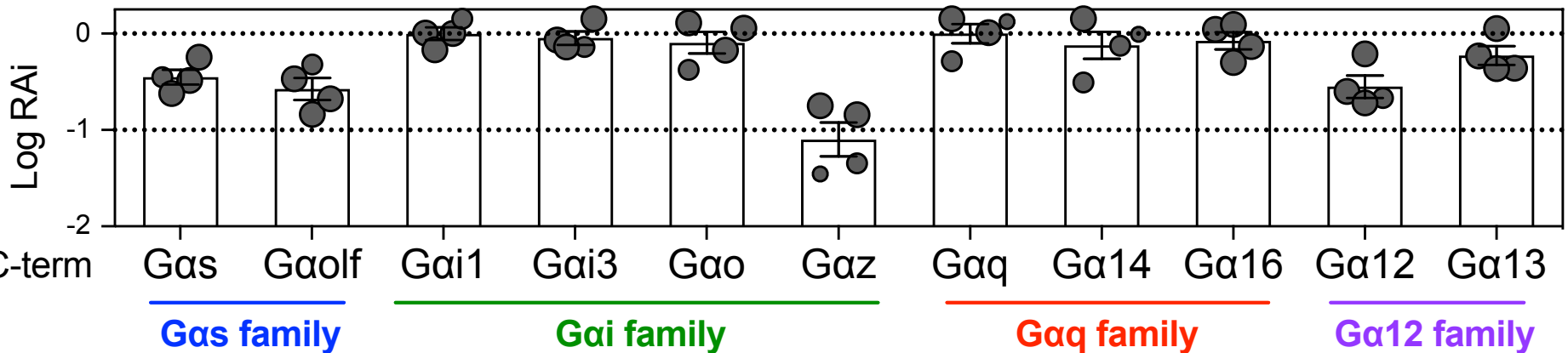
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *BDKRB2*

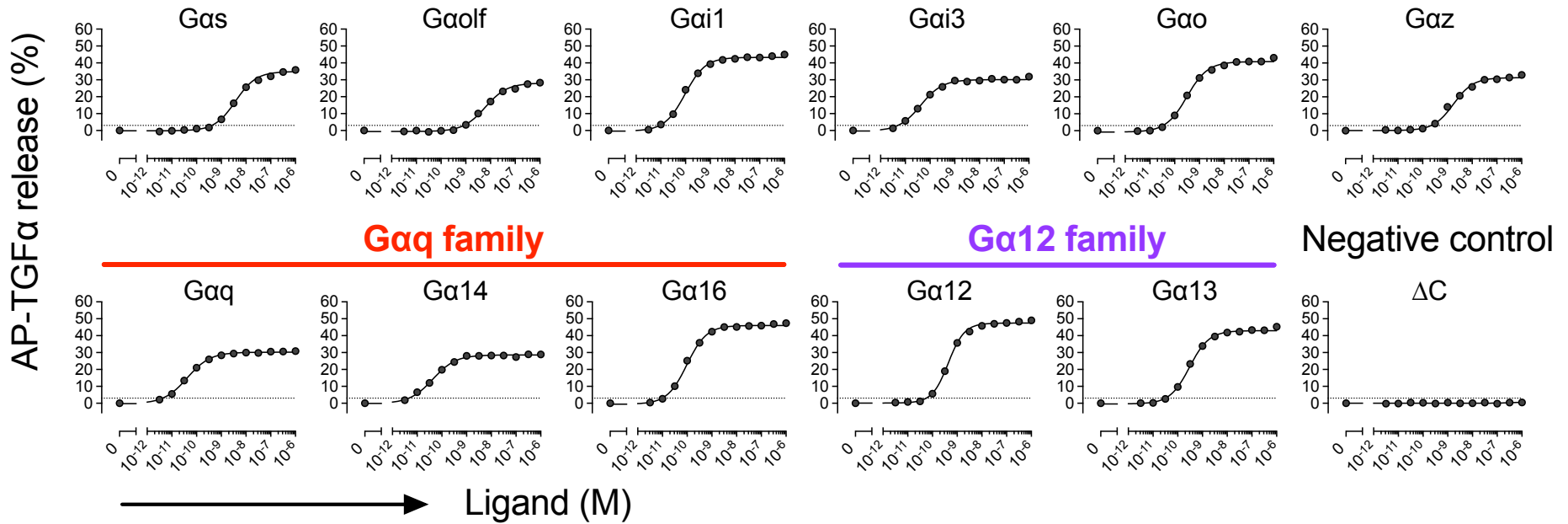
GPCR name: B2

Tested ligand: Bradykinin

C-terminal chimera co-expression

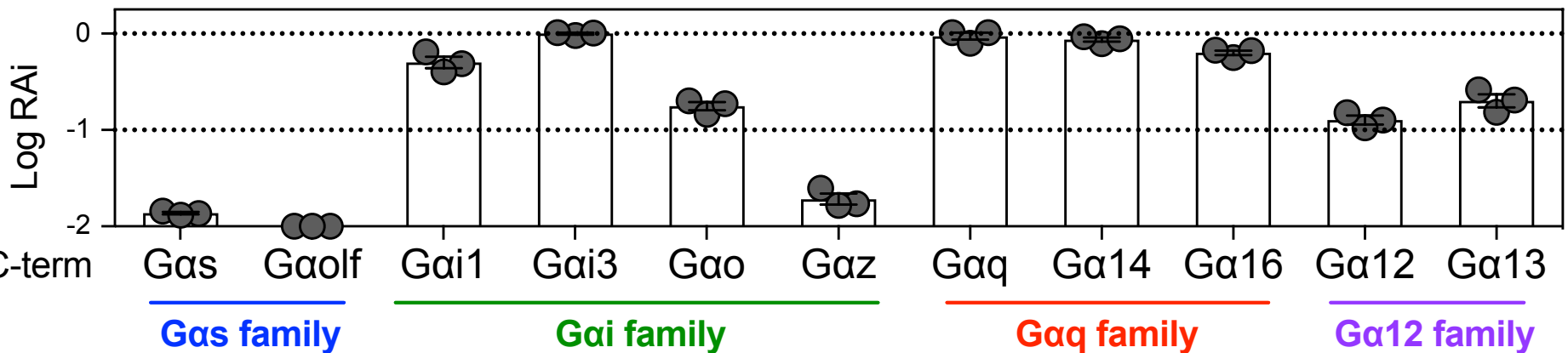
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%

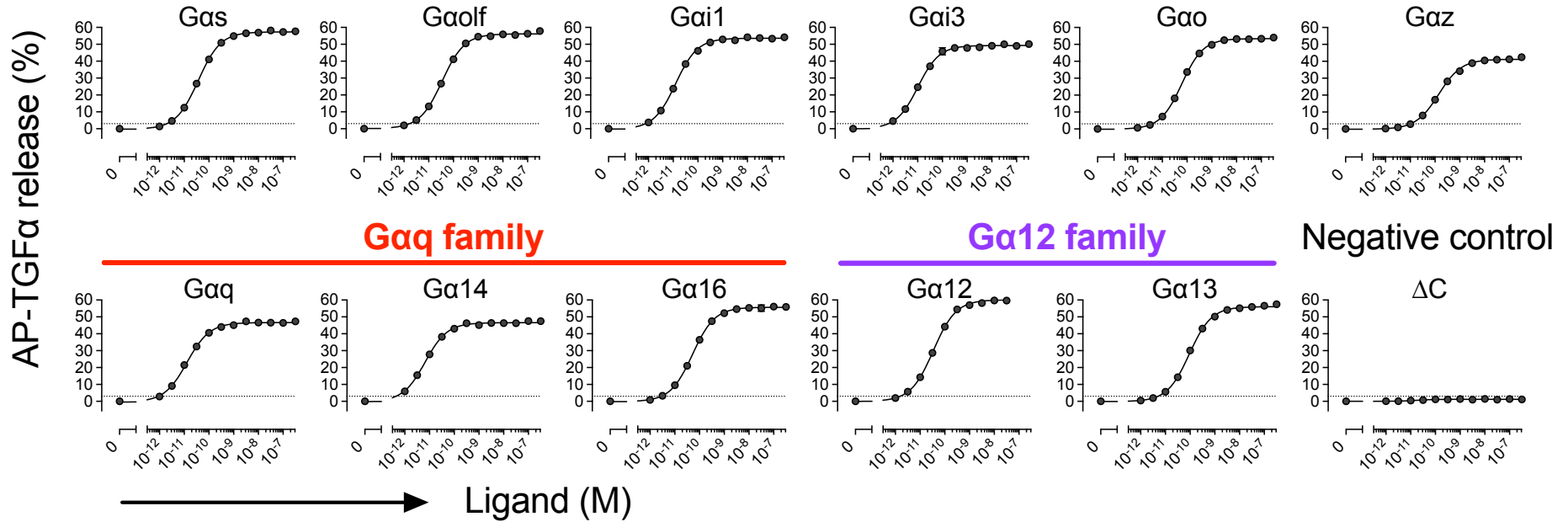


GPCR gene symbol: *CCKAR*
 GPCR name: CCK1
 Tested ligand: CCK-octapeptide

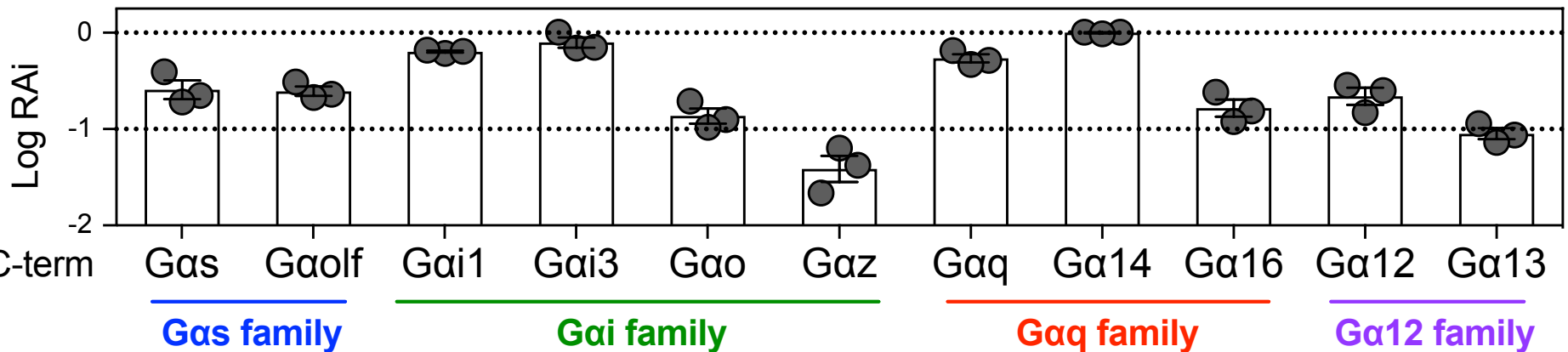
C-terminal chimera co-expression

Gas family

Gai family

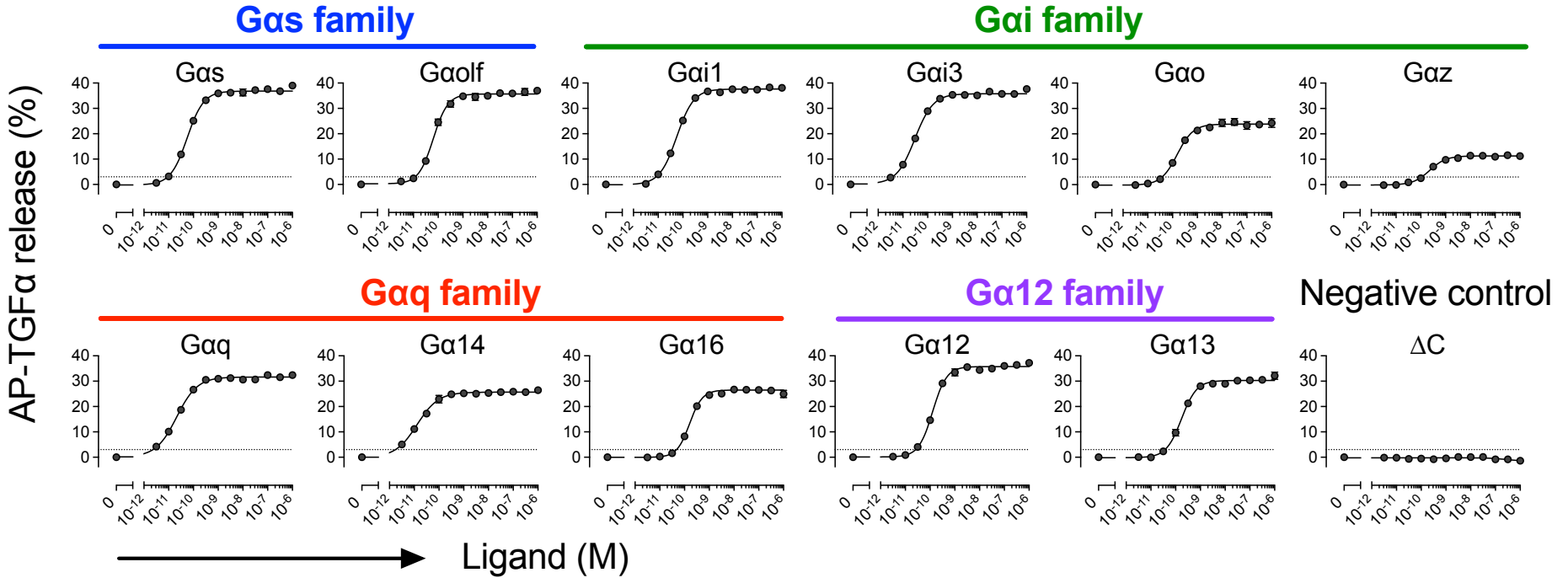


E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%

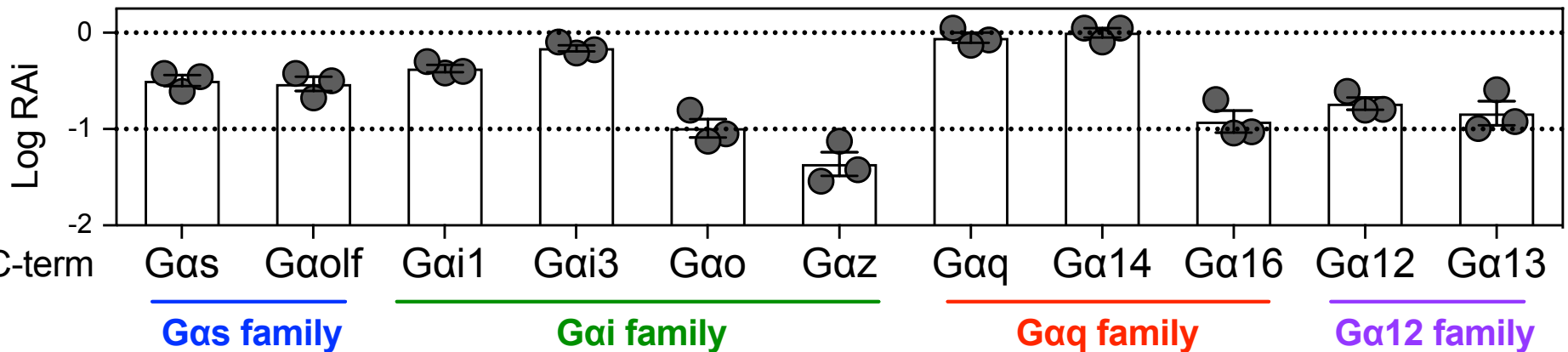


GPCR gene symbol: *CCKBR*
 GPCR name: CCK2
 Tested ligand: CCK-octapeptide

C-terminal chimera co-expression



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CHRM1*

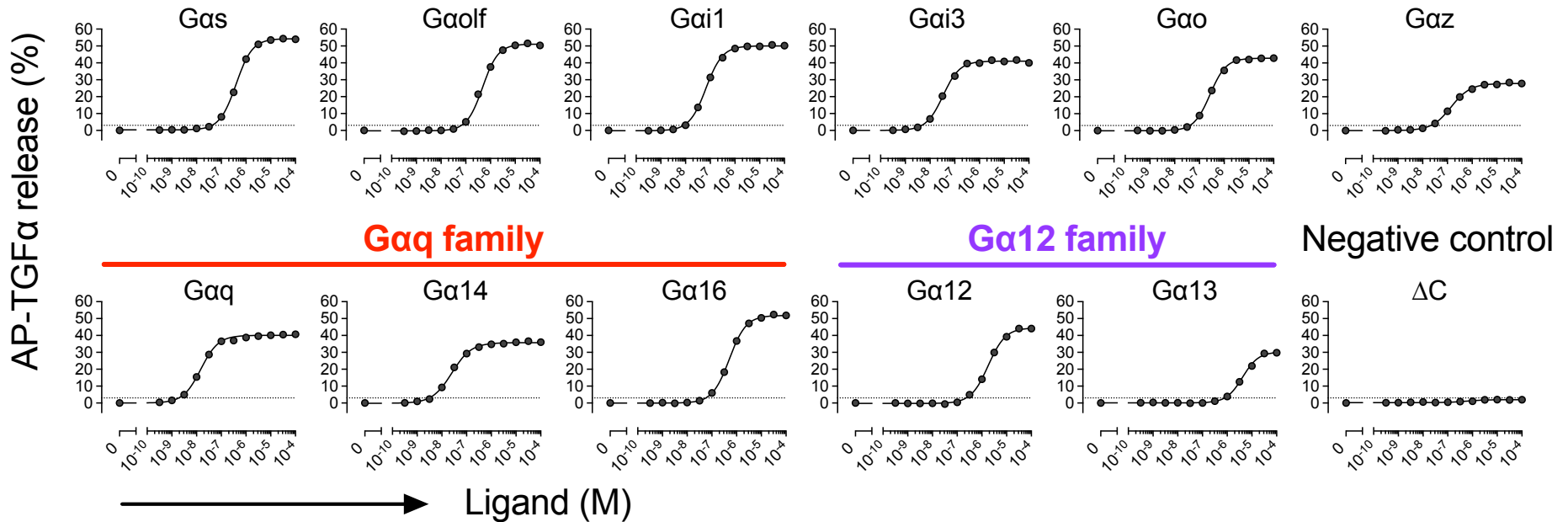
GPCR name: M1

Tested ligand: Acetylcholine

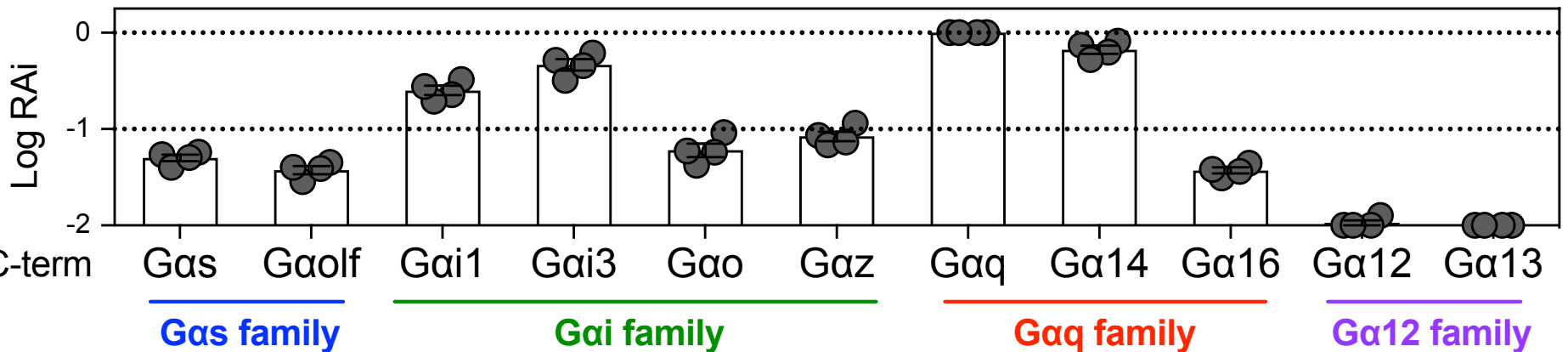
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CHRM2*

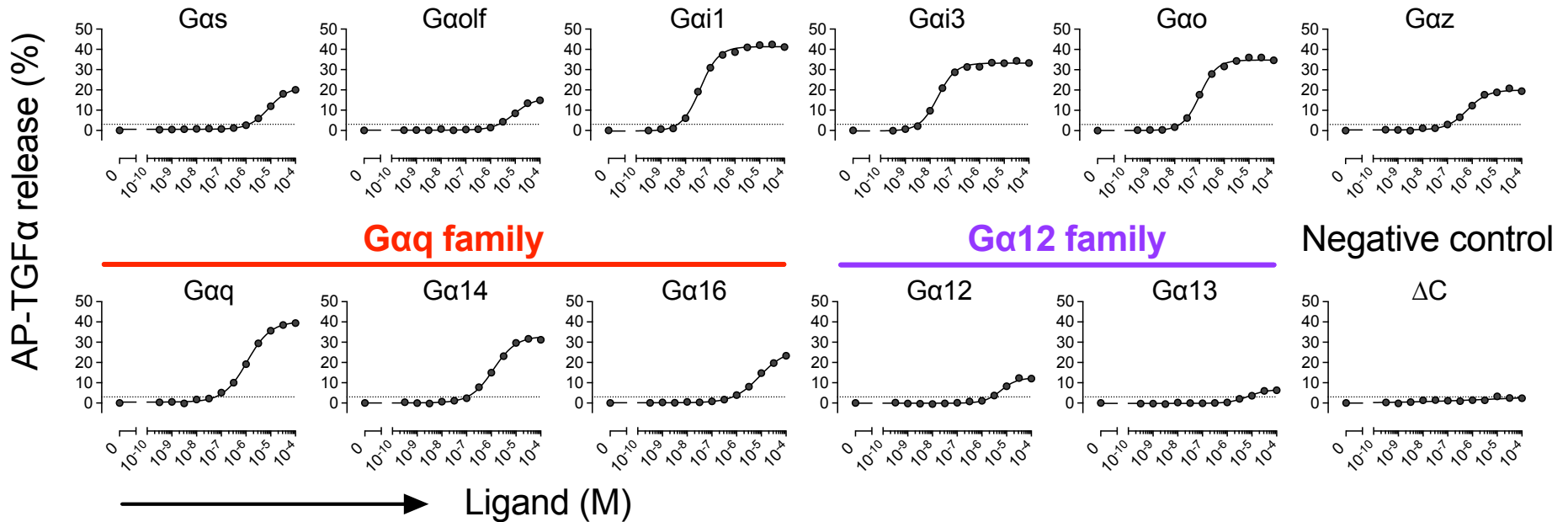
GPCR name: M2

Tested ligand: Acetylcholine

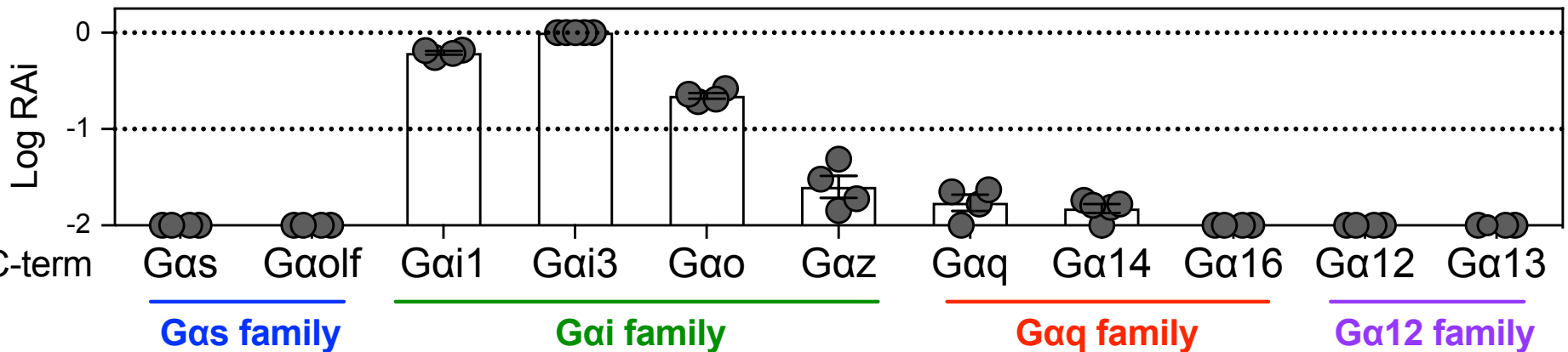
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CHRM3*

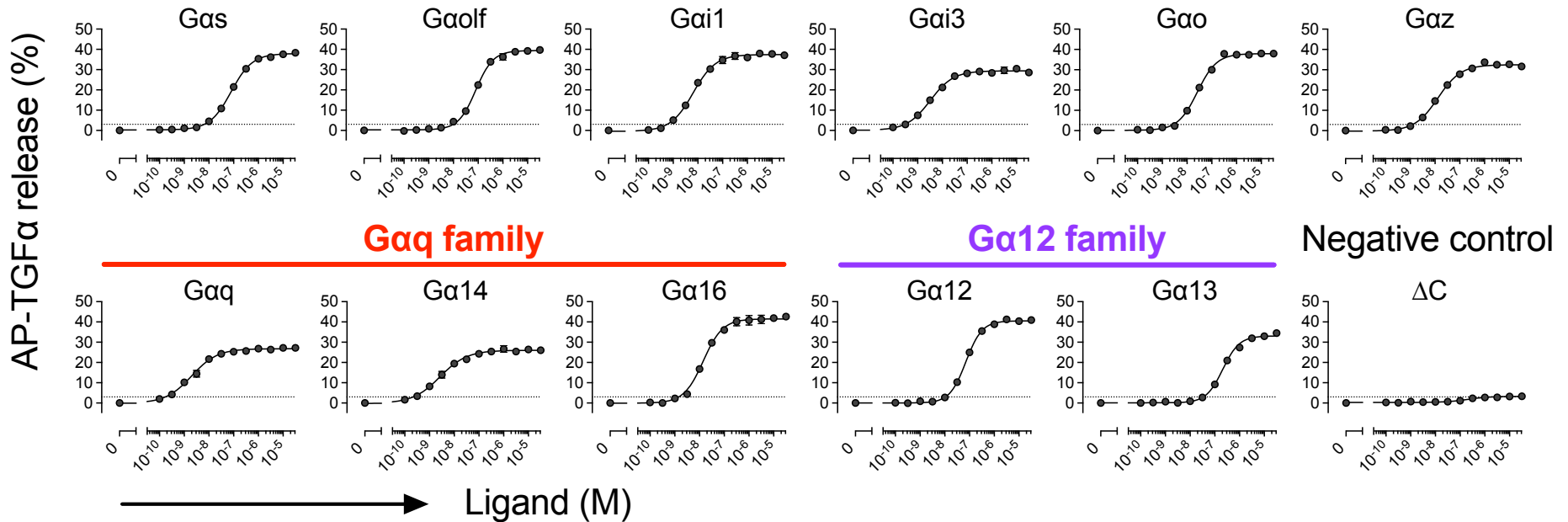
GPCR name: M3

Tested ligand: Acetylcholine

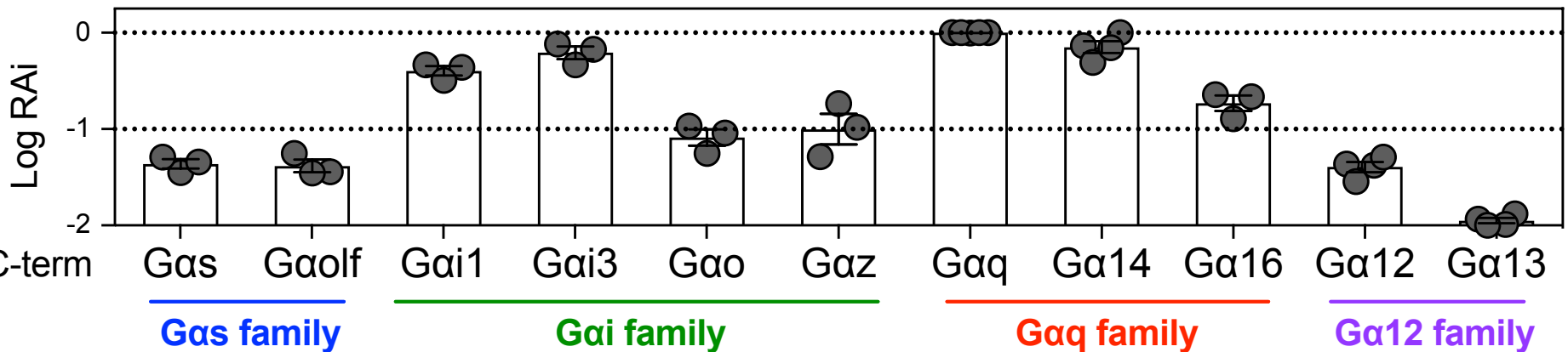
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CHRM4*

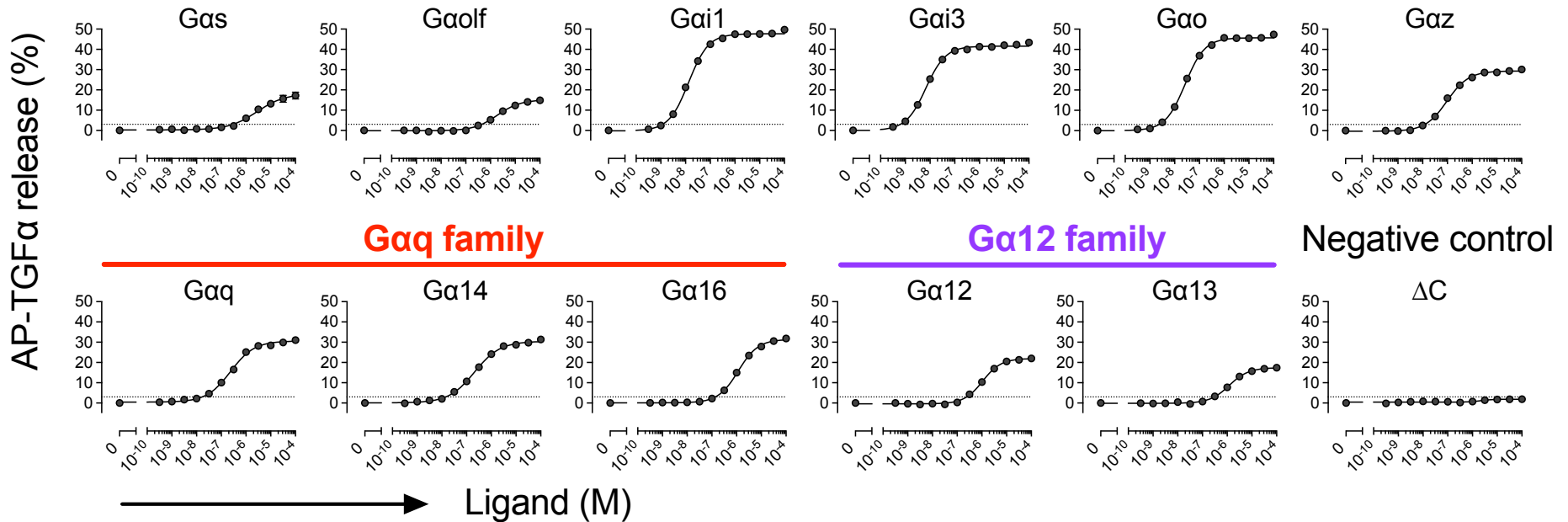
GPCR name: M4

Tested ligand: Acetylcholine

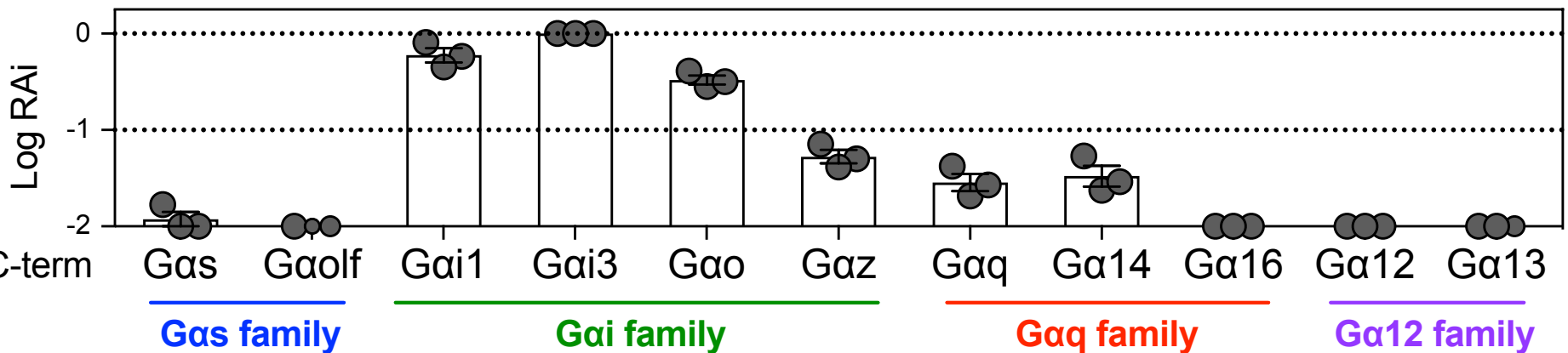
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CHRM5*

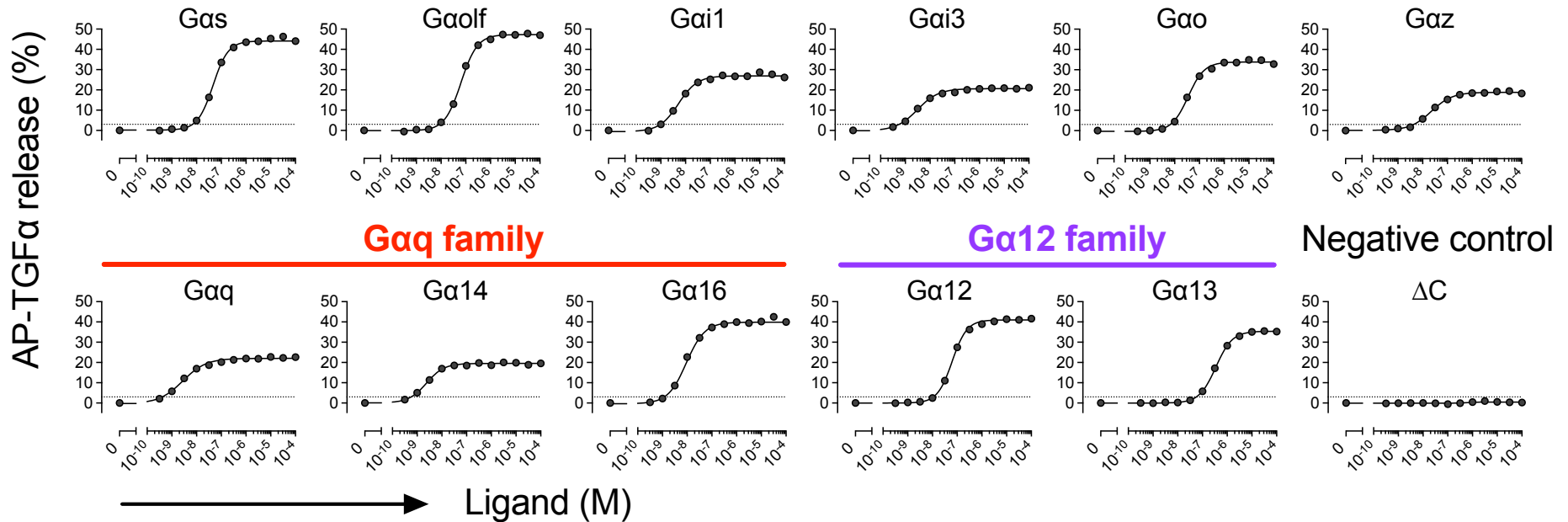
GPCR name: M5

Tested ligand: Acetylcholine

C-terminal chimera co-expression

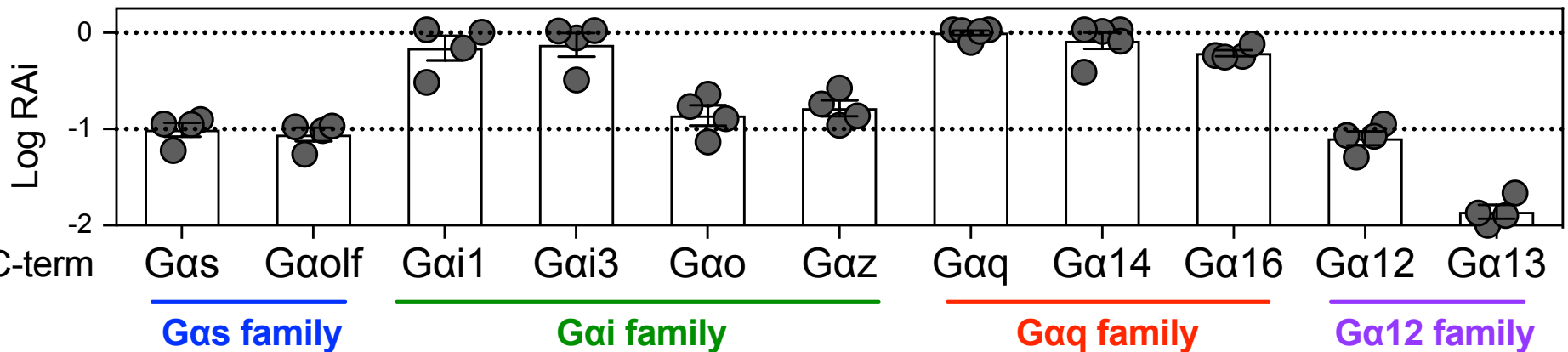
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CNR1*

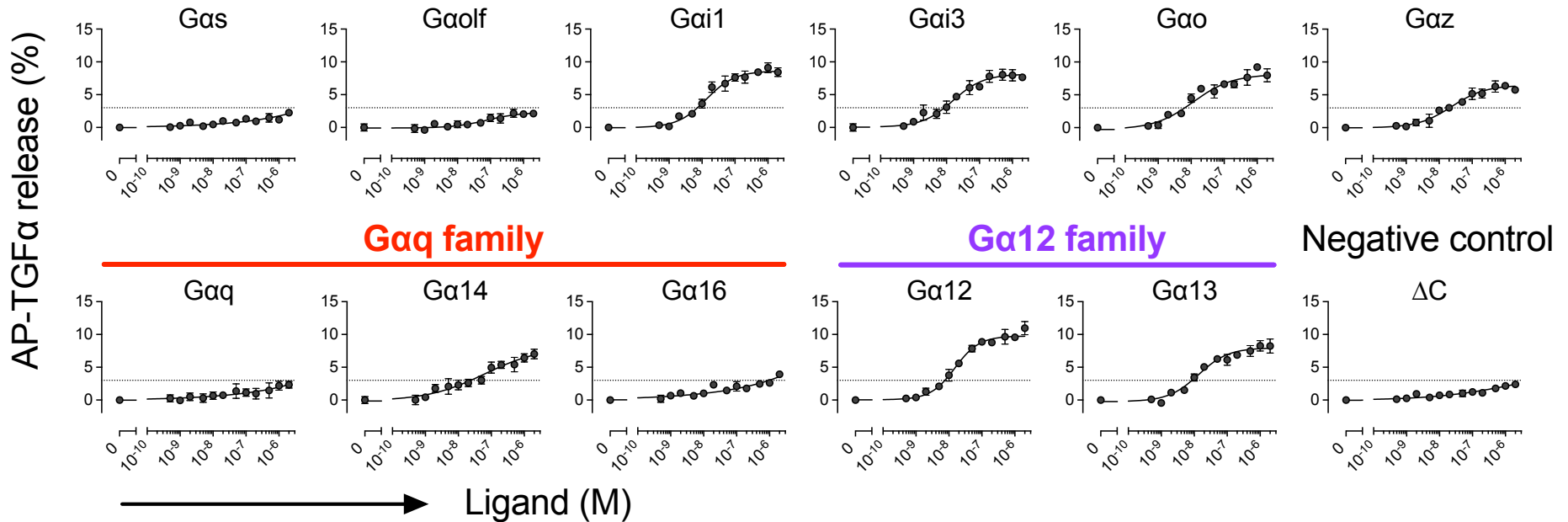
GPCR name: CB1

Tested ligand: CP-55940

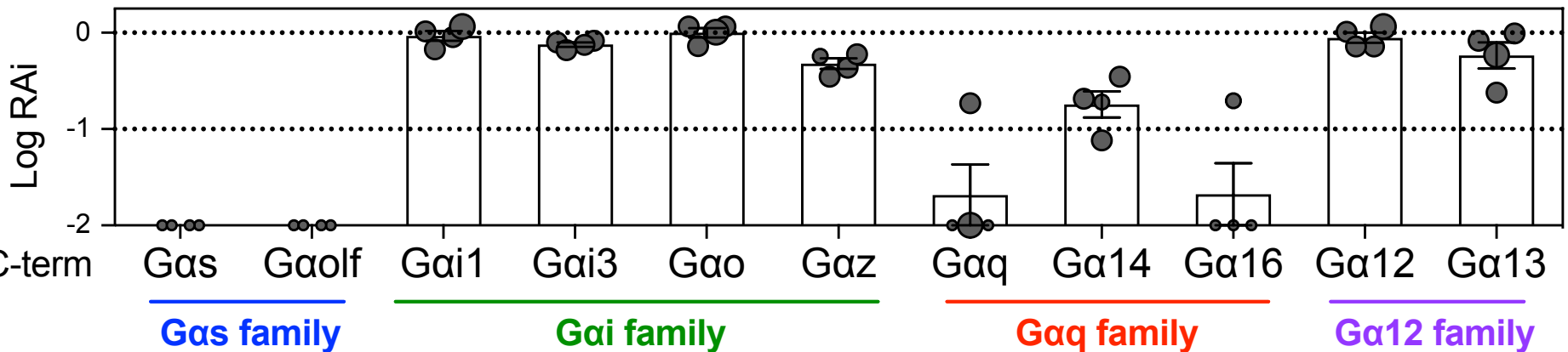
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CNR2*

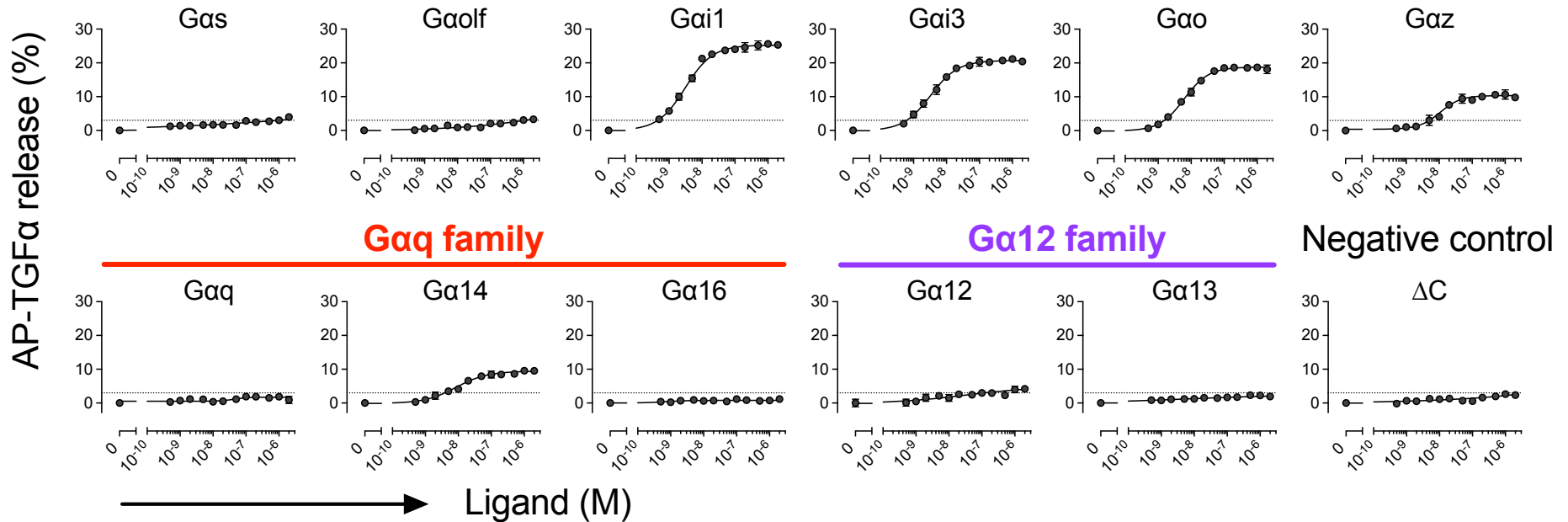
GPCR name: CB2

Tested ligand: CP-55940

C-terminal chimera co-expression

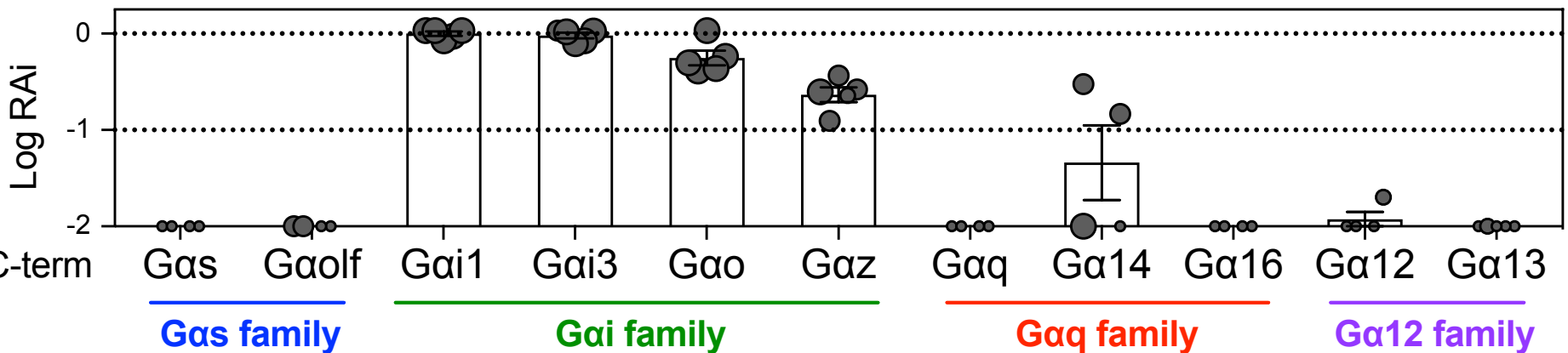
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CYSLTR1*

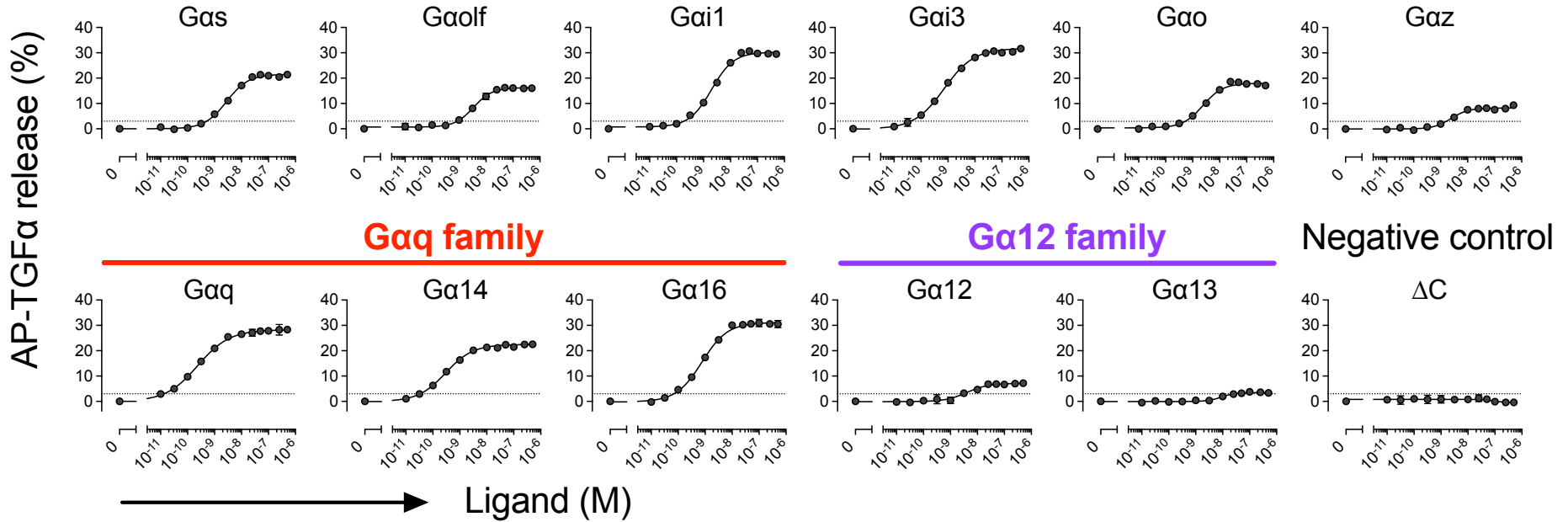
GPCR name: CysLT1

Tested ligand: Leukotriene D4

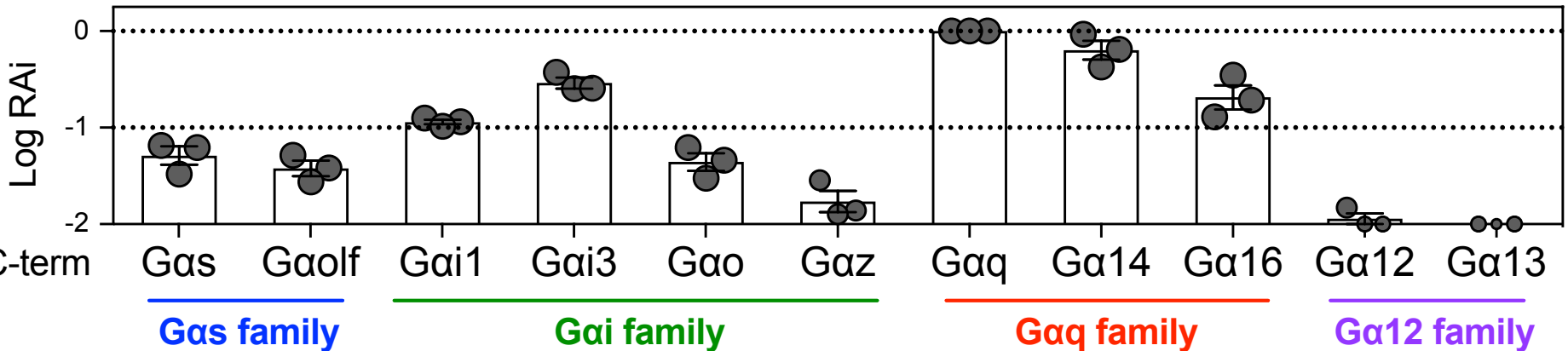
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *CYSLTR2*

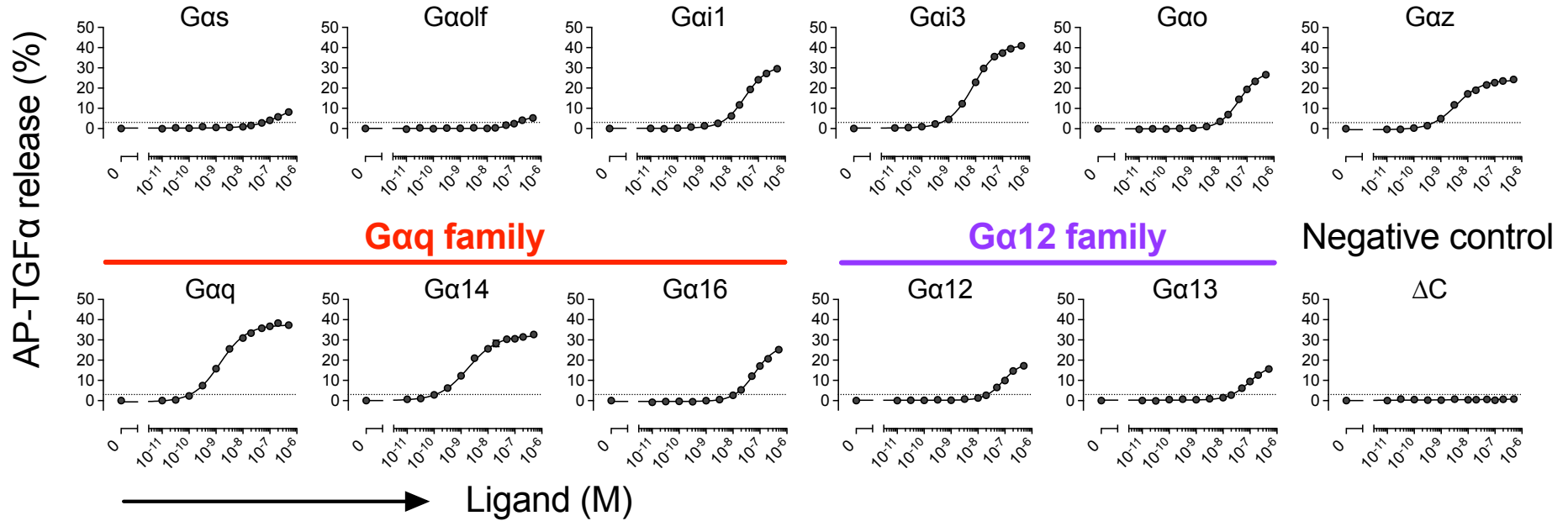
GPCR name: CysLT2

Tested ligand: Leukotriene D4

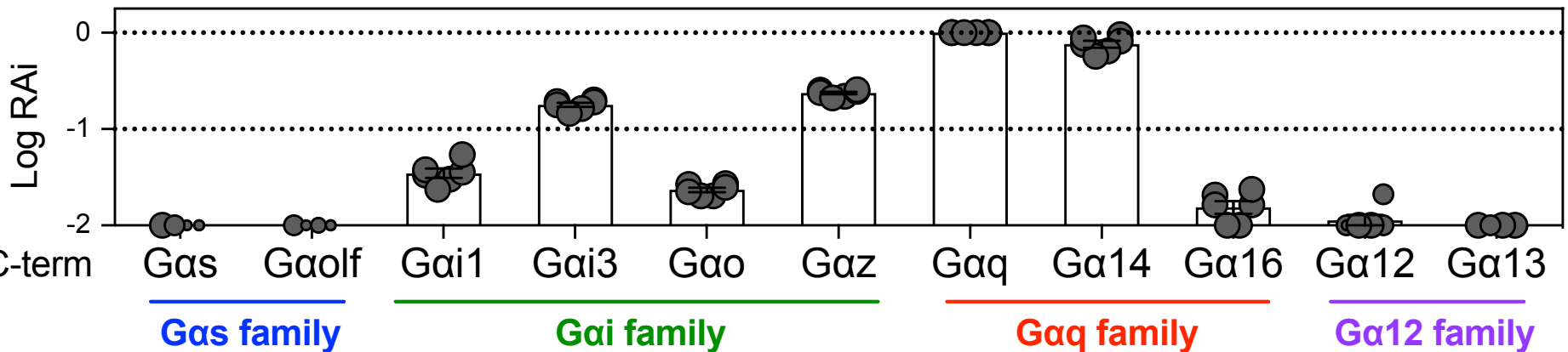
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) • <3% • 3-5% • 5-10% • >10%



GPCR gene symbol: *DRD1*

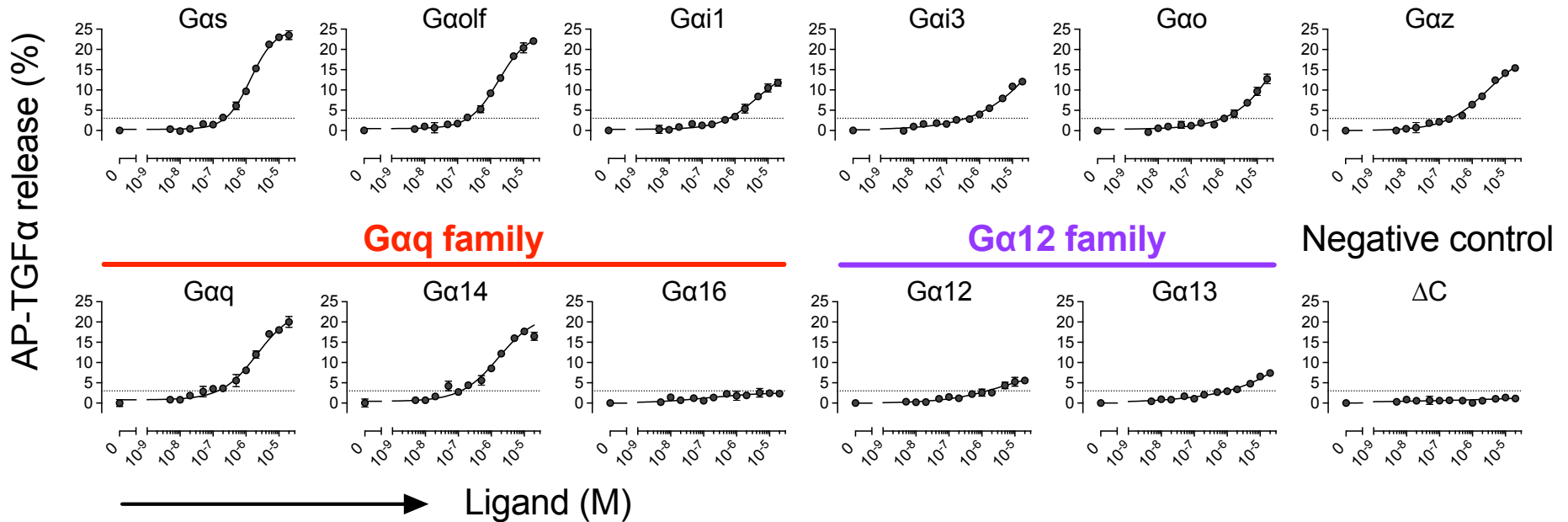
GPCR name: D1

Tested ligand: Dopamine

C-terminal chimera co-expression

Gas family

Gai family



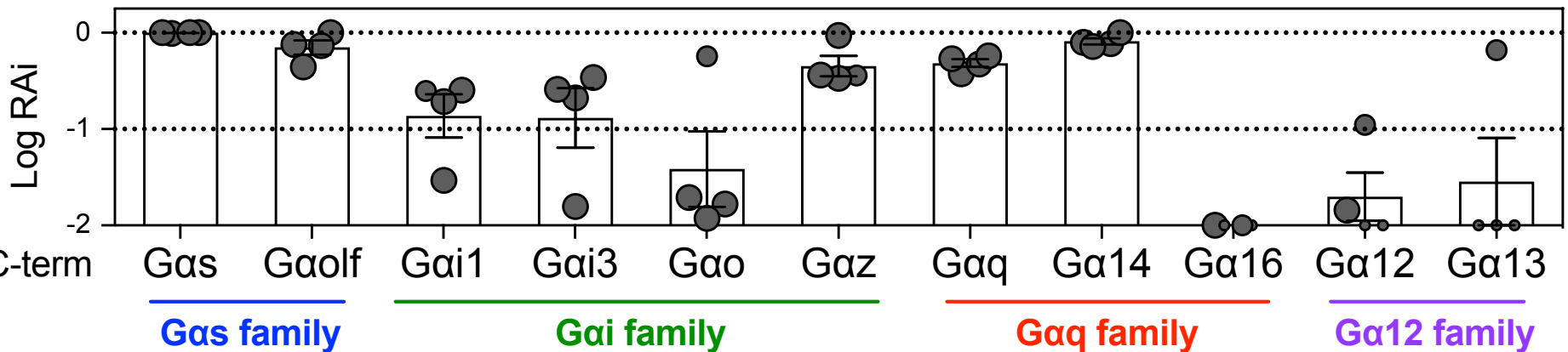
E_{max} (%AP-TGFα release)

● <3%

● 3-5%

● 5-10%

● >10%



GPCR gene symbol: *DRD2*

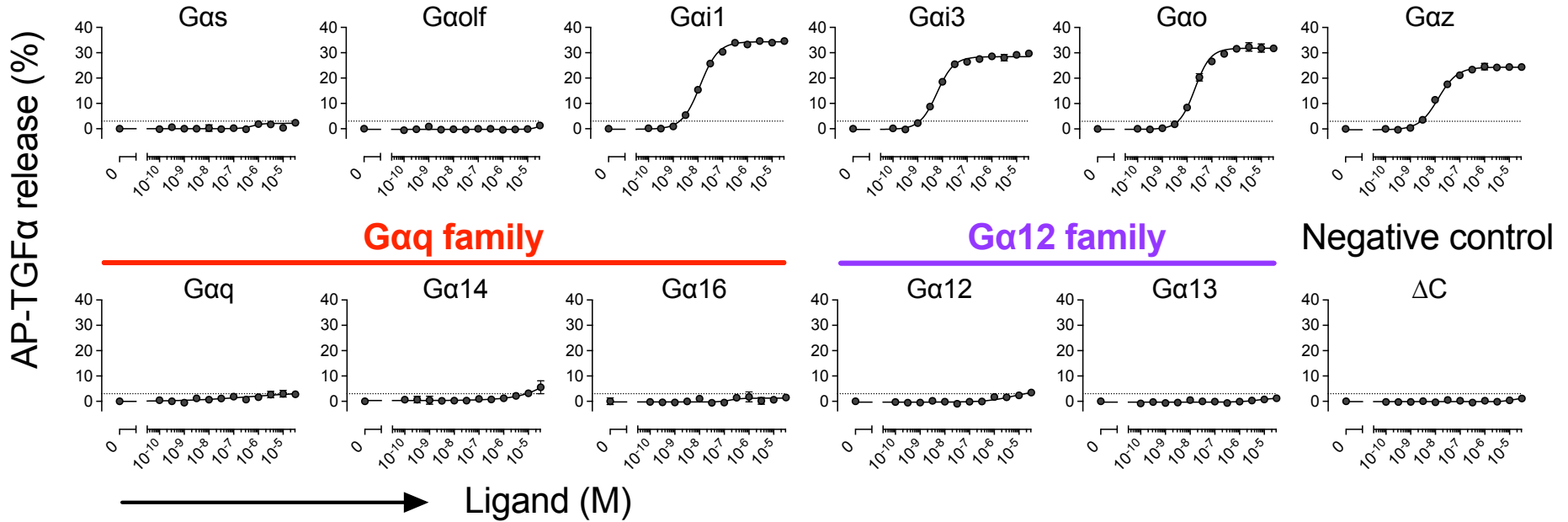
GPCR name: D2

Tested ligand: Dopamine

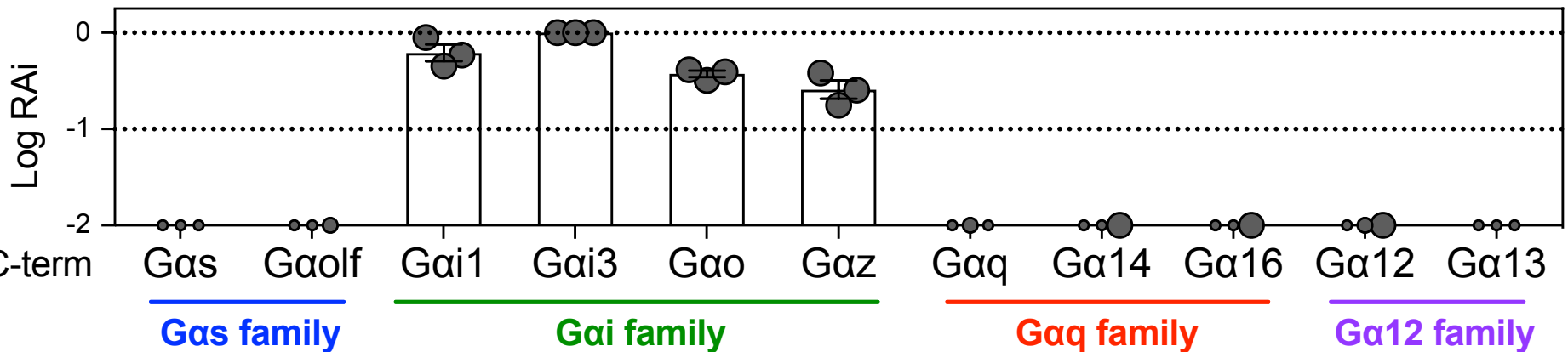
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *DRD3*

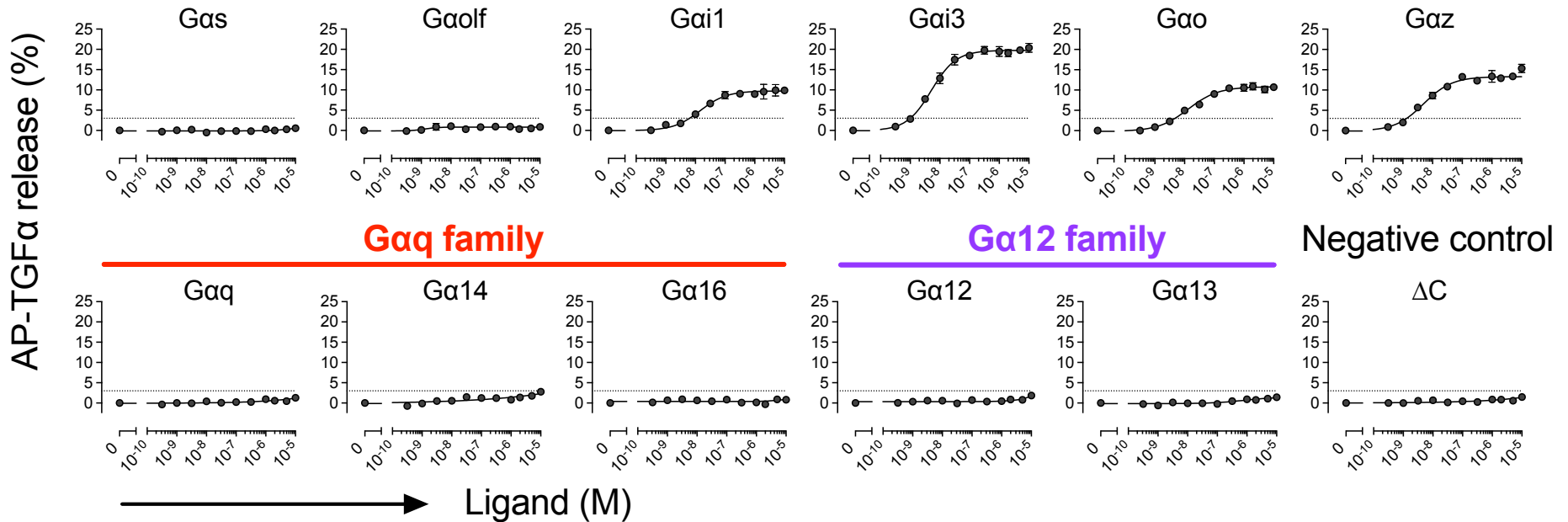
GPCR name: D3

Tested ligand: Dopamine

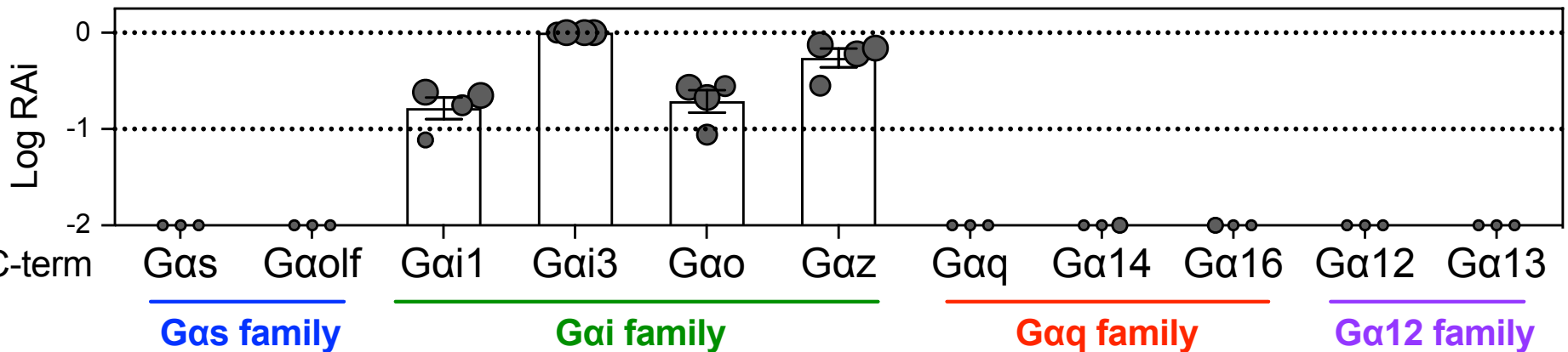
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *DRD4*

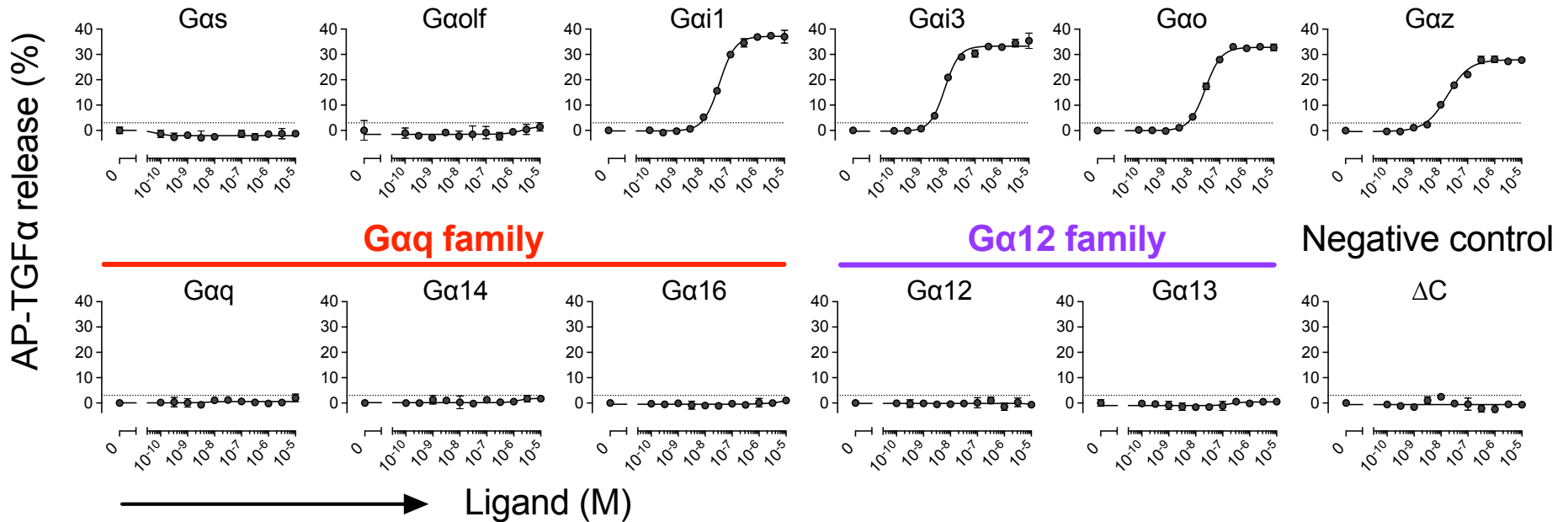
GPCR name: D4

Tested ligand: Dopamine

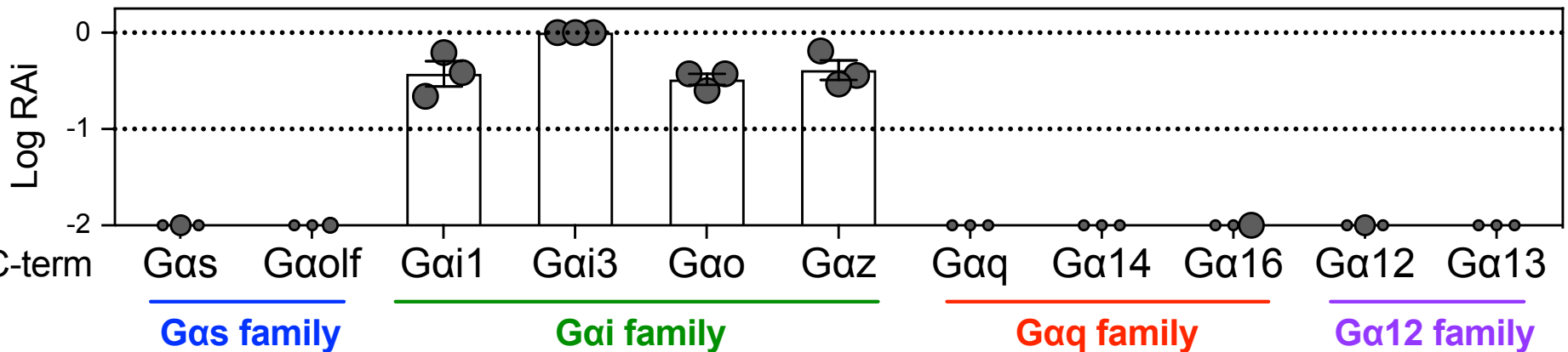
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *DRD5*

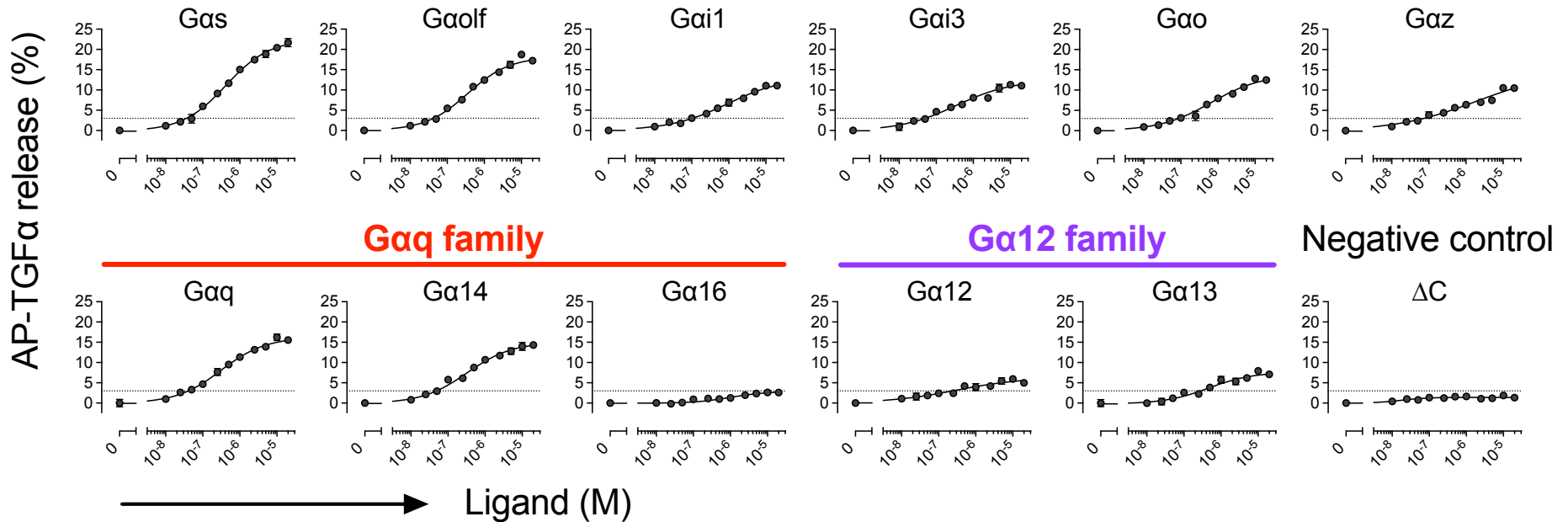
GPCR name: D5

Tested ligand: Dopamine

C-terminal chimera co-expression

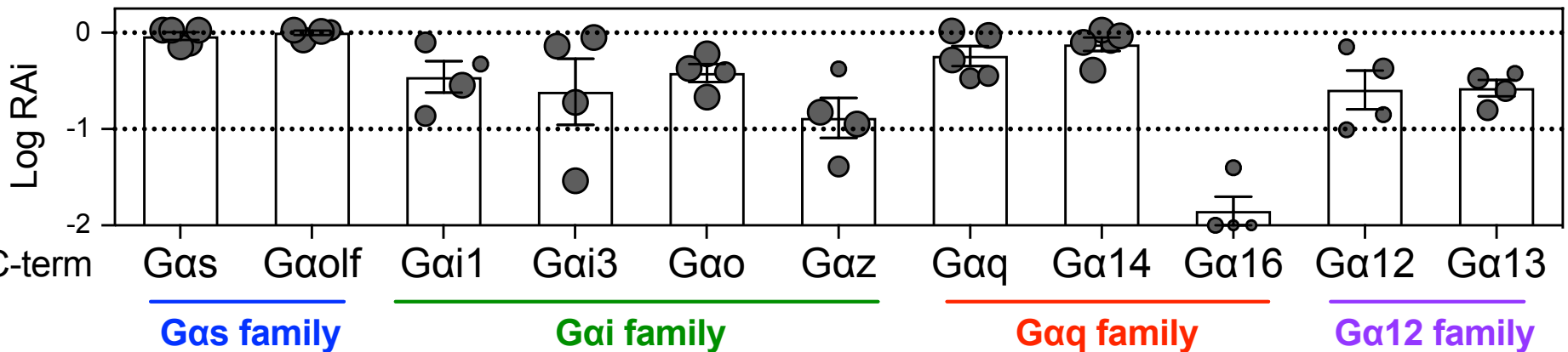
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *EDNRA*

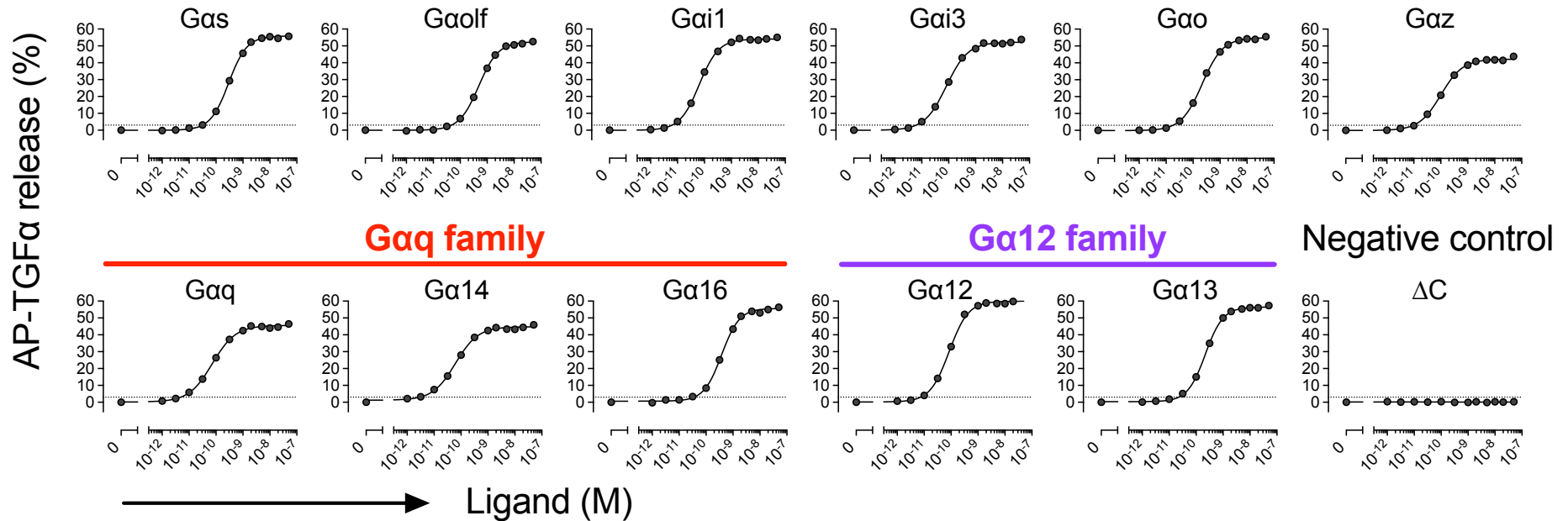
GPCR name: ETA

Tested ligand: Endothelin-1

C-terminal chimera co-expression

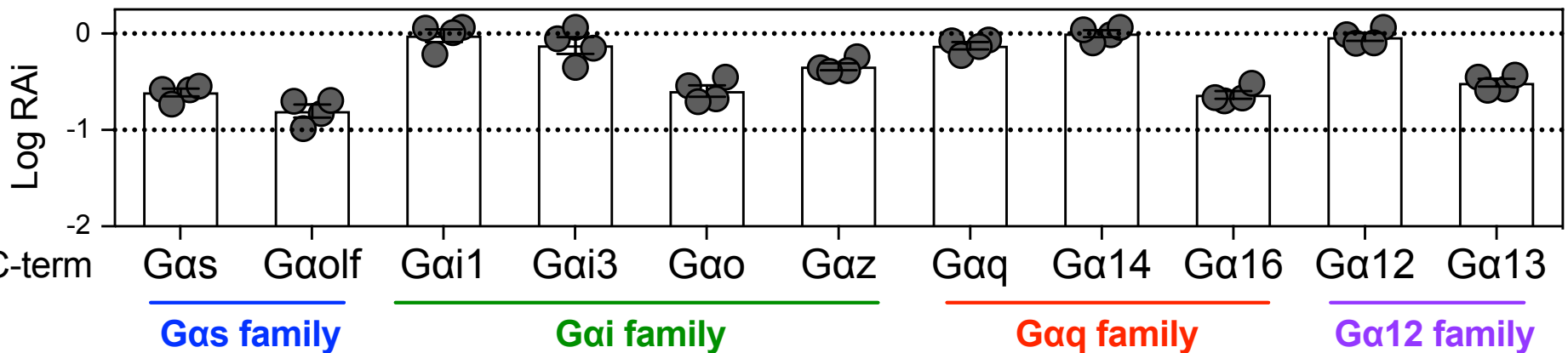
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *EDNRB*

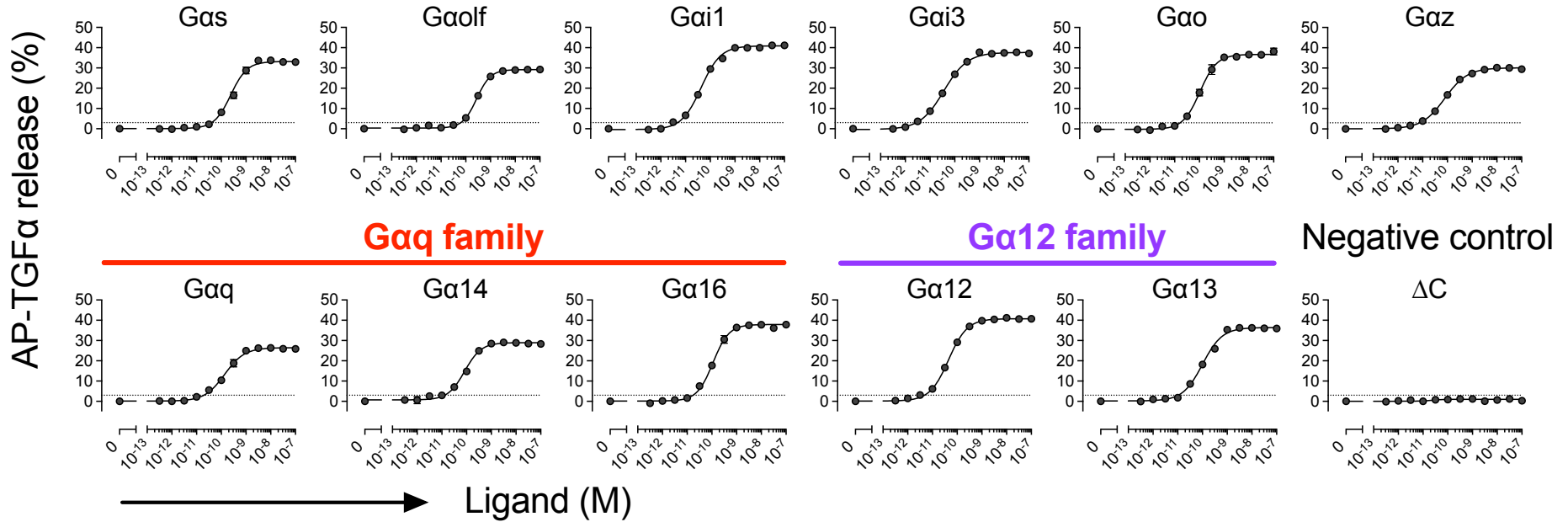
GPCR name: ETB

Tested ligand: Endothelin-1

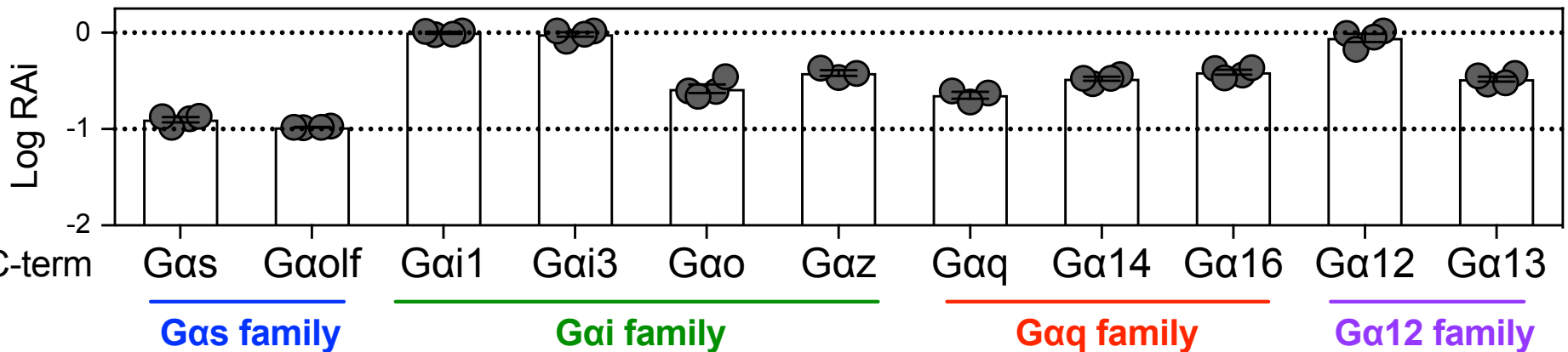
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *F2R*

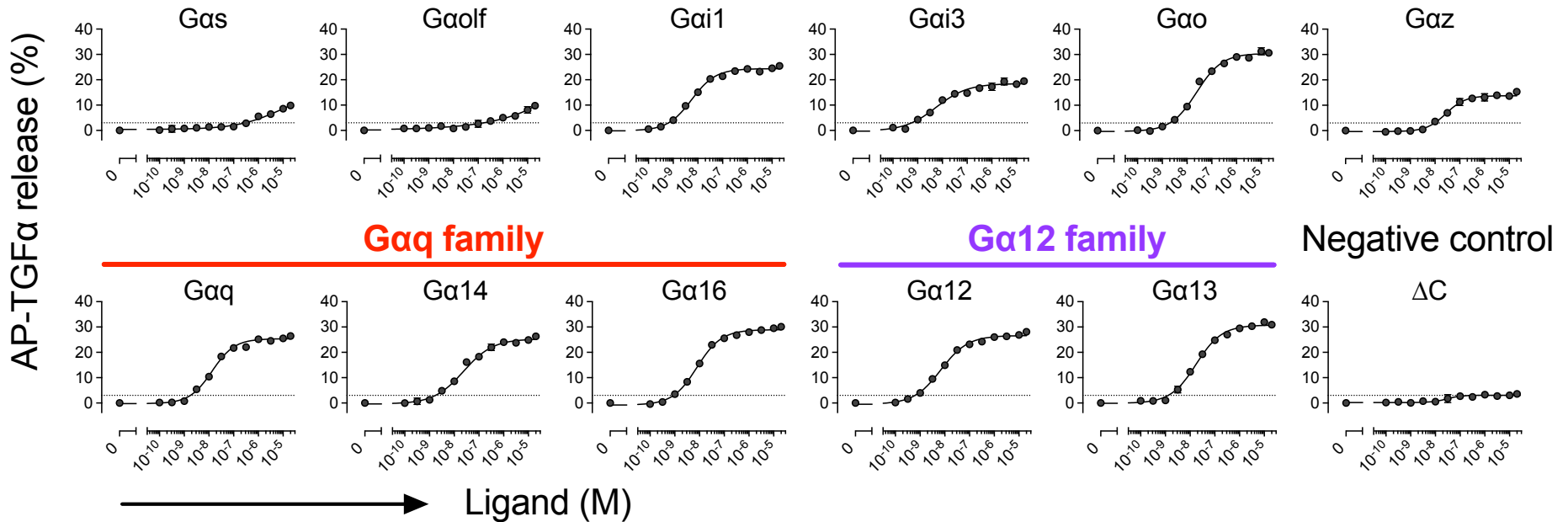
GPCR name: PAR1

Tested ligand: PAR1-peptide (TFLLR-NH2)

C-terminal chimera co-expression

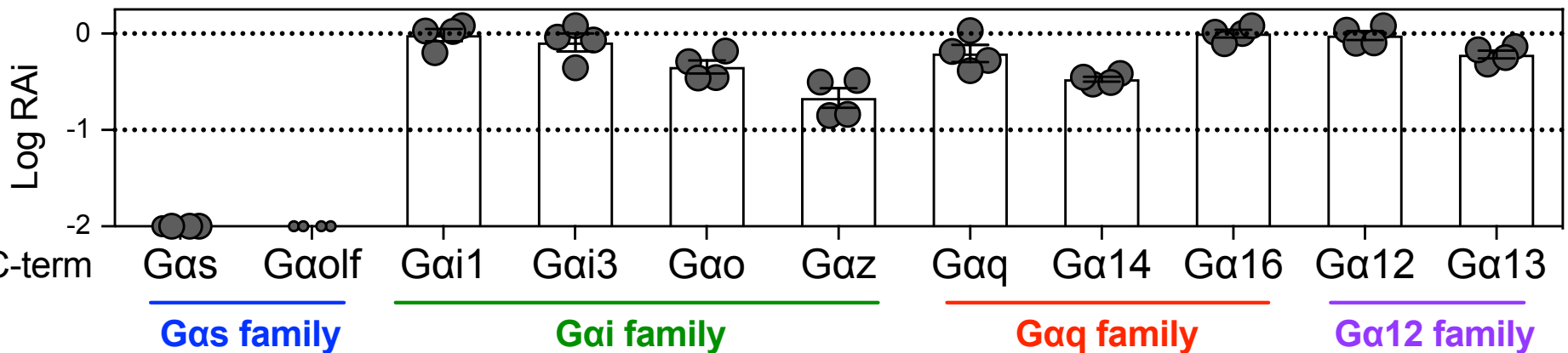
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *F2RL2*

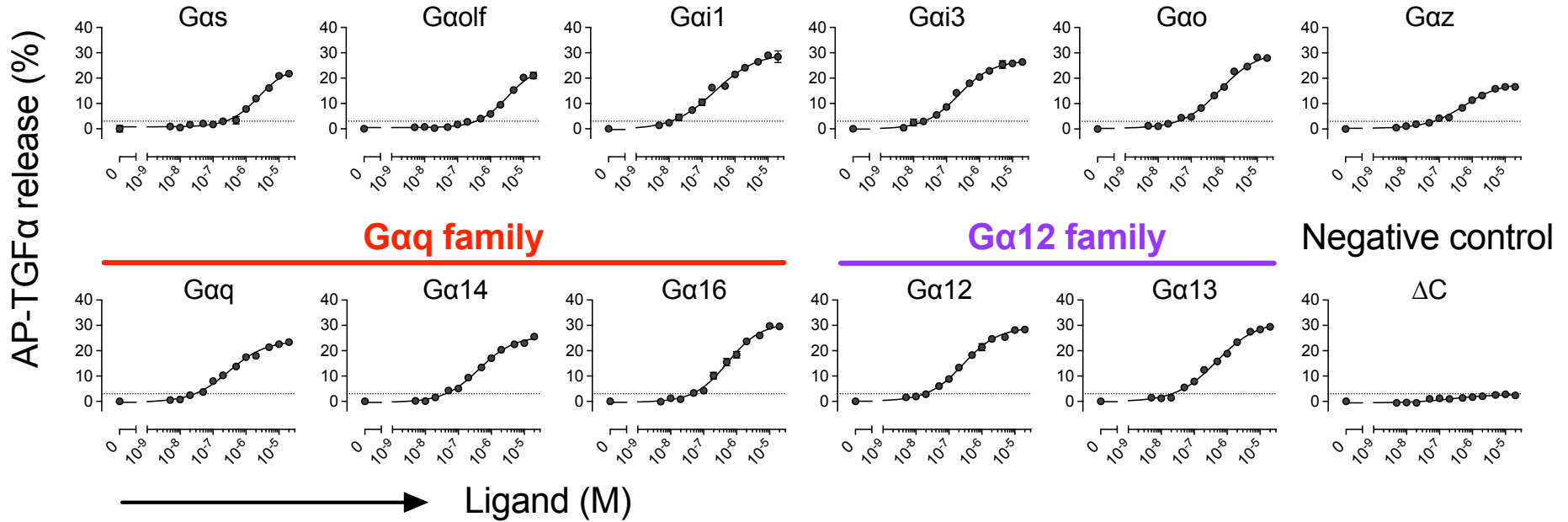
GPCR name: PAR2

Tested ligand: PAR2-peptide (SLIGRL-NH2)

C-terminal chimera co-expression

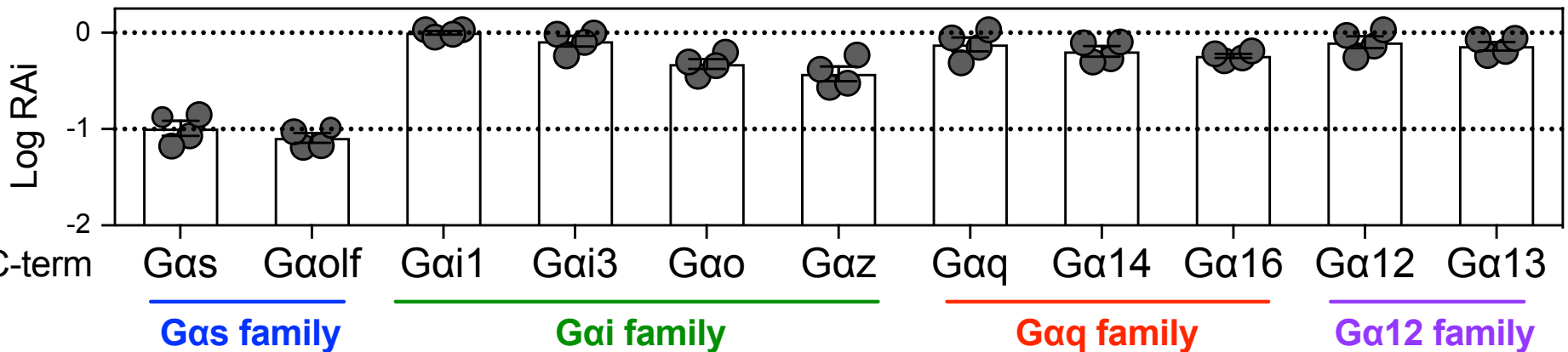
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *F2RL2*

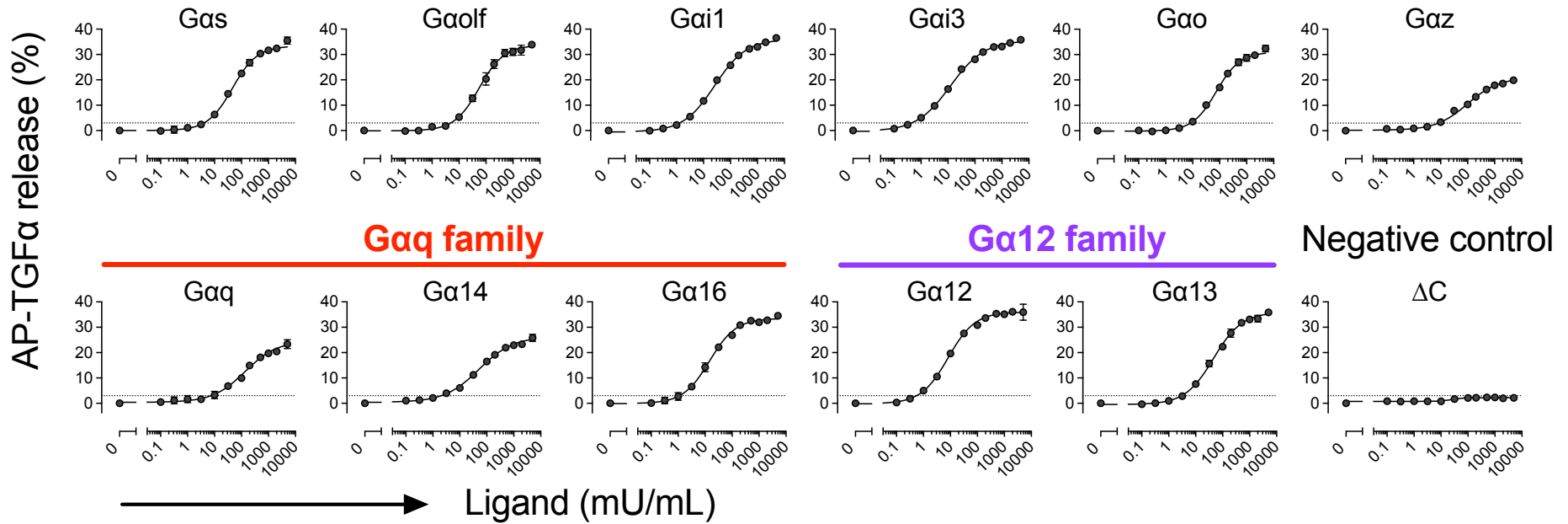
GPCR name: PAR3

Tested ligand: Thrombin

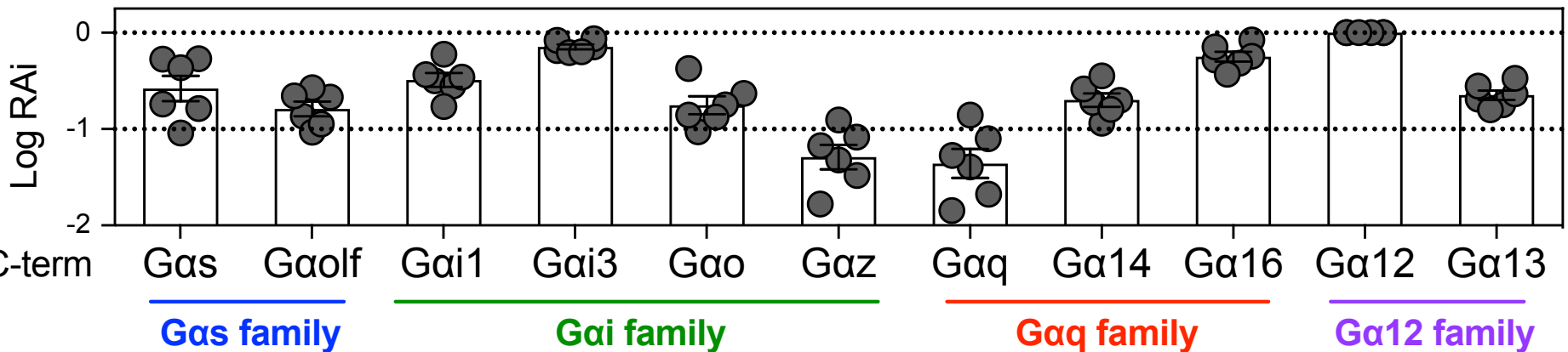
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *F2RL3*

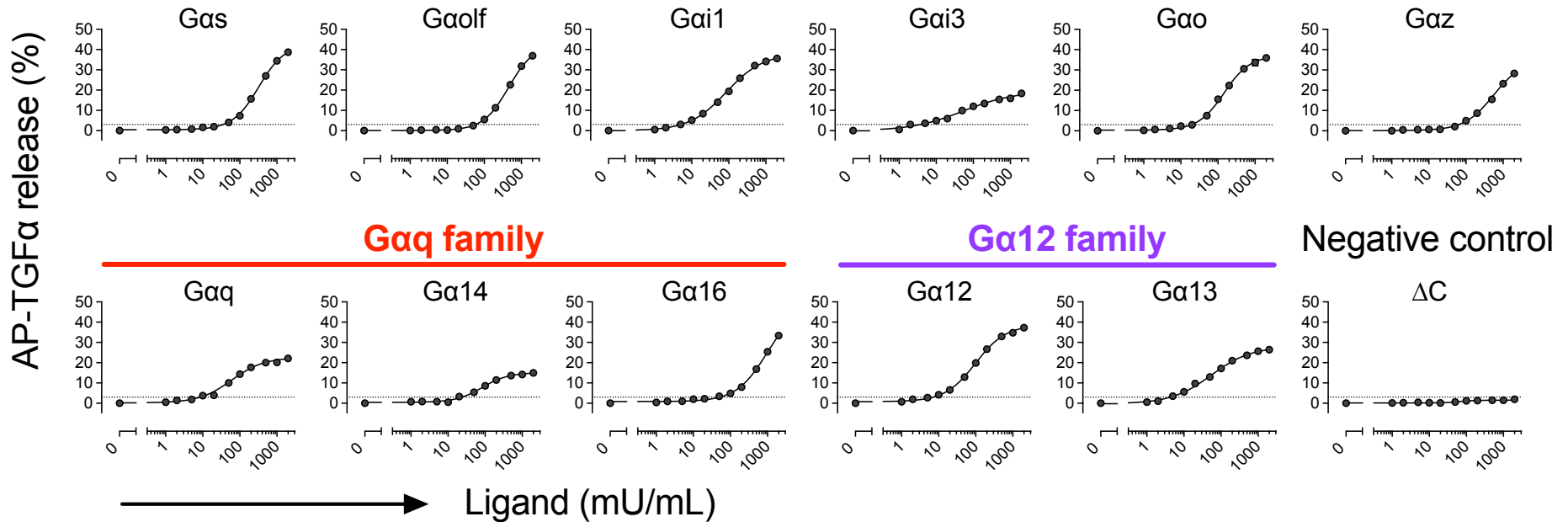
GPCR name: PAR4

Tested ligand: Thrombin

C-terminal chimera co-expression

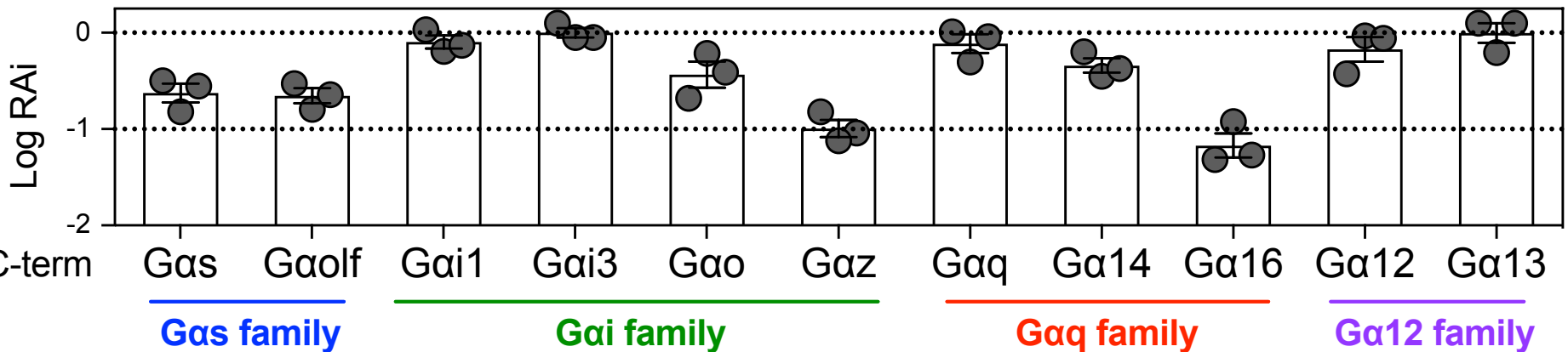
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



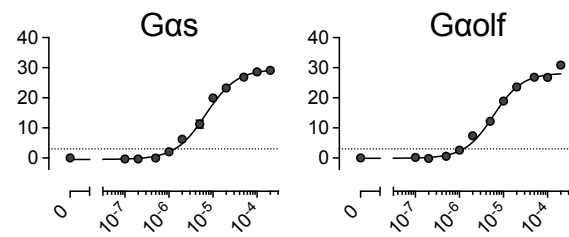
GPCR gene symbol: *FFAR1*

GPCR name: FFA1

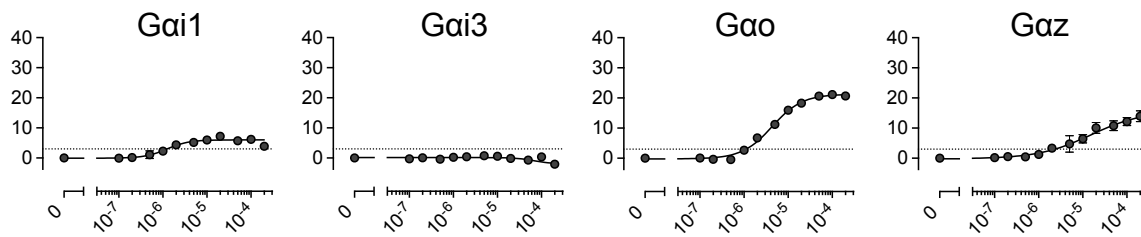
Tested ligand: Palmitic acid

C-terminal chimera co-expression

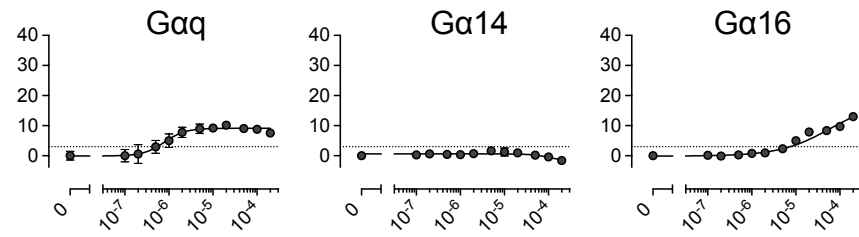
Gas family



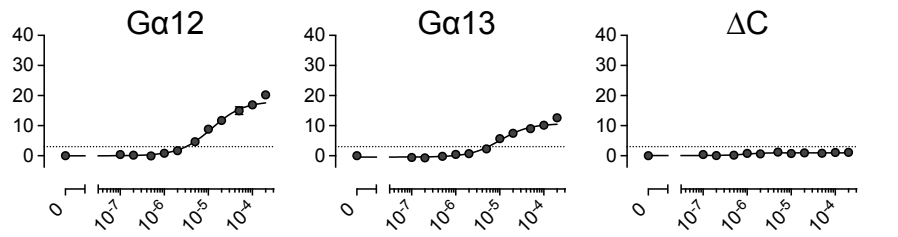
Gai family



Gaq family



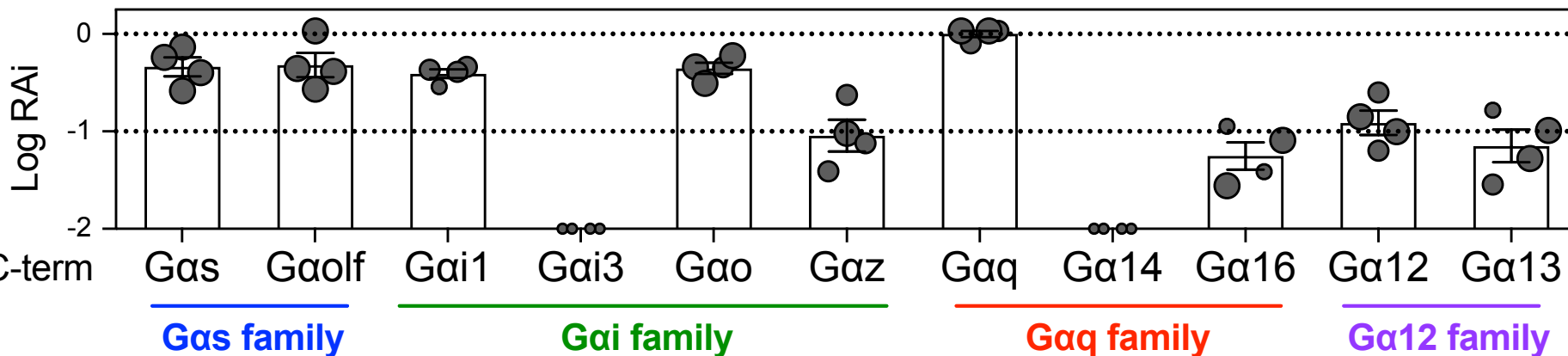
G α 12 family



Ligand (M)

E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *FFAR2*

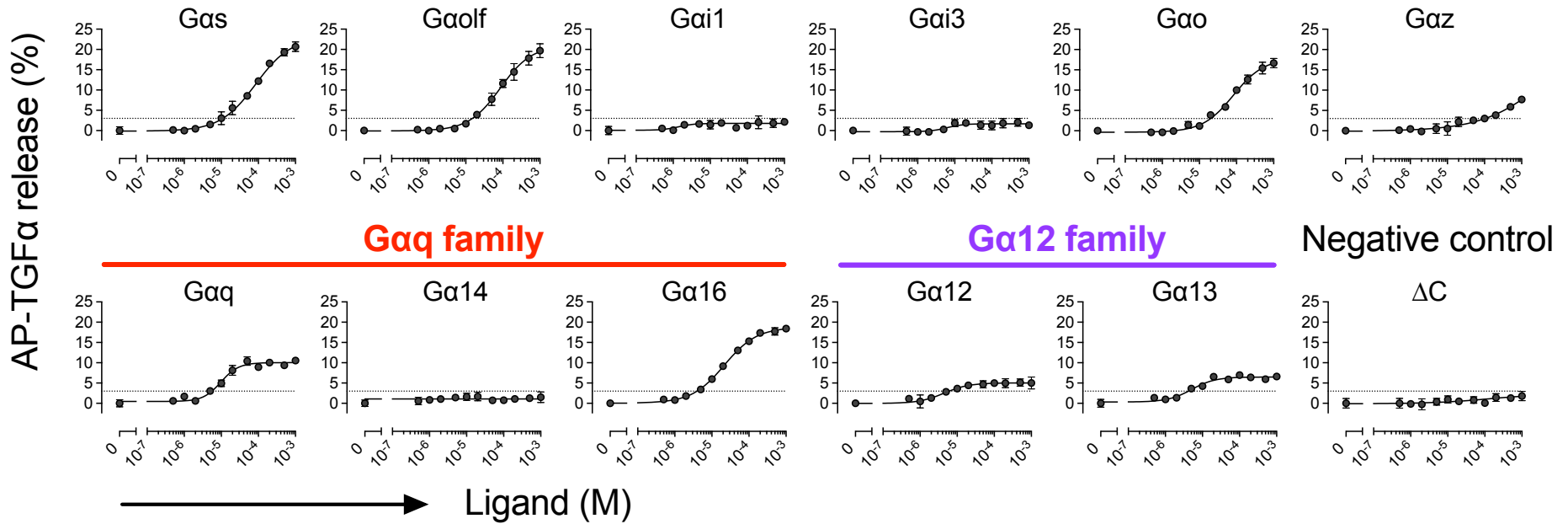
GPCR name: FFA2

Tested ligand: Propionic acid

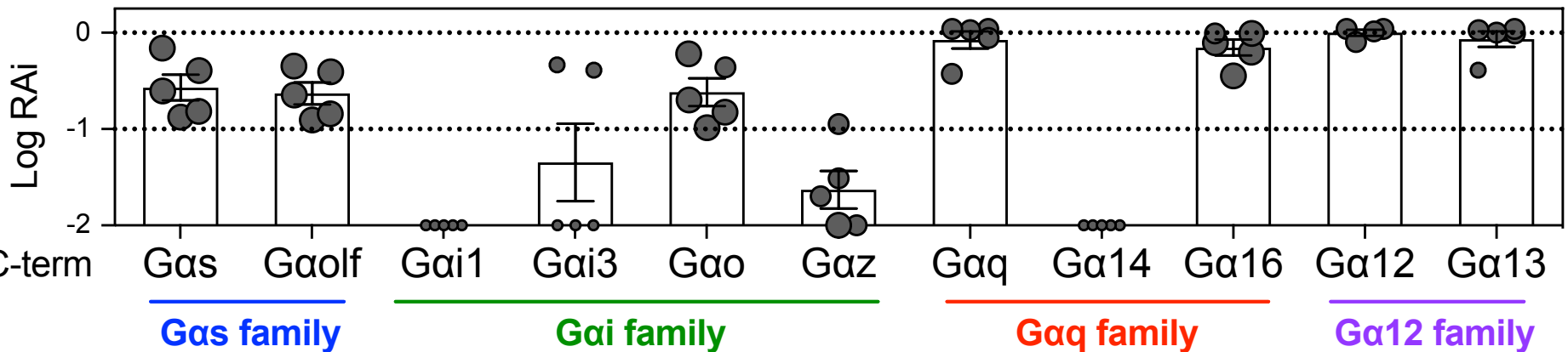
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *FFAR3*

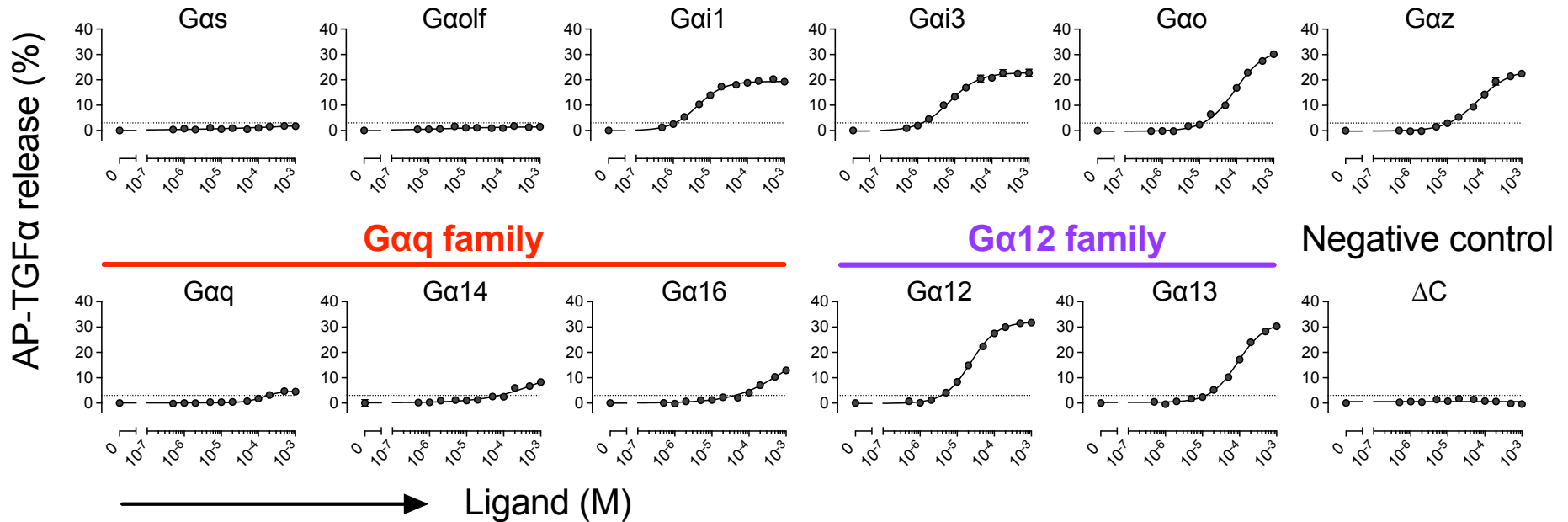
GPCR name: FFA3

Tested ligand: Propionic acid

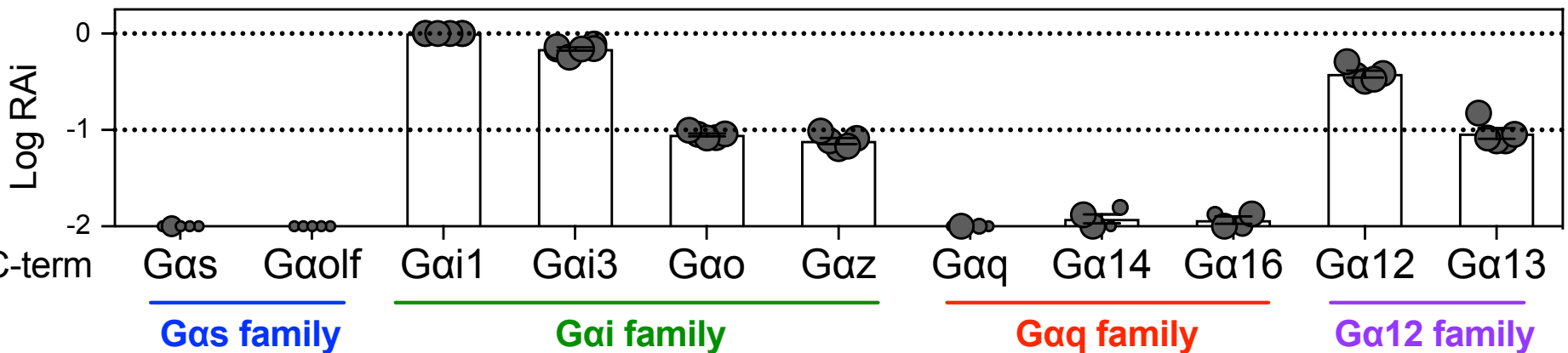
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *FFAR4*

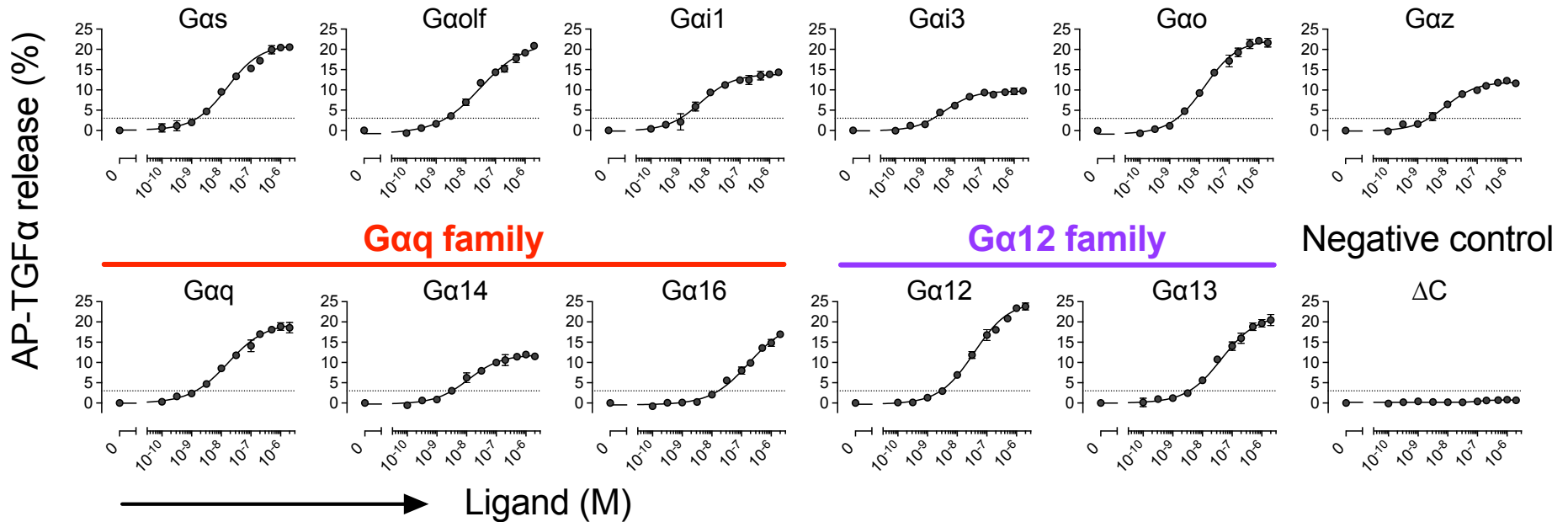
GPCR name: FFA4

Tested ligand: TUG 891

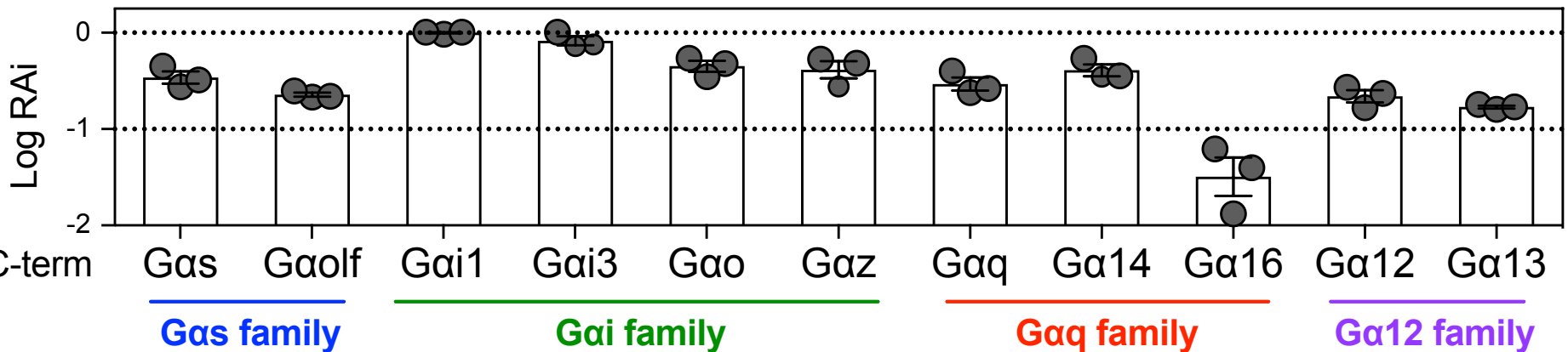
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *FPR1*

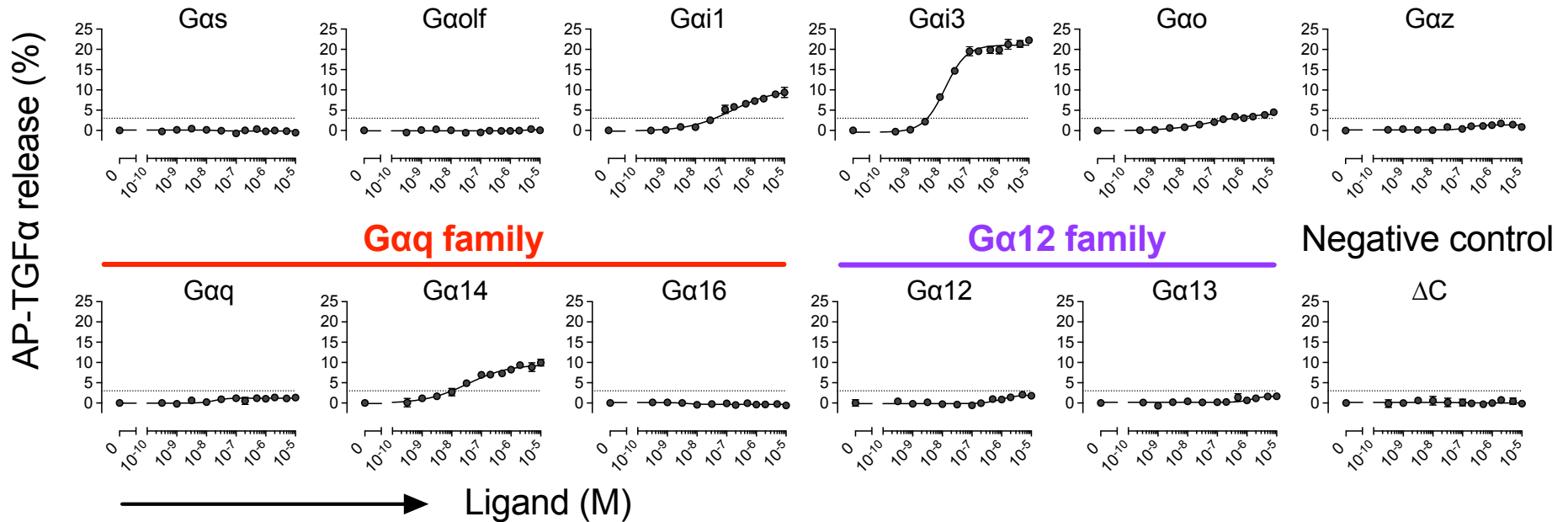
GPCR name: FPR1

Tested ligand: N-Formylmethionine-leucyl-phenylalanine (fMLP)

C-terminal chimera co-expression

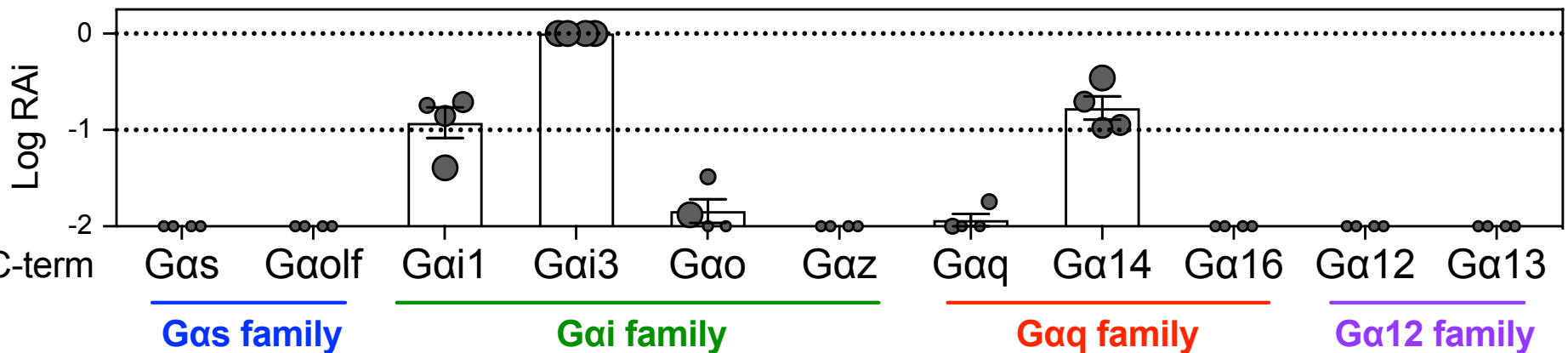
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *FPR2*

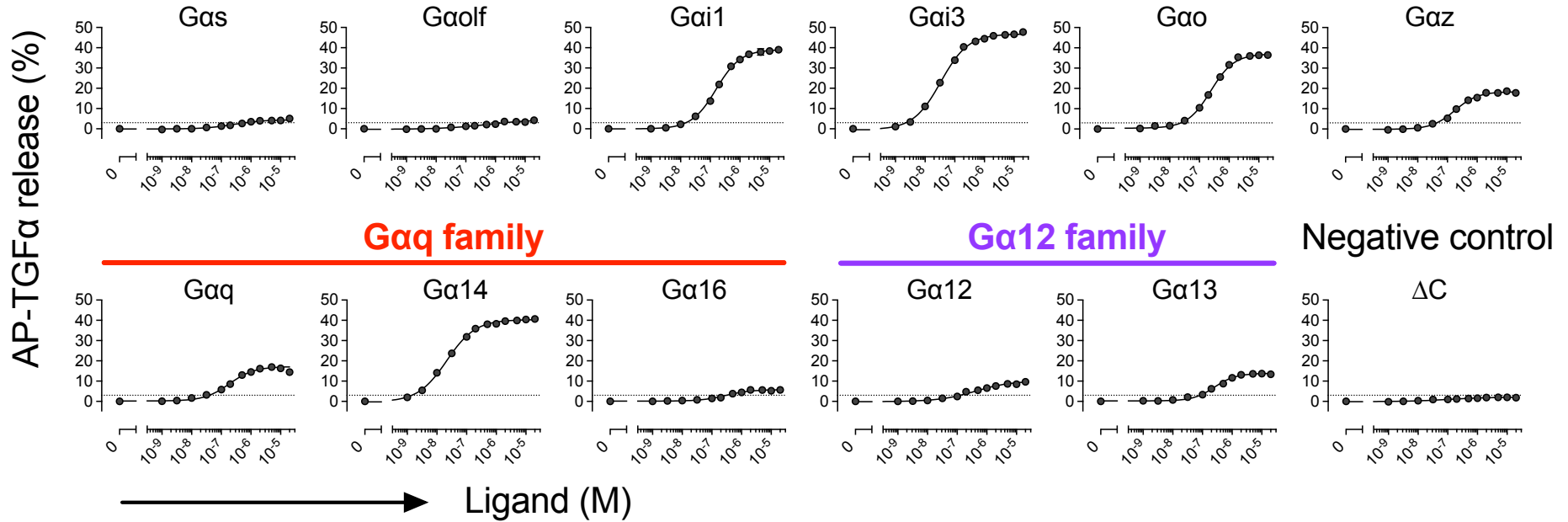
GPCR name: FPR2

Tested ligand: N

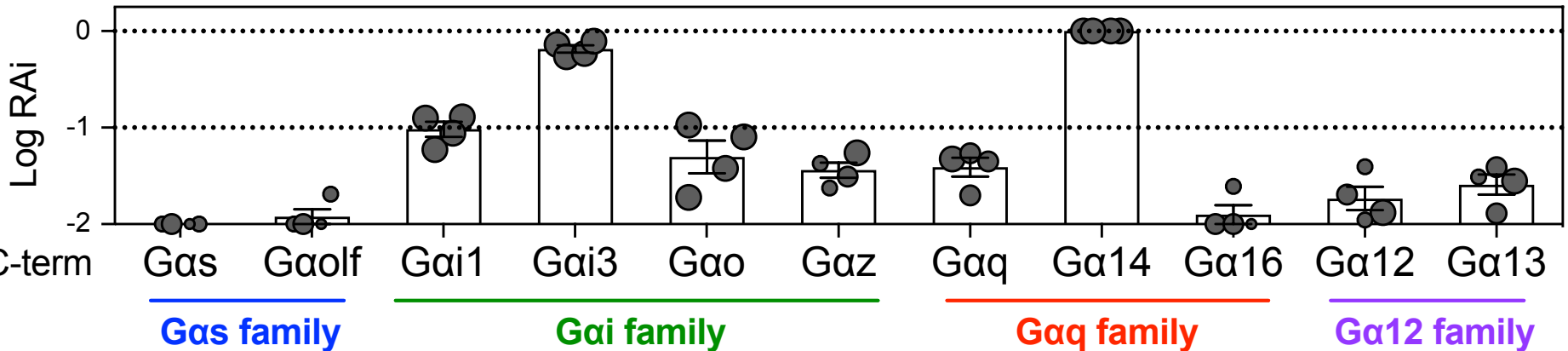
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GALR1*

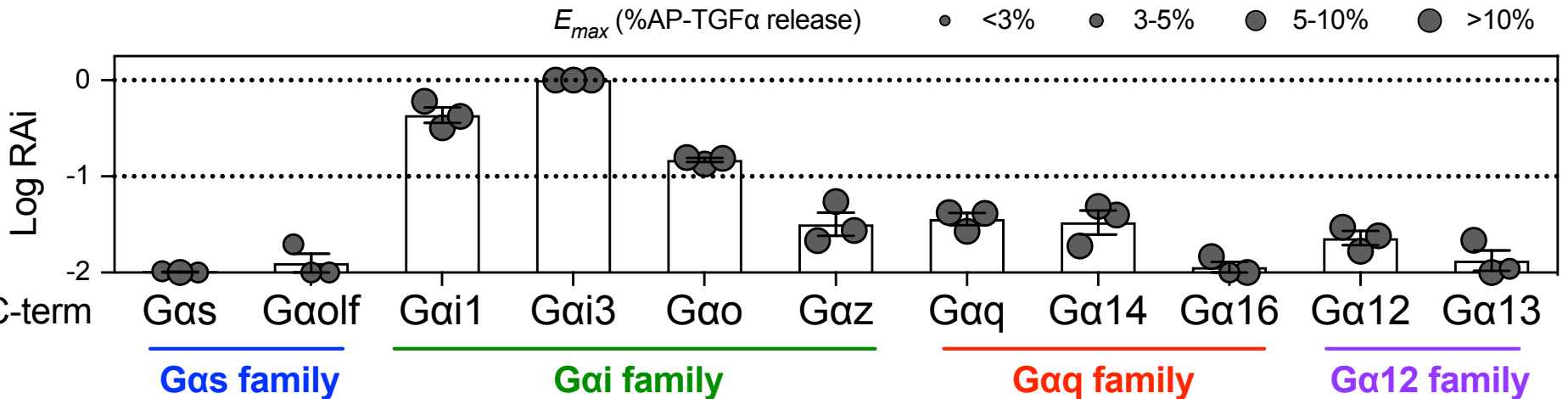
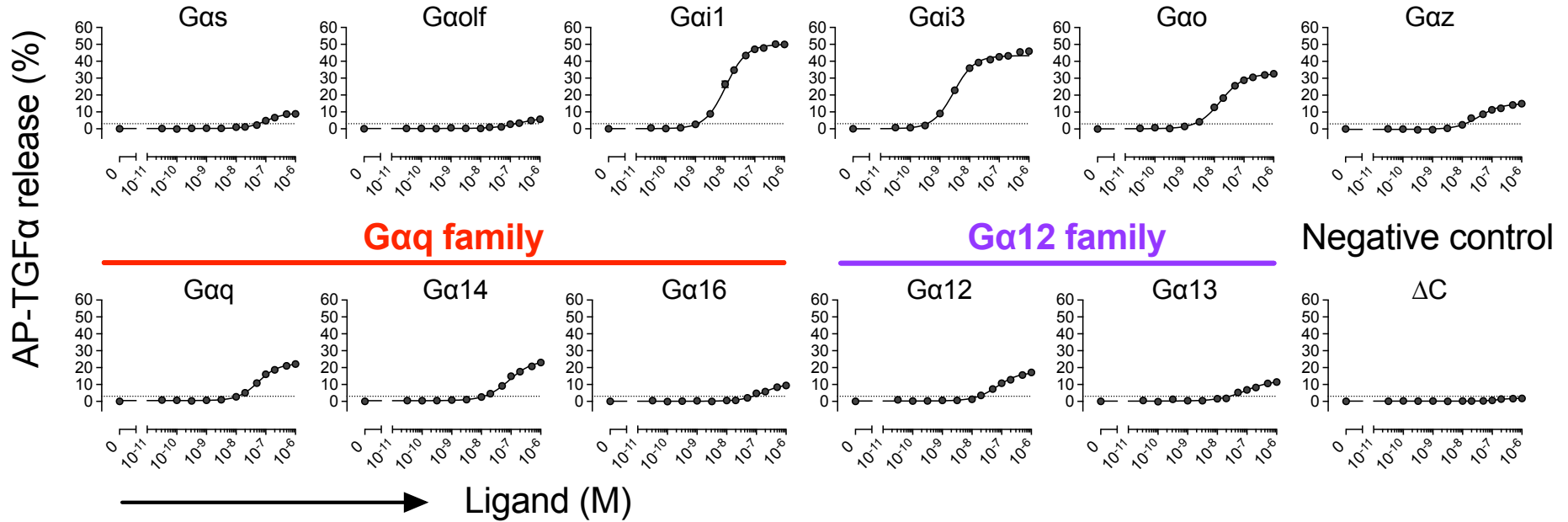
GPCR name: GAL1

Tested ligand: Galanin

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *GALR2*

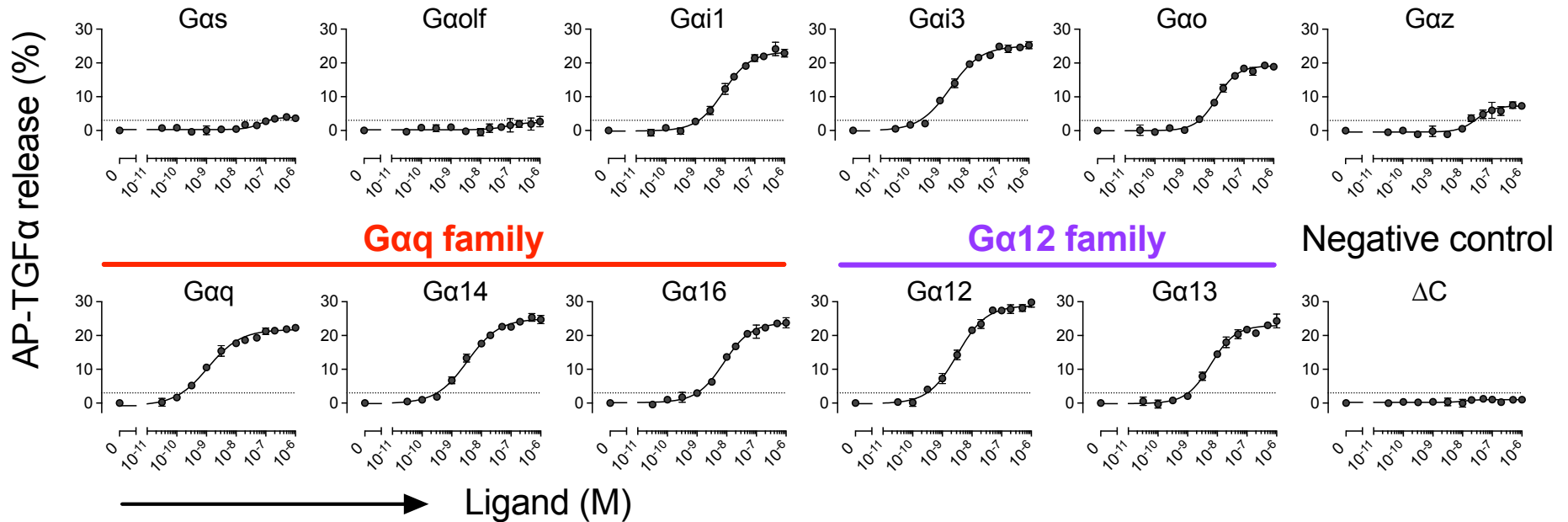
GPCR name: GAL2

Tested ligand: Galanin

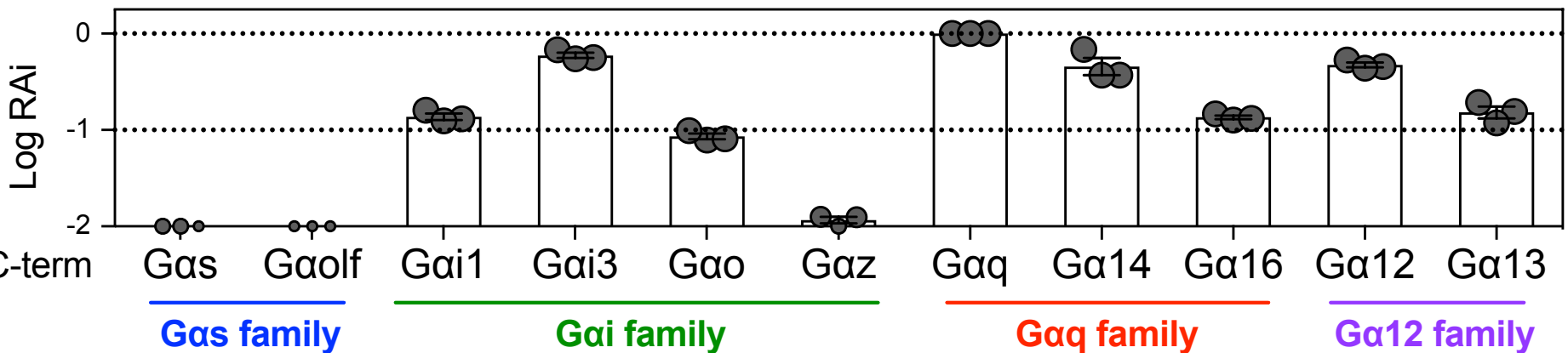
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) • <3% • 3-5% • 5-10% • >10%



GPCR gene symbol: *GALR3*

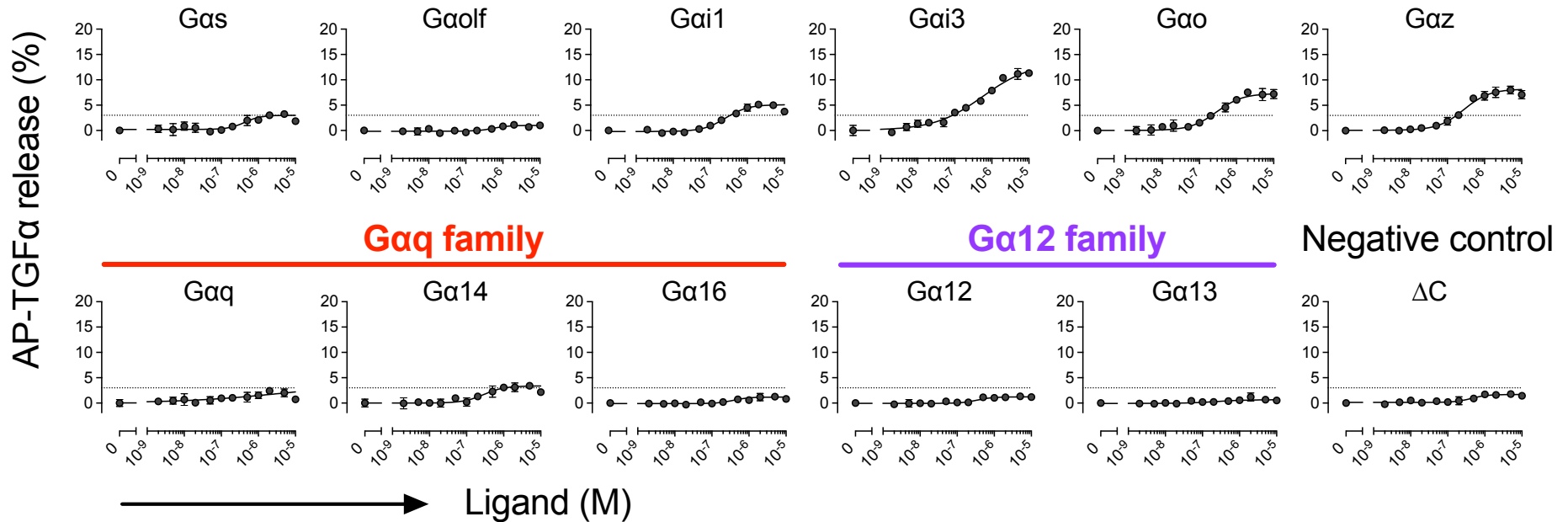
GPCR name: GAL3

Tested ligand: Galanin (rat)

C-terminal chimera co-expression

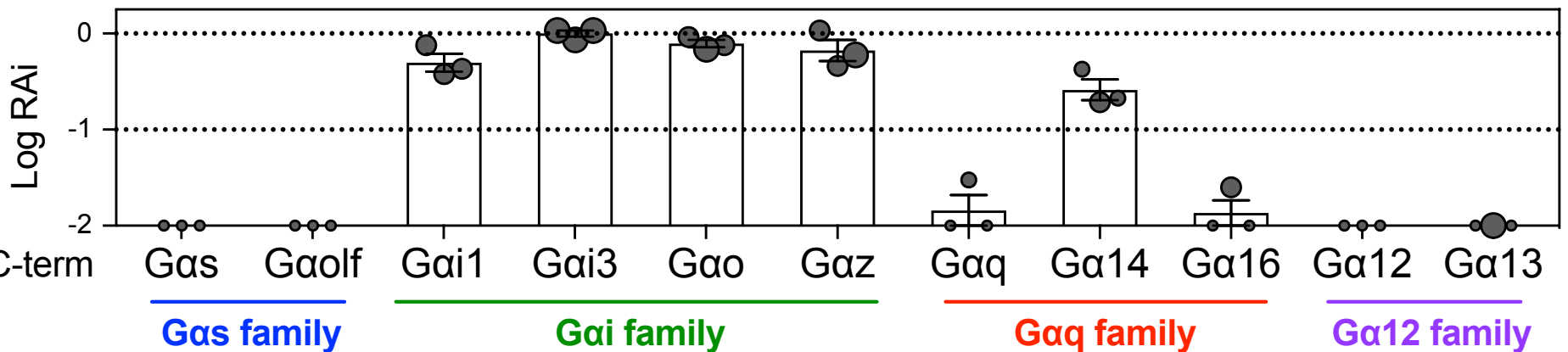
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GHSR*

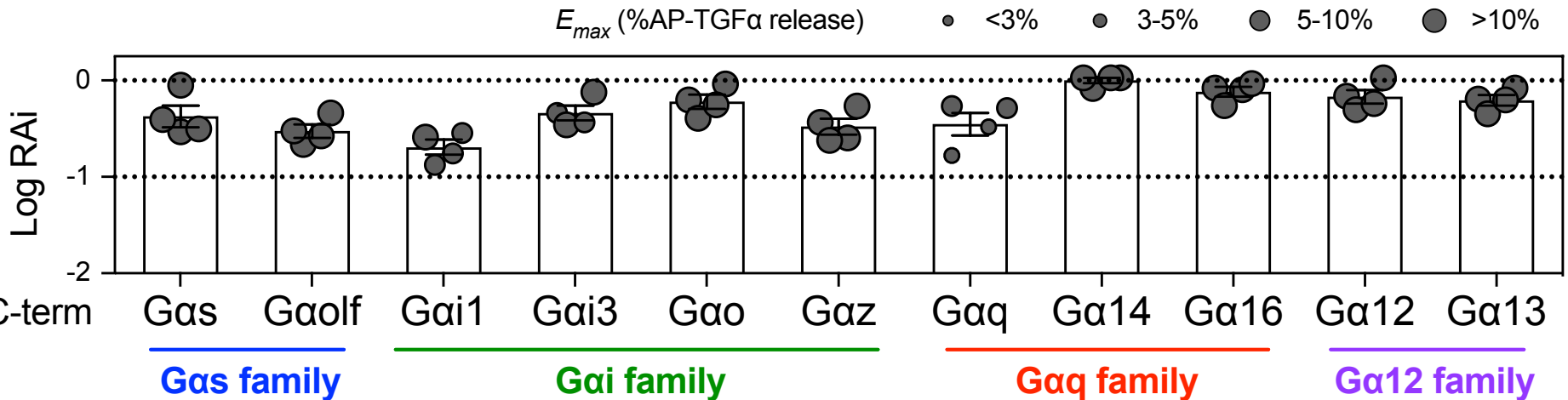
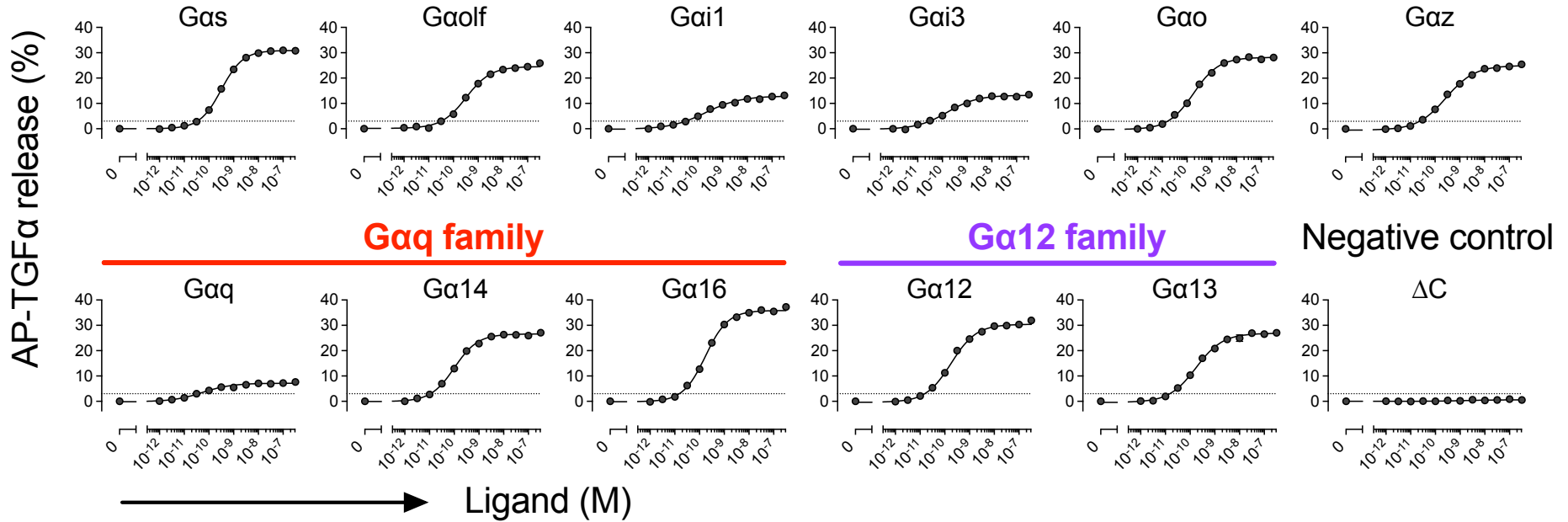
GPCR name: GHSR

Tested ligand: MK-0677

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *GIPR*

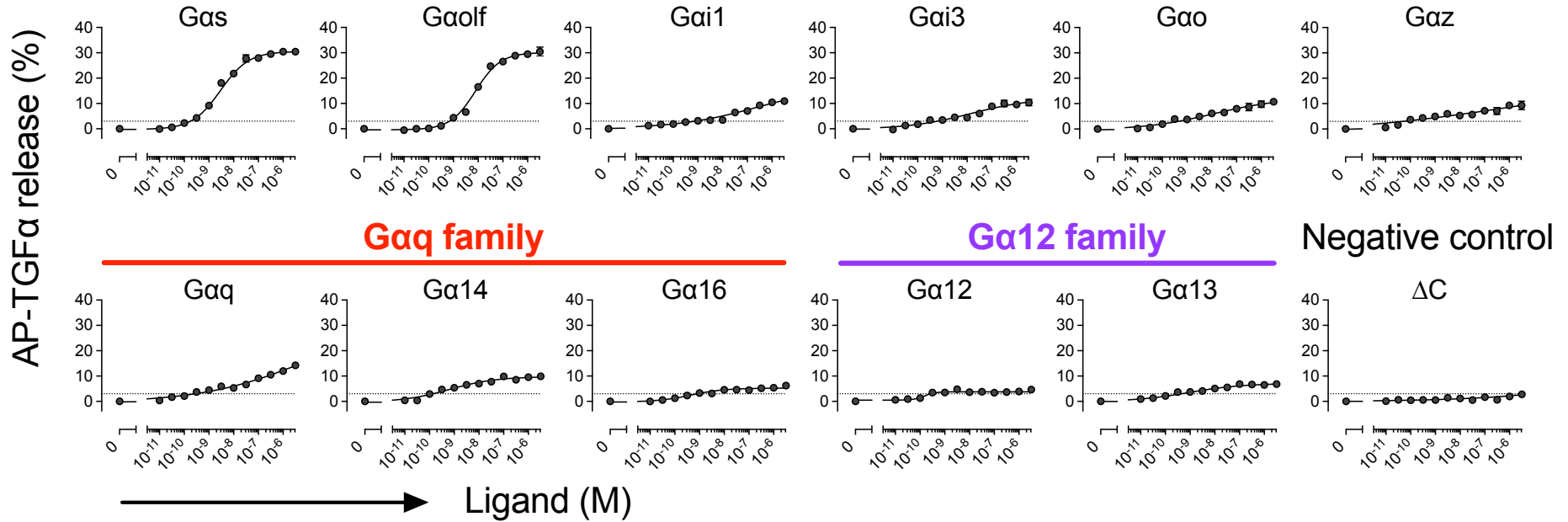
GPCR name: GIPR

Tested ligand: Gastric inhibitory polypeptide (GIP)

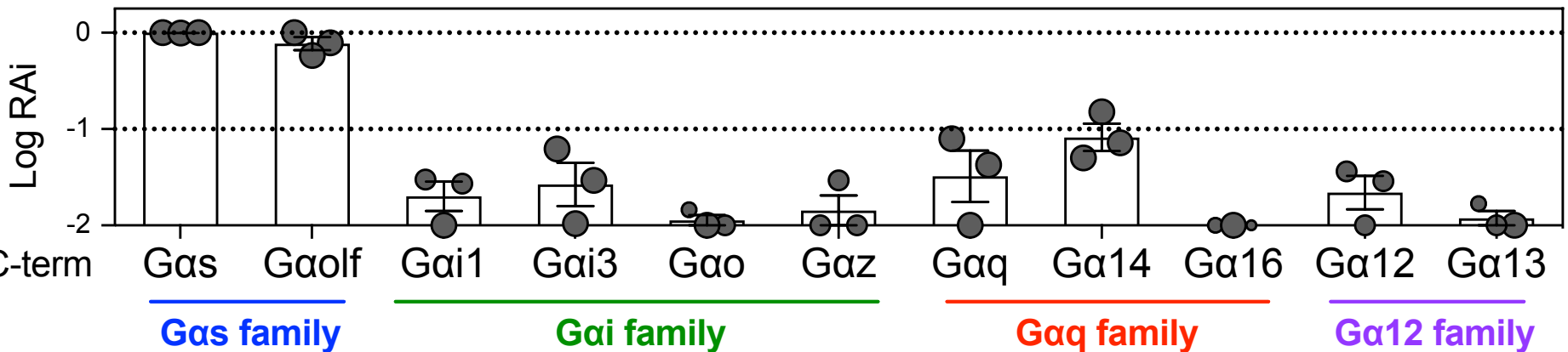
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) • <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GNRHR*

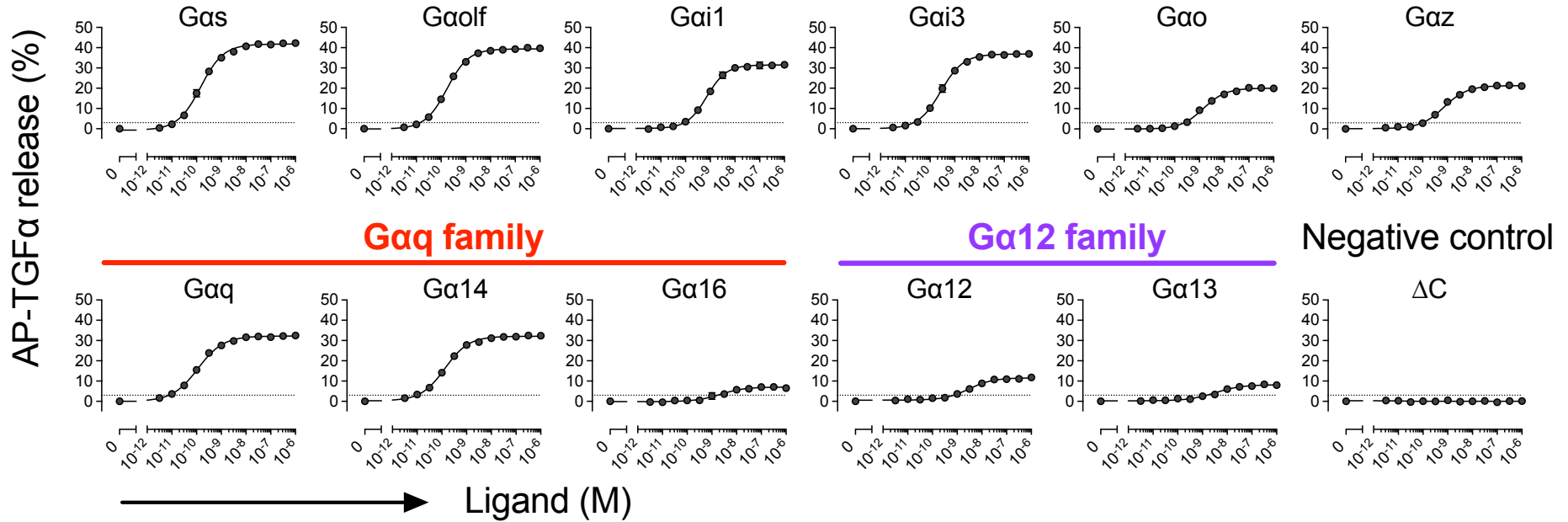
GPCR name: GNRHR

Tested ligand: Leuprolide

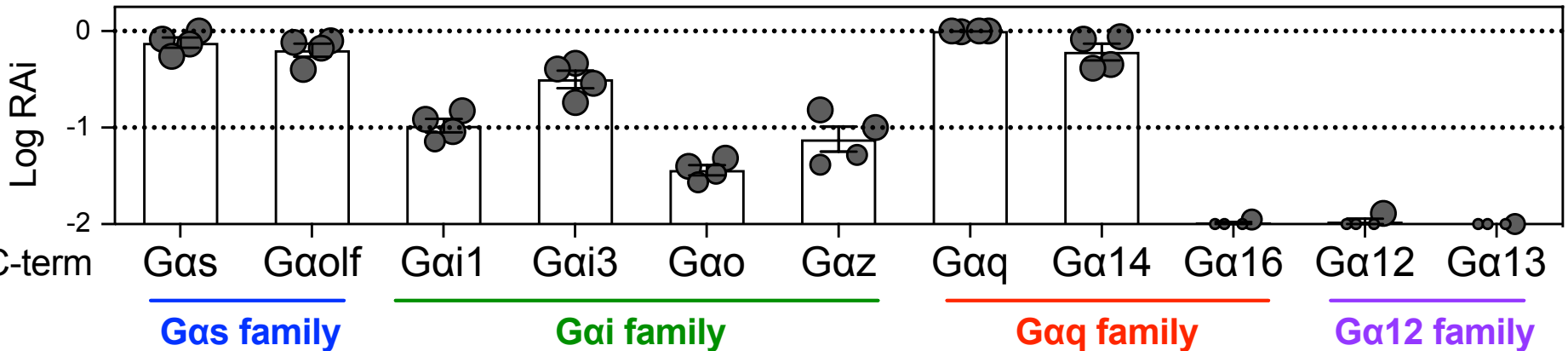
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GPR119*

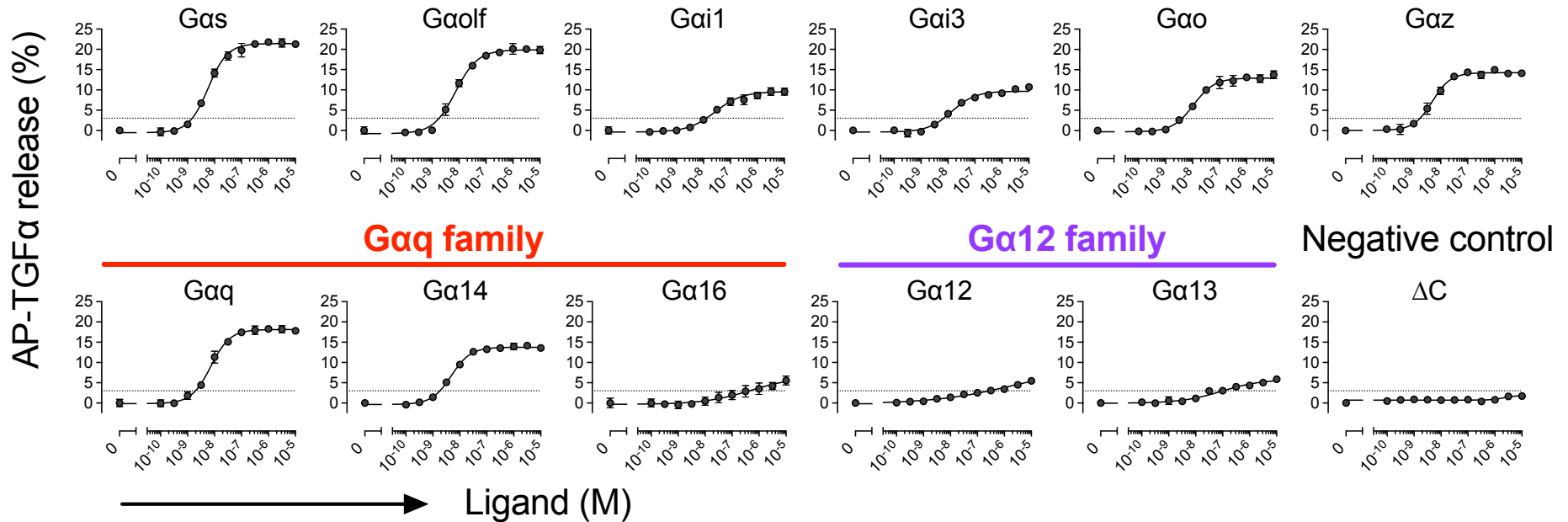
GPCR name: GPR119

Tested ligand: GSK1292263

C-terminal chimera co-expression

Gas family

Gai family



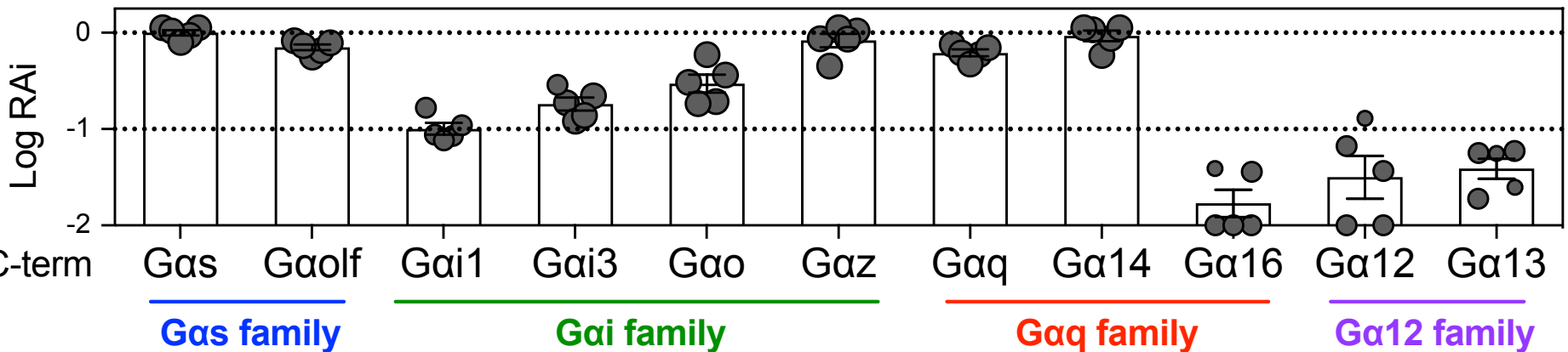
E_{max} (%AP-TGFα release)

• <math><3\%</math>

• $3-5\%$

• $5-10\%$

• $>10\%$



GPCR gene symbol: *GPR132*

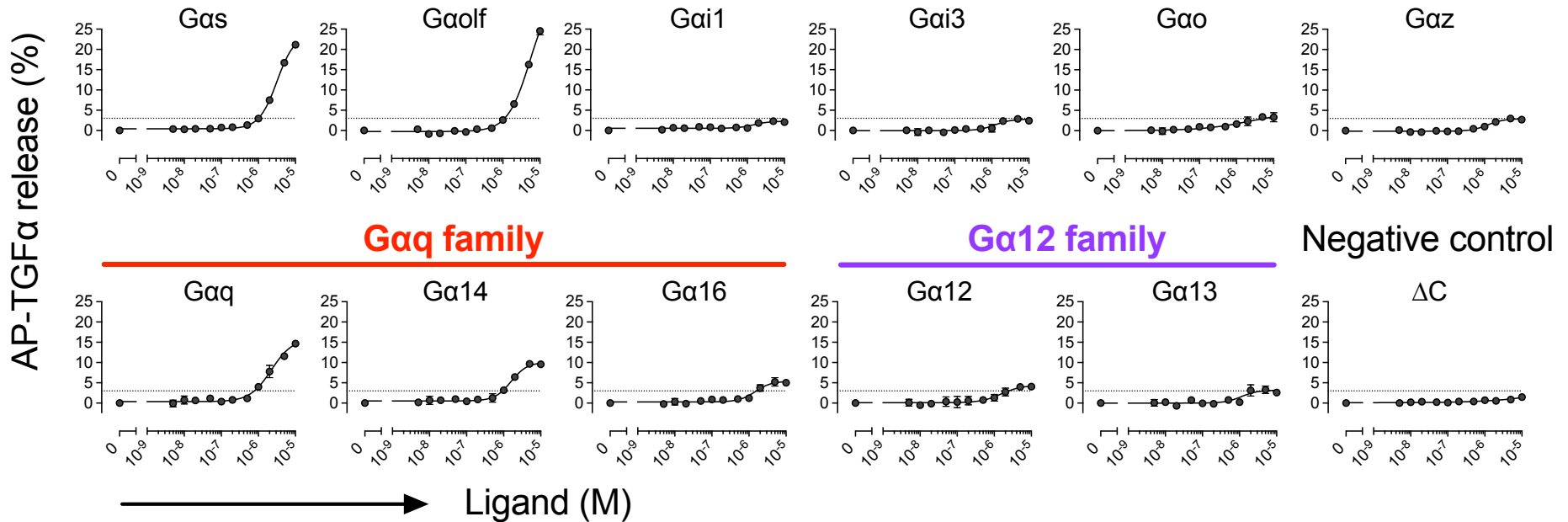
GPCR name: G2A

Tested ligand: 9-Hydroxyoctadecadienoic acid

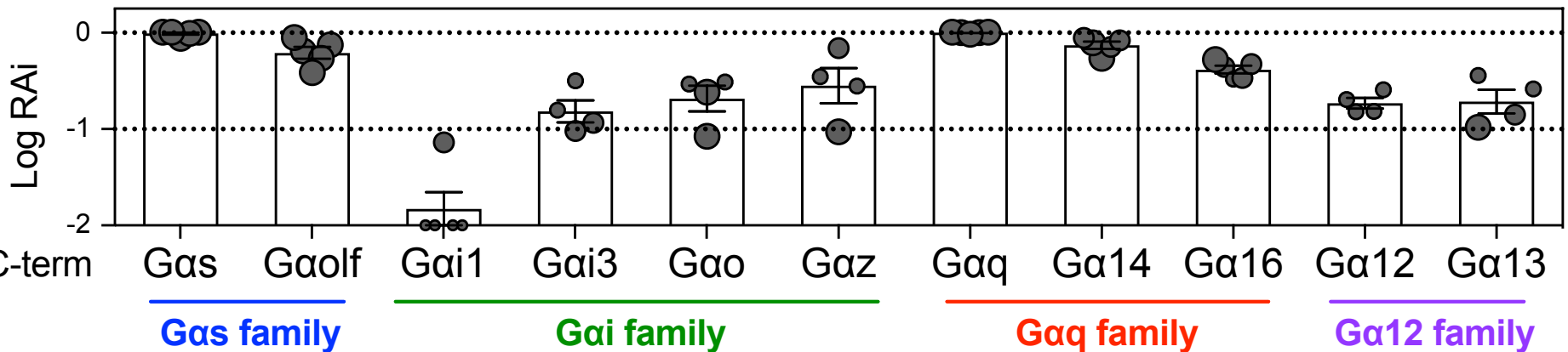
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GPR17*

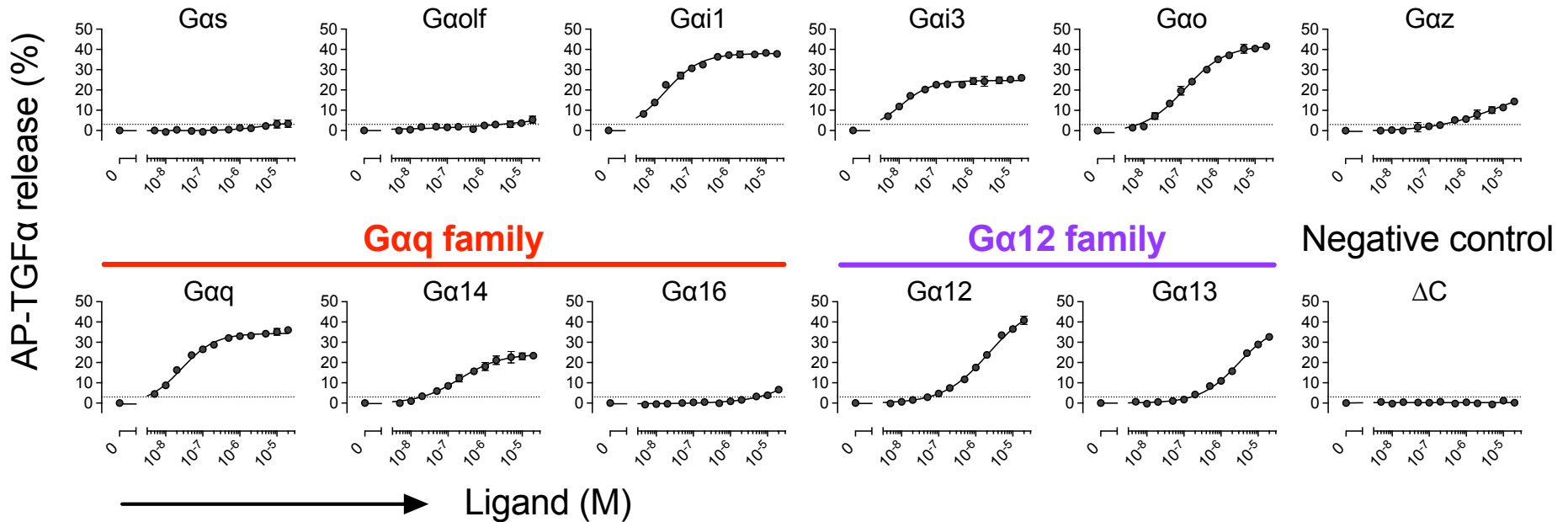
GPCR name: GPR17

Tested ligand: MDL29951

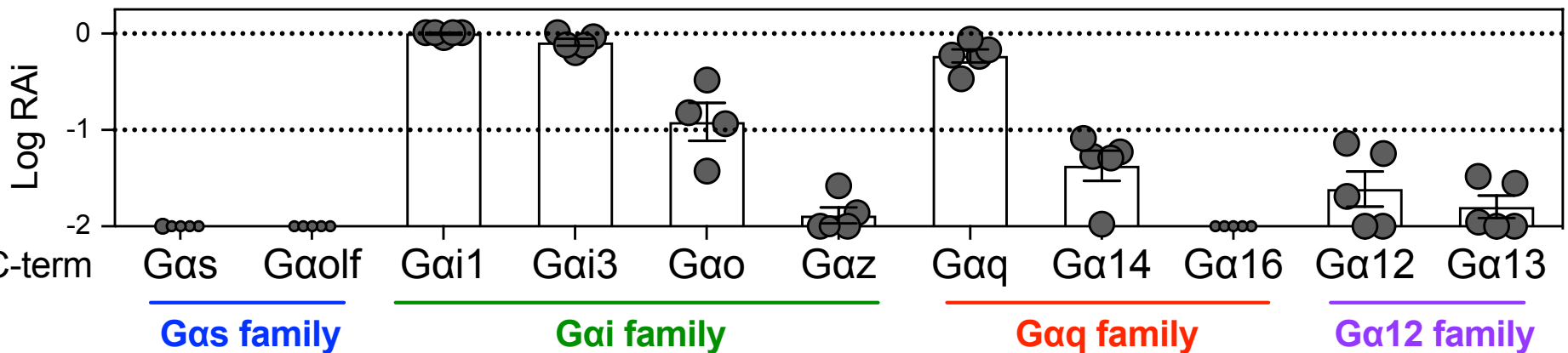
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GPR174*

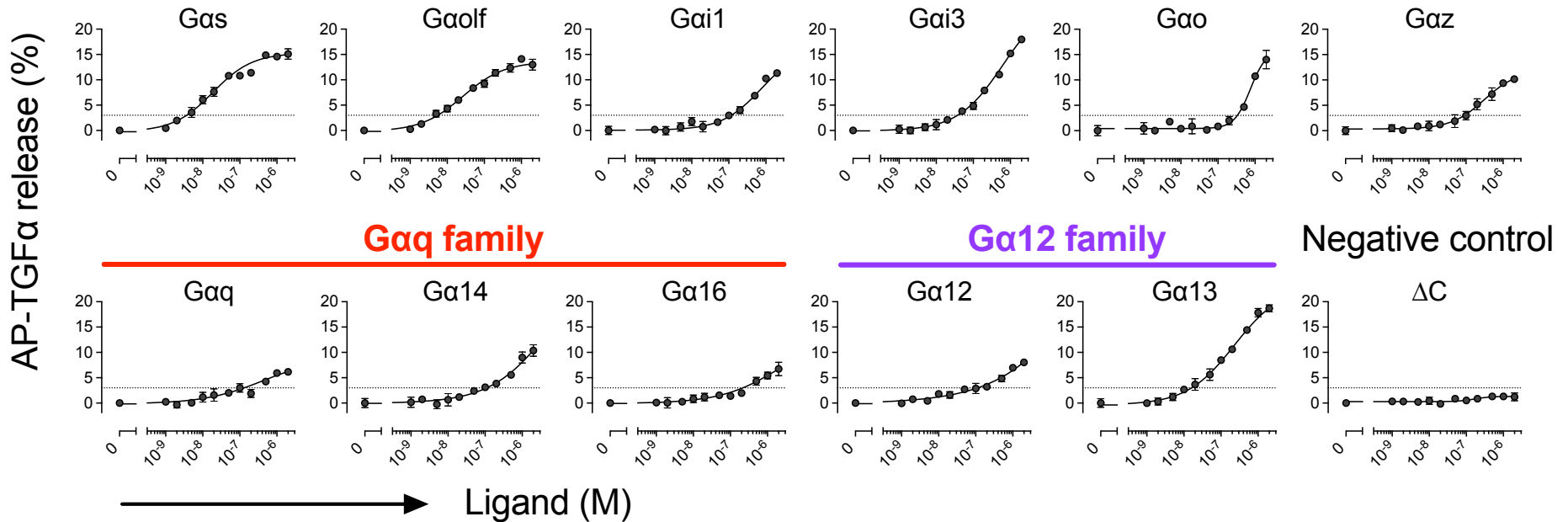
GPCR name: GPR174

Tested ligand: Lysophosphatidylserine

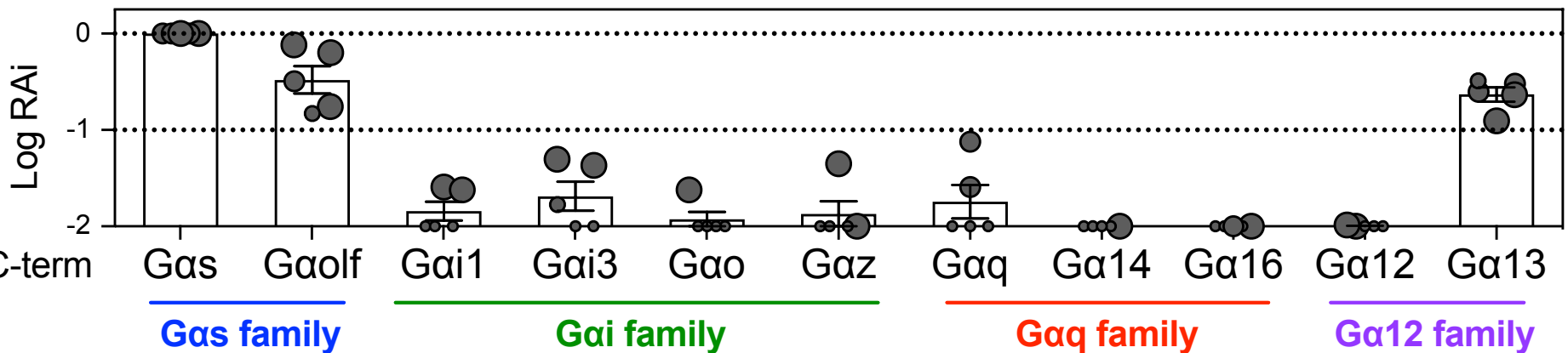
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GPR183*

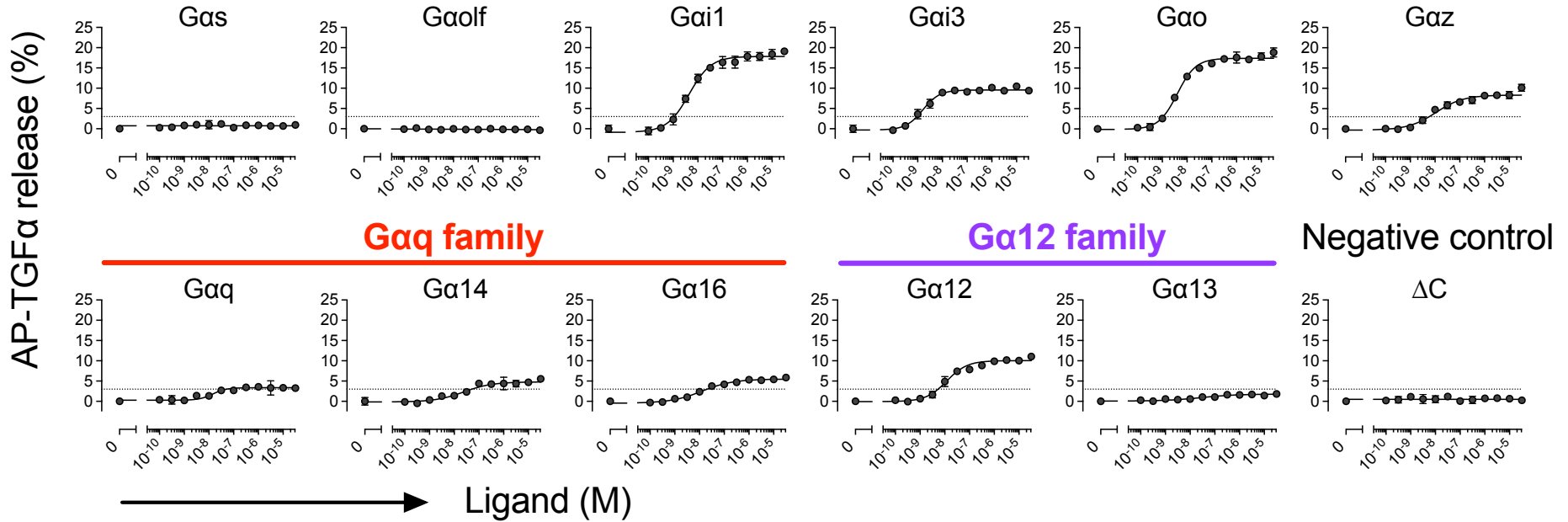
GPCR name: EBI2

Tested ligand: 7 α , 25-Dyhydroxycholesterol

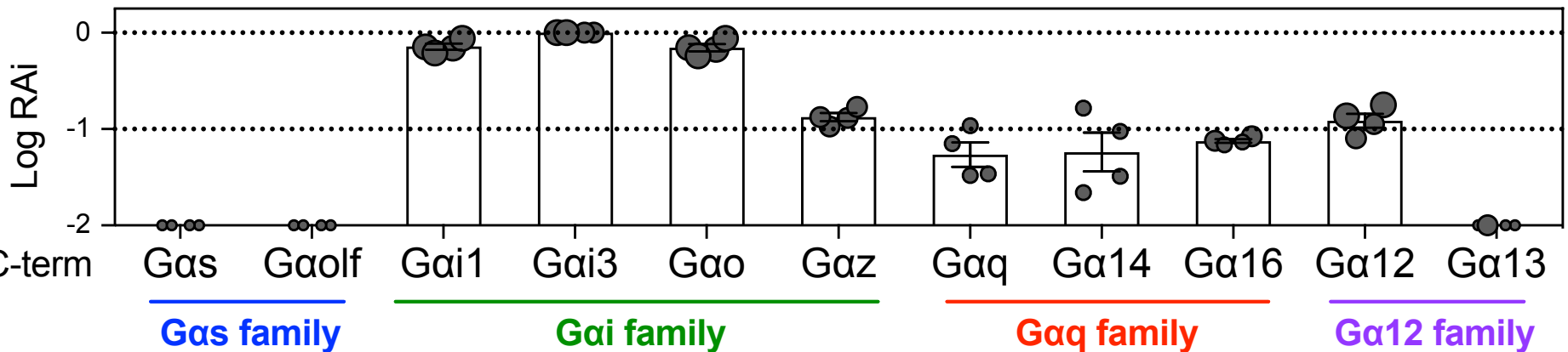
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



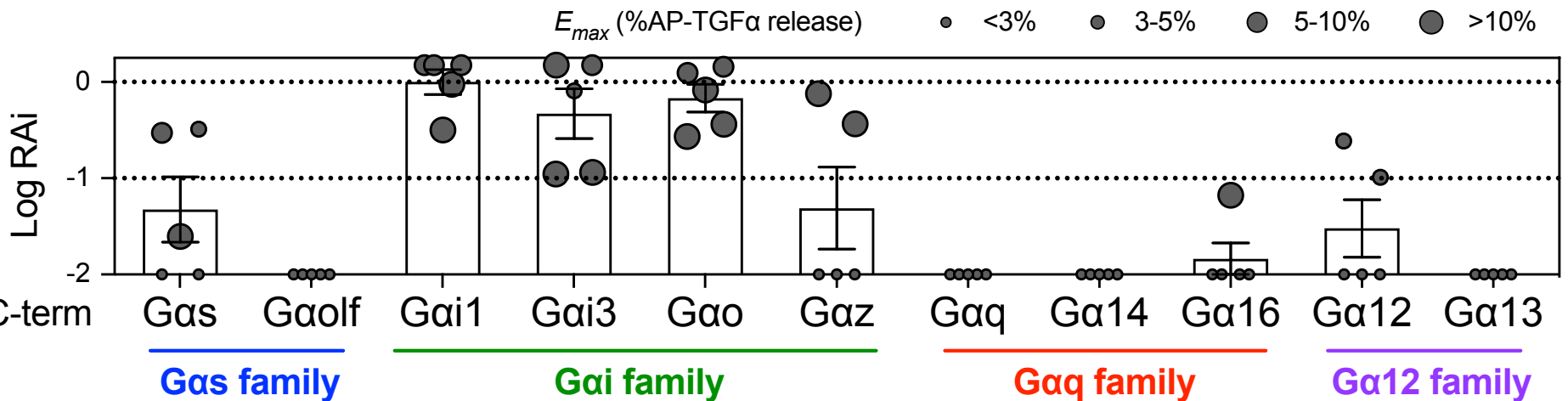
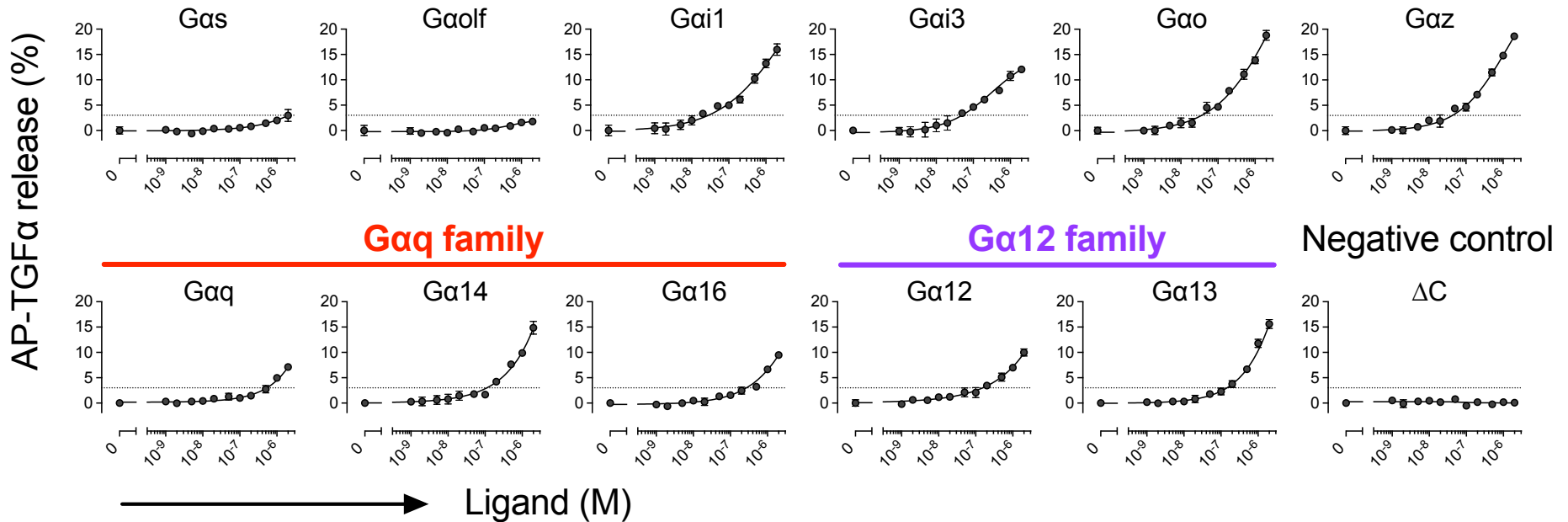
GPCR gene symbol: *GPR34*

GPCR name: GPR34

Tested ligand: Lysophosphatidylserine

C-terminal chimera co-expression

Gas family



GPCR gene symbol: *GPR35*

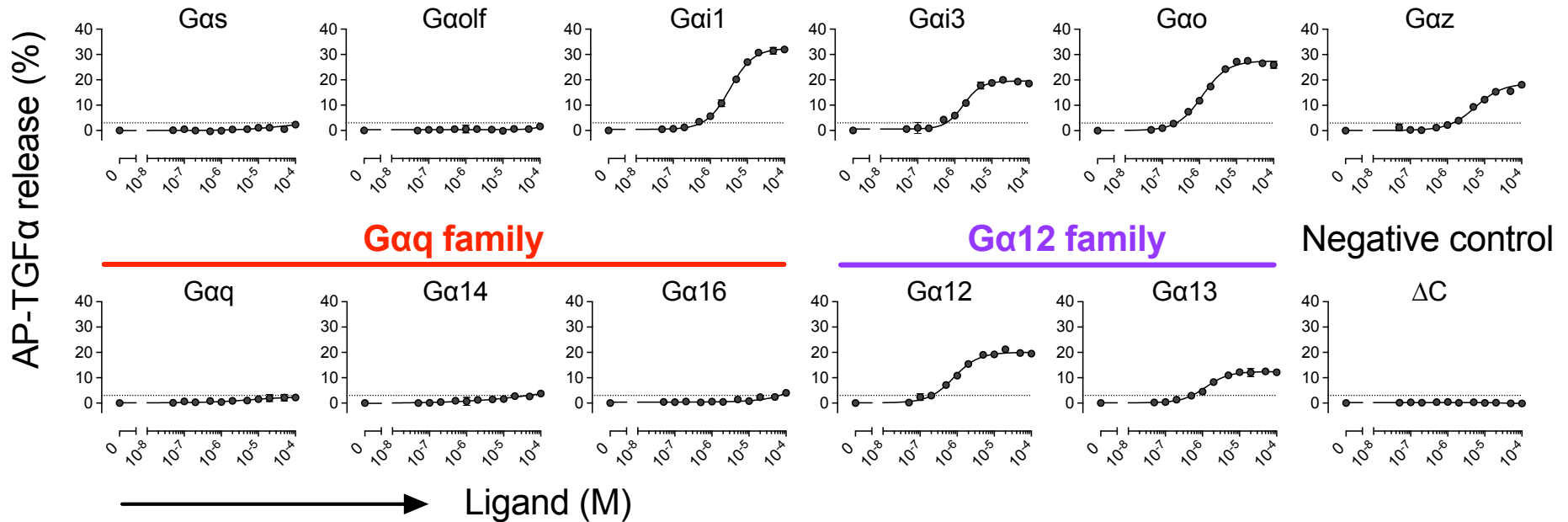
GPCR name: GPR35

Tested ligand: Zaprinast

C-terminal chimera co-expression

Gas family

Gai family



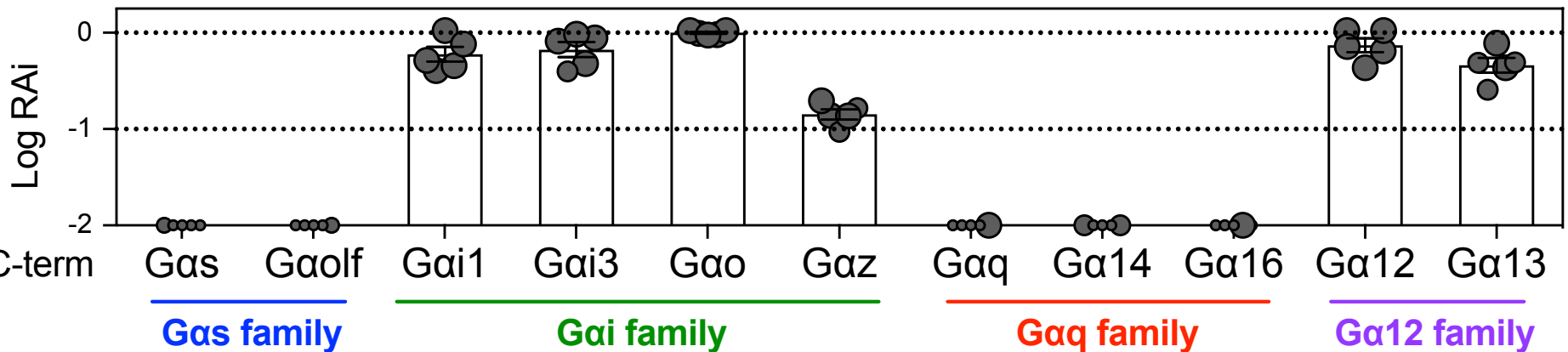
E_{max} (%AP-TGFα release)

● <3%

● 3-5%

● 5-10%

● >10%



GPCR gene symbol: *GPR55*

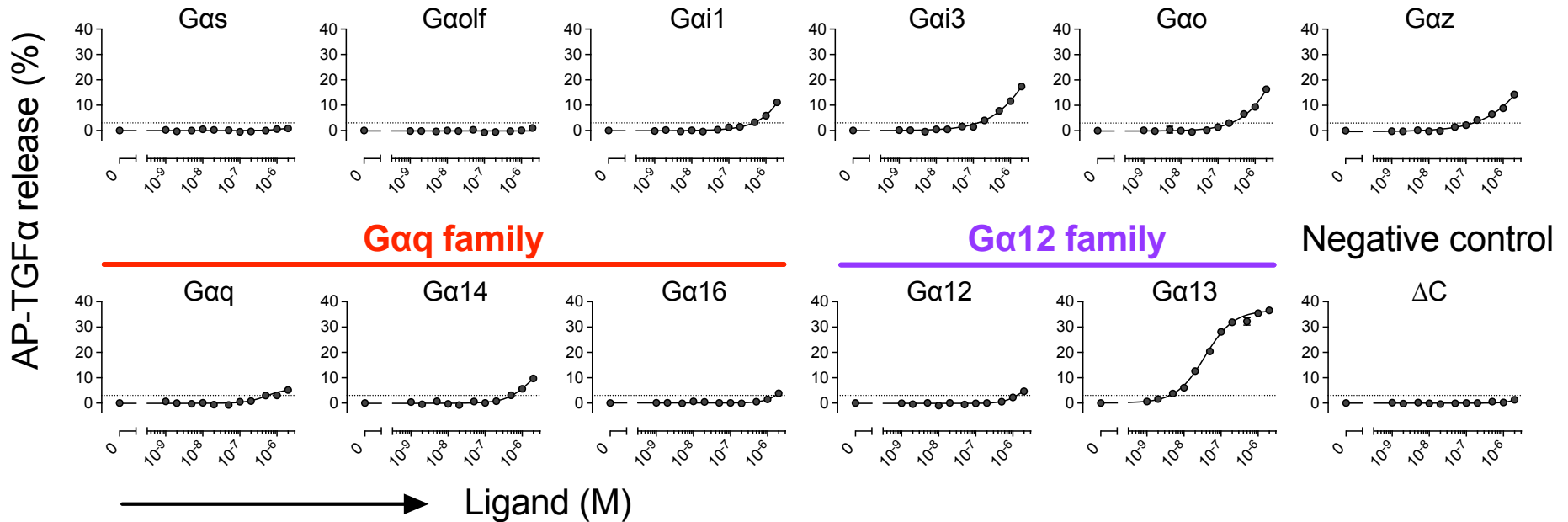
GPCR name: GPR55

Tested ligand: Lyso-phosphatidylinositol

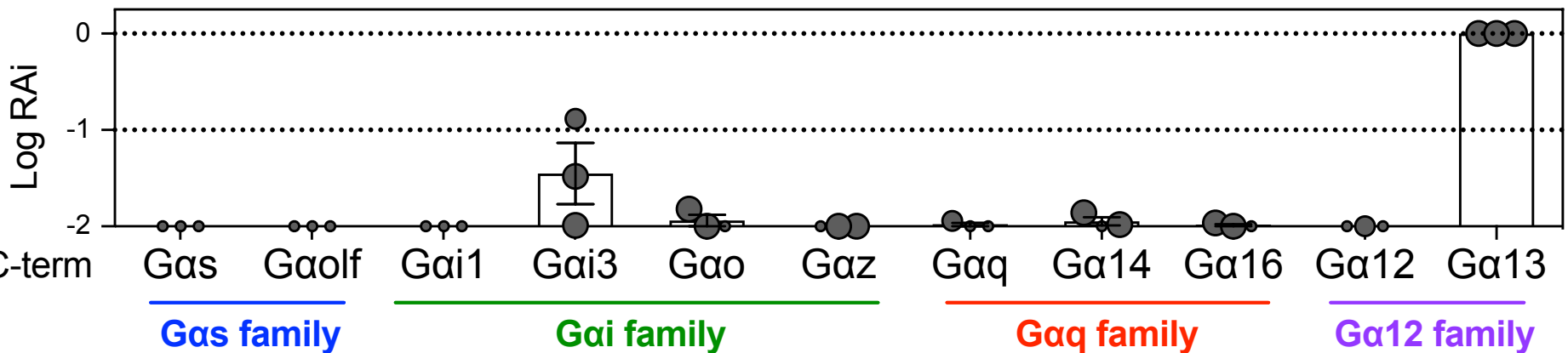
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GPR84*

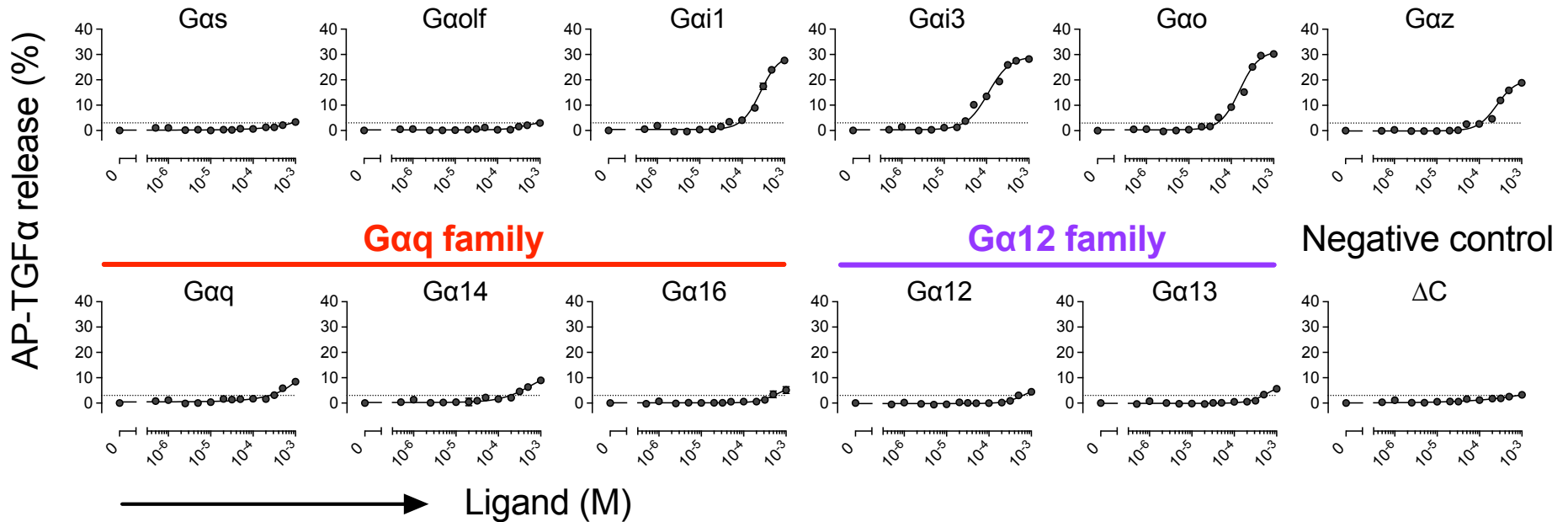
GPCR name: GPR84

Tested ligand: Capric acid

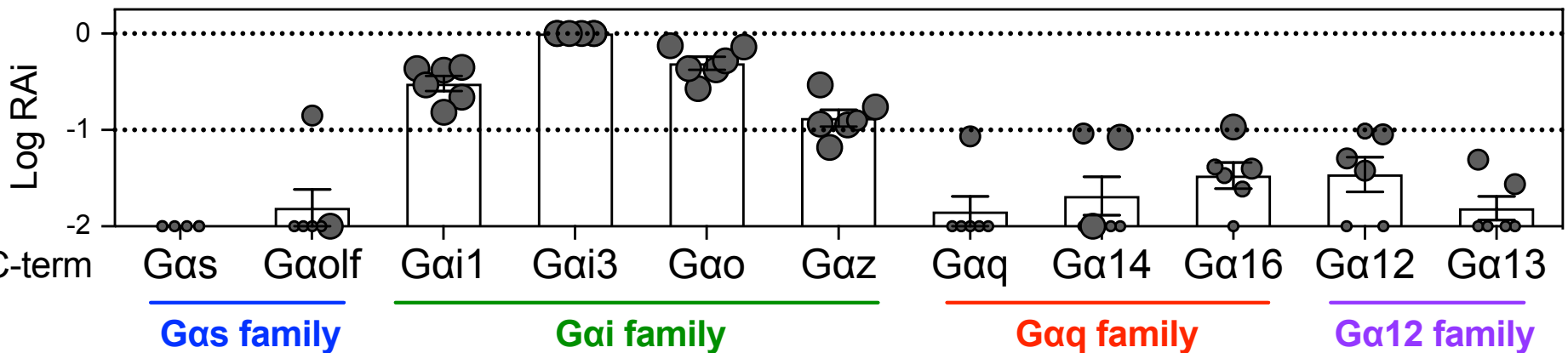
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *GRPR*

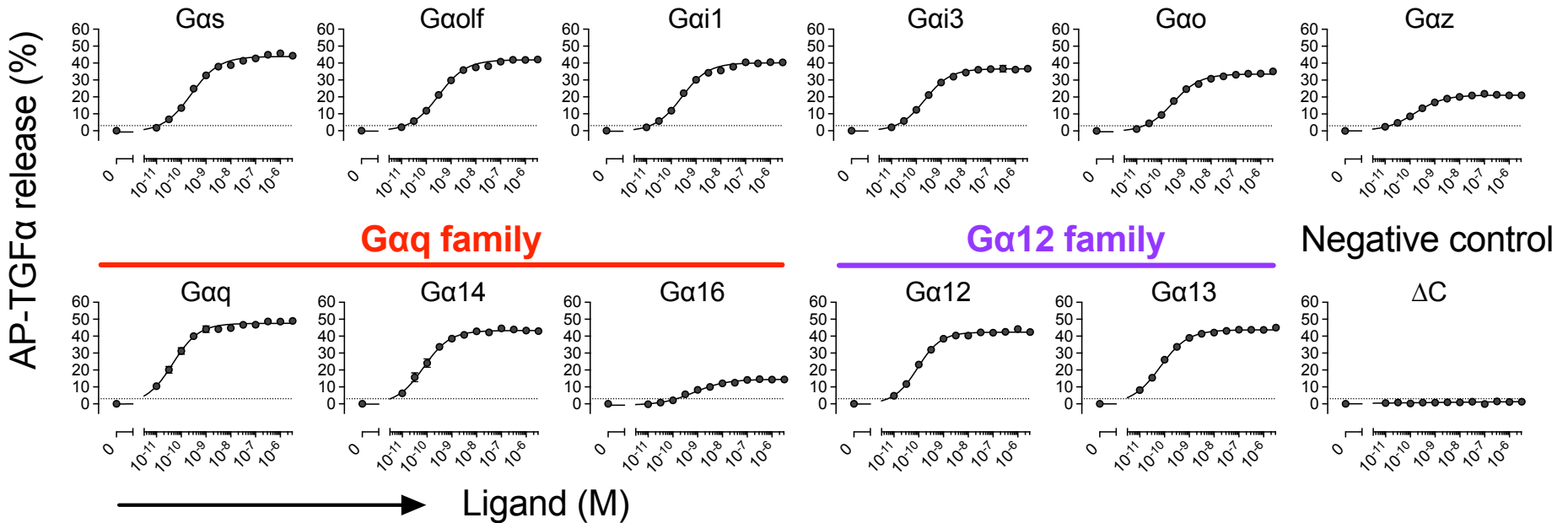
GPCR name: BB2

Tested ligand: Bombesin

C-terminal chimera co-expression

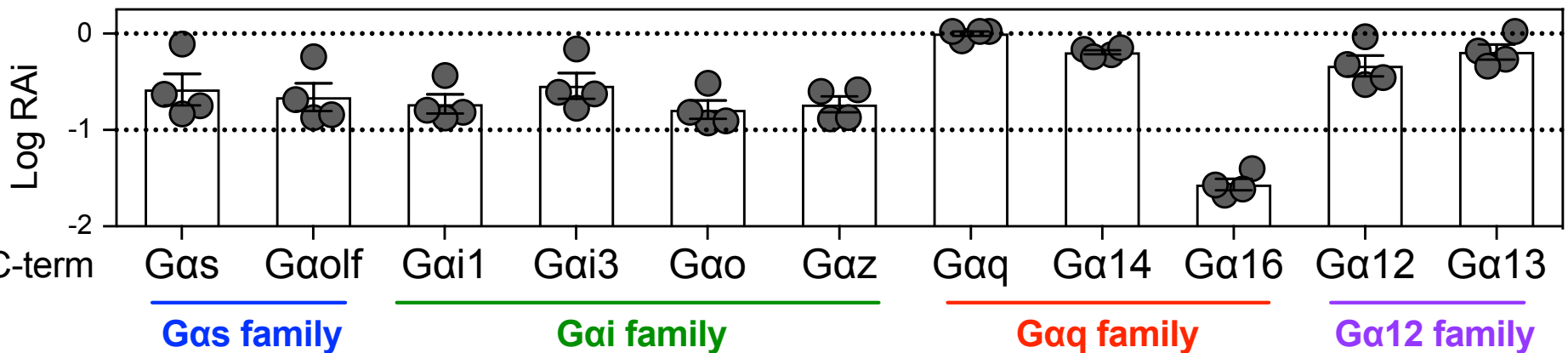
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HCRTR1*

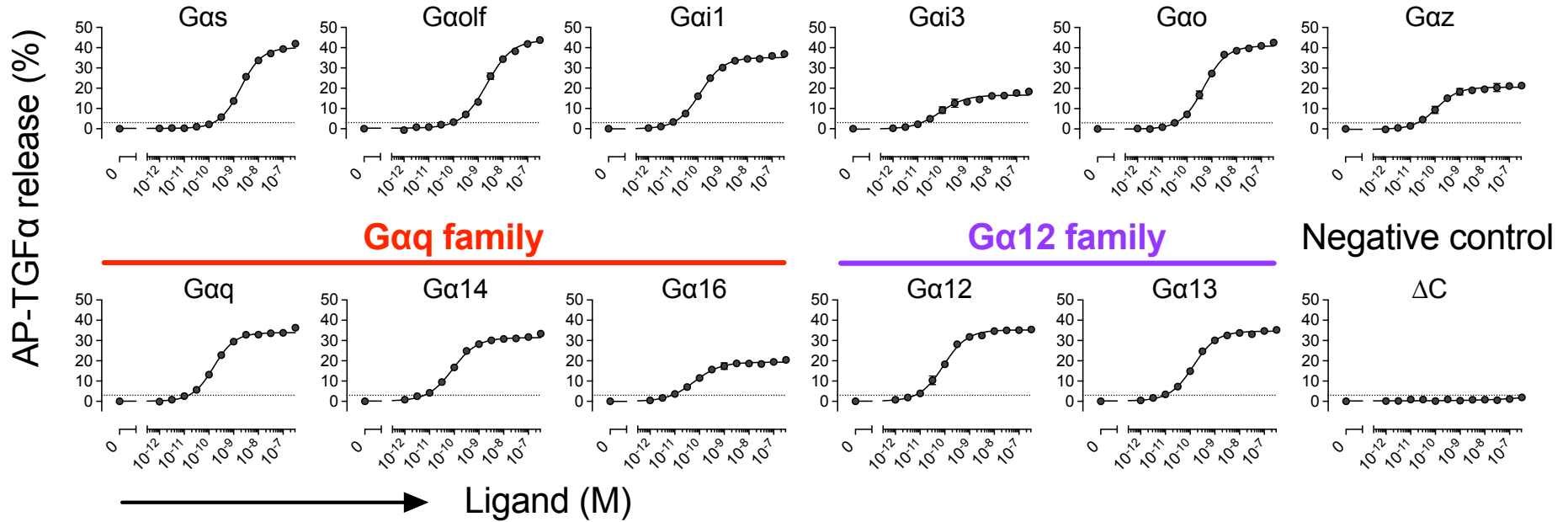
GPCR name: OX1

Tested ligand: Orexin-A

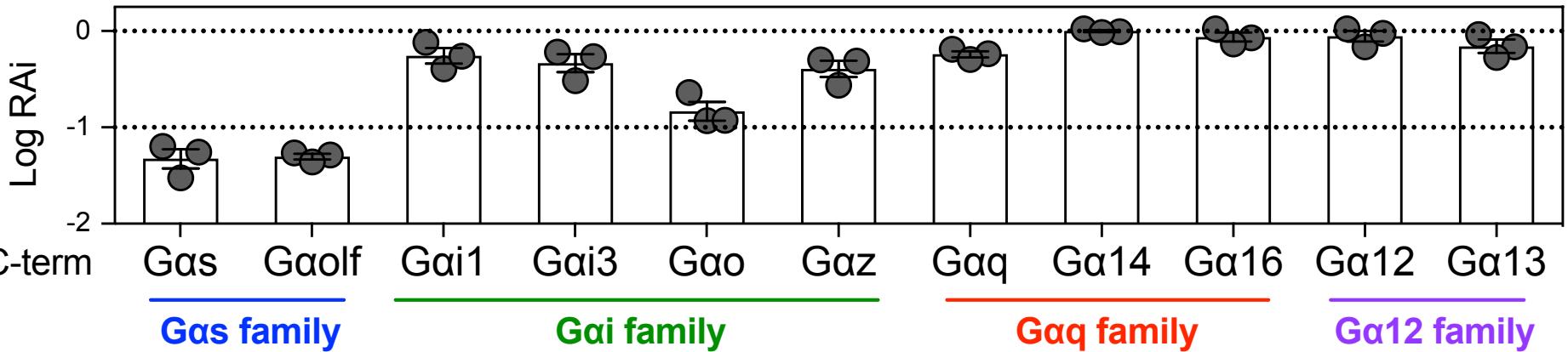
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HCRTR2*

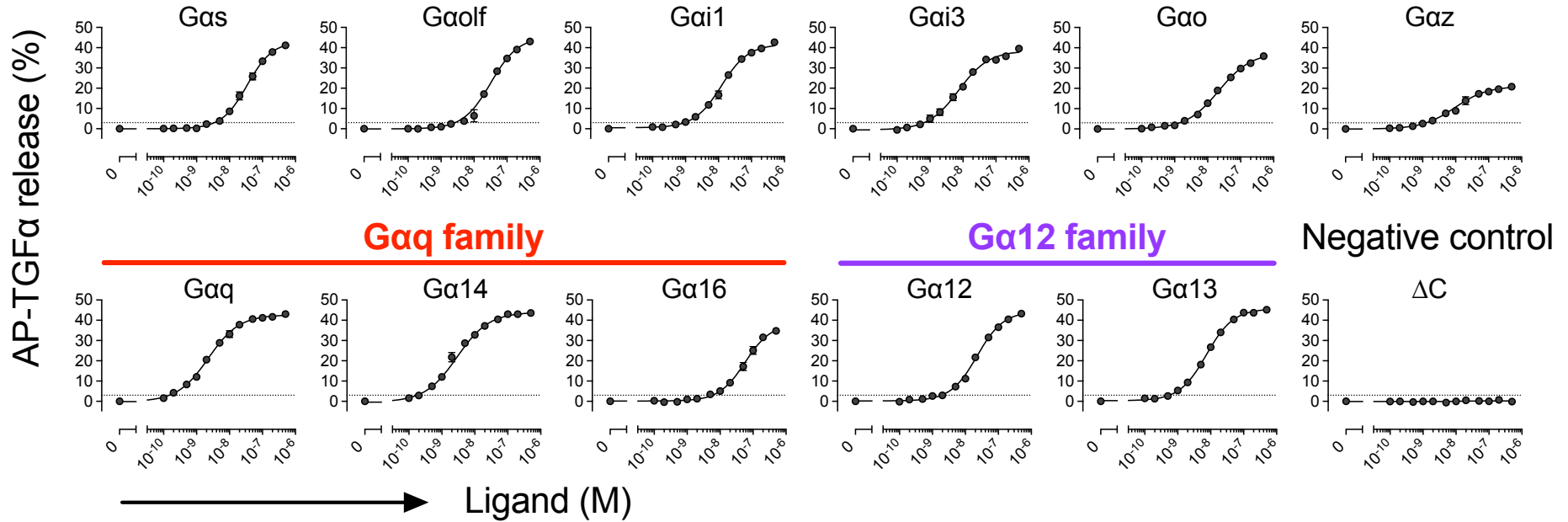
GPCR name: OX2

Tested ligand: Orexin-A

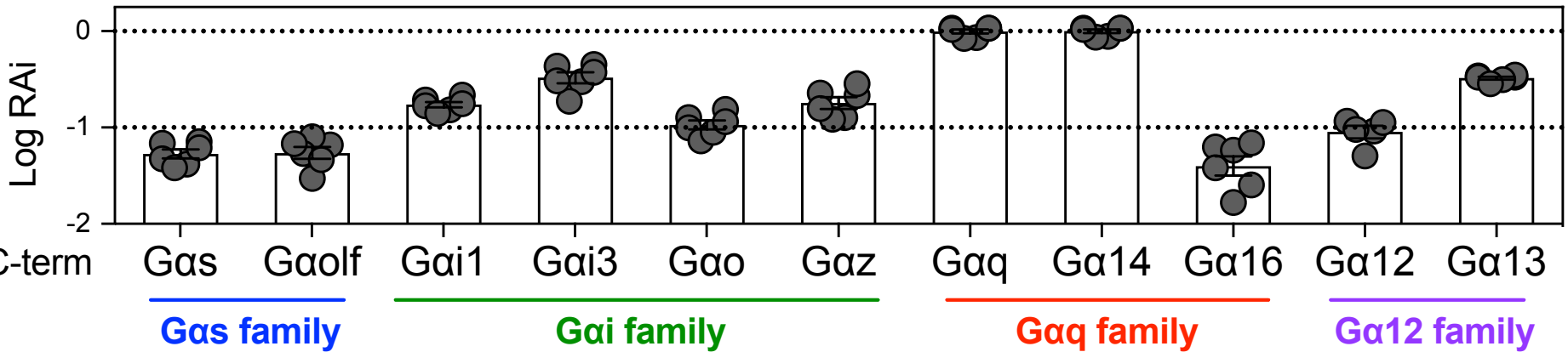
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HRH1*

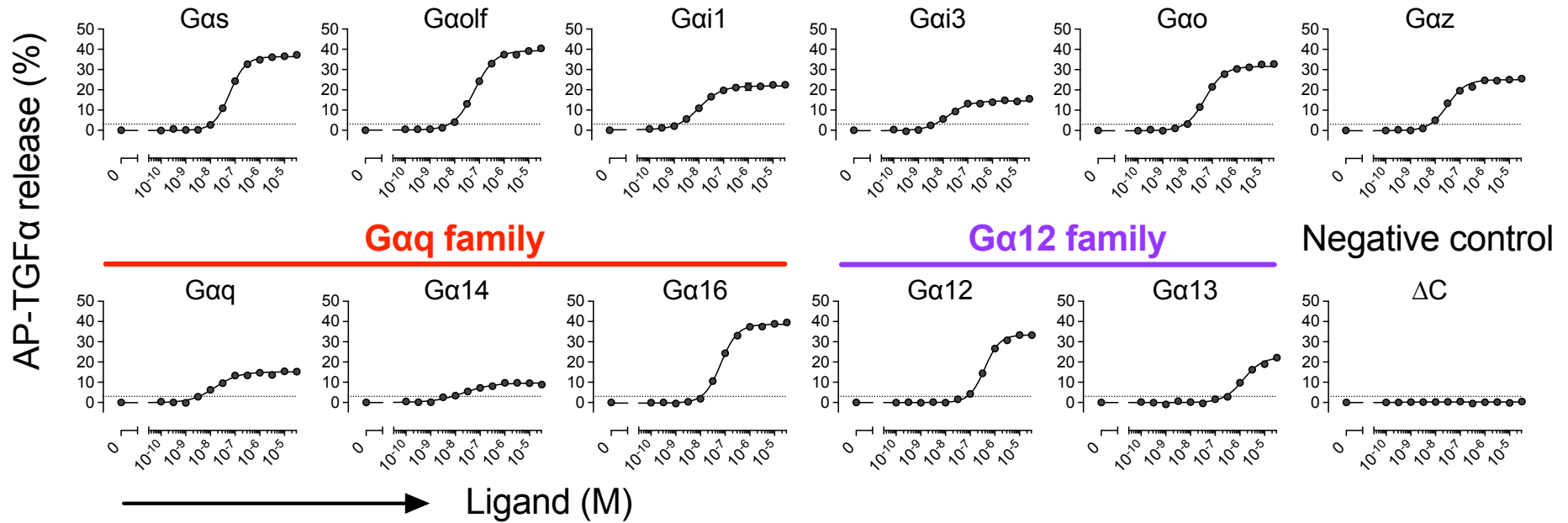
GPCR name: H1

Tested ligand: Histamine

C-terminal chimera co-expression

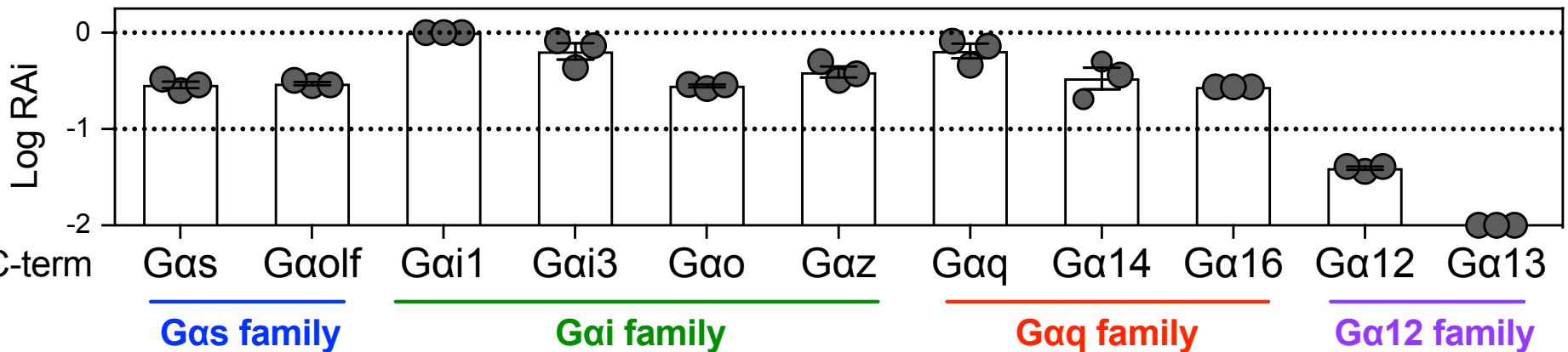
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HRH2*

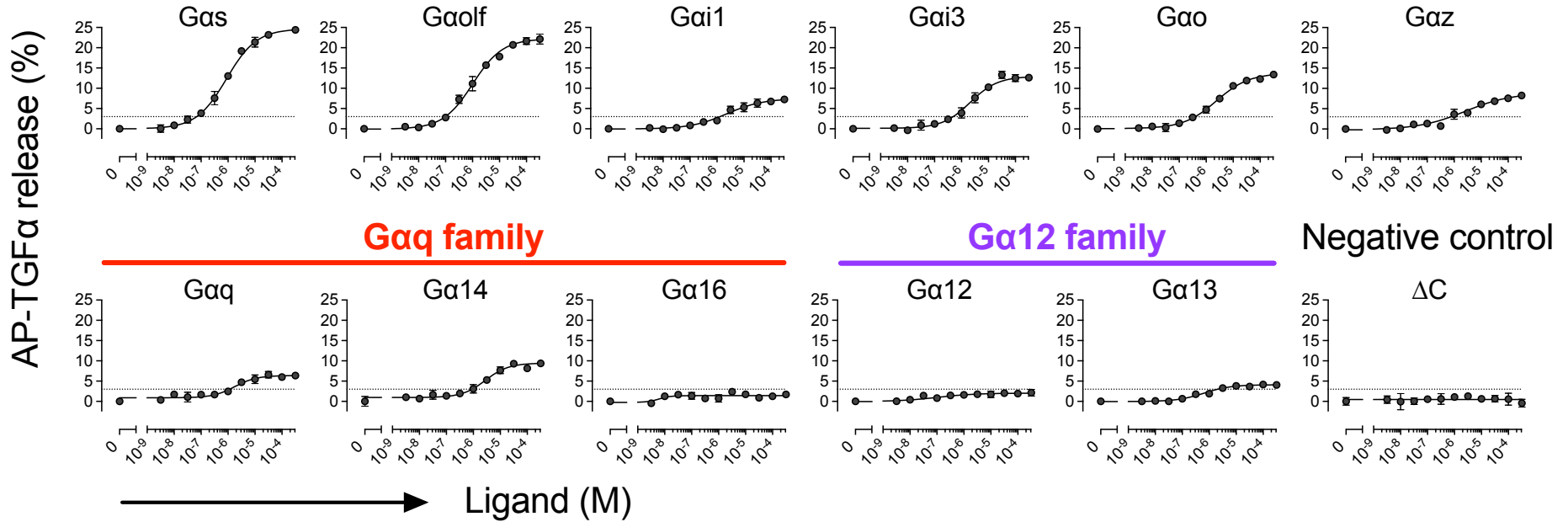
GPCR name: H2

Tested ligand: Histamine

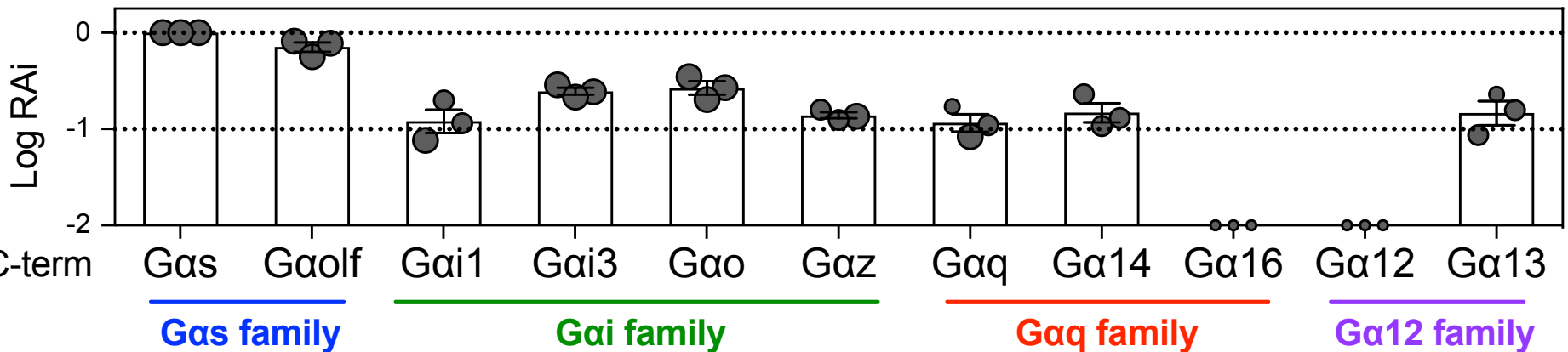
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HRH3*

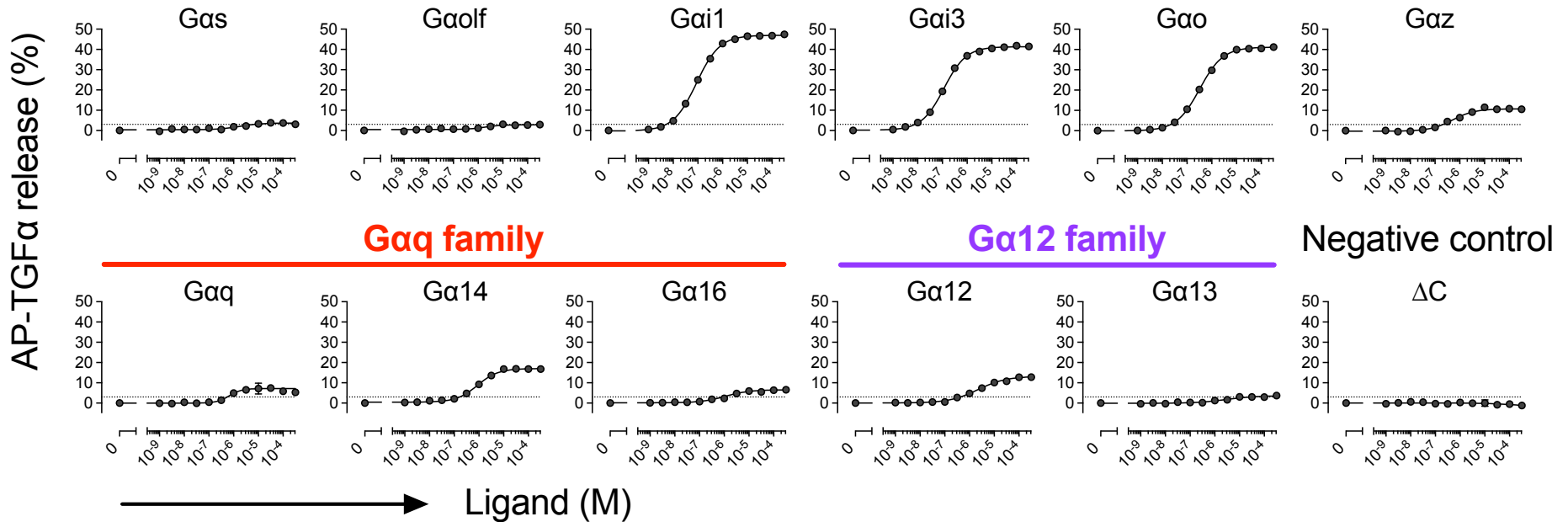
GPCR name: H3

Tested ligand: Histamine

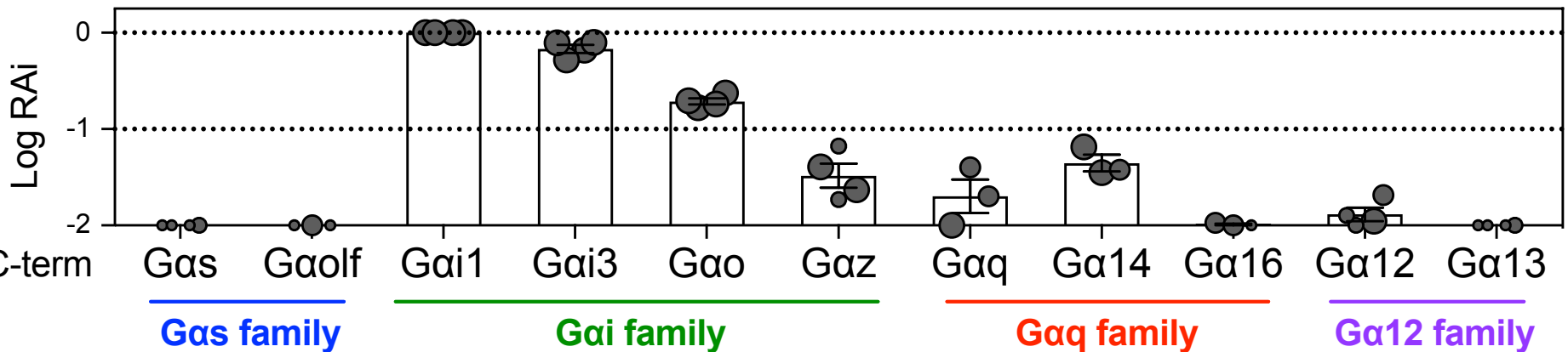
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HRH4*

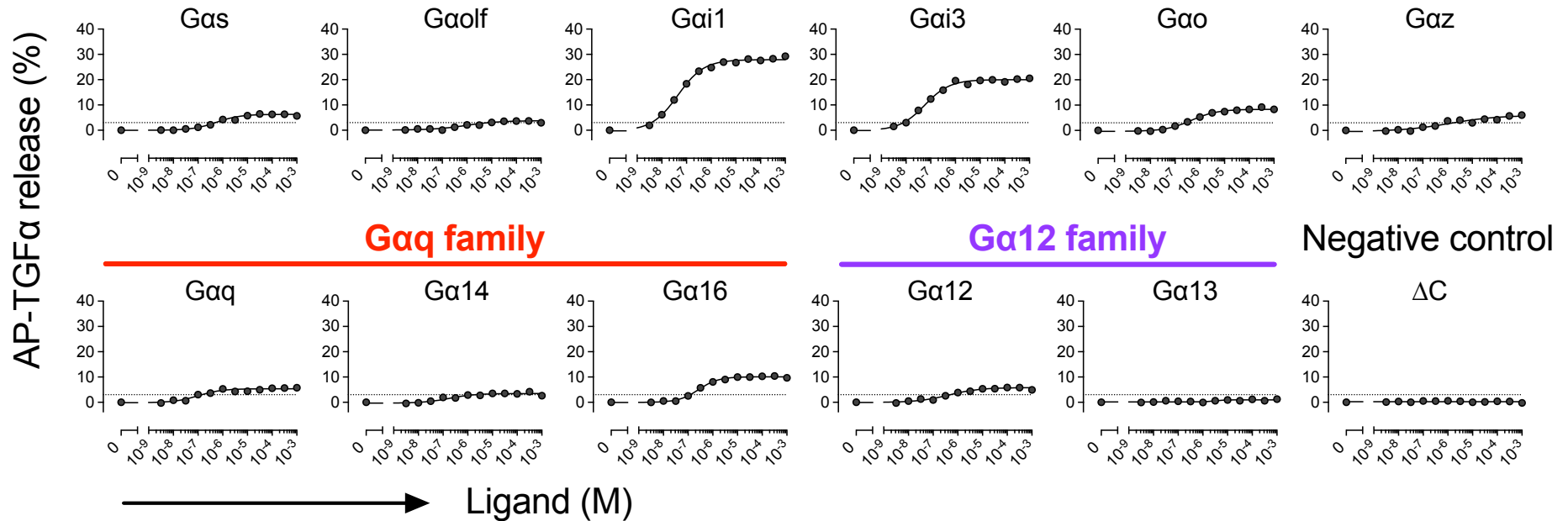
GPCR name: H4

Tested ligand: Histamine

C-terminal chimera co-expression

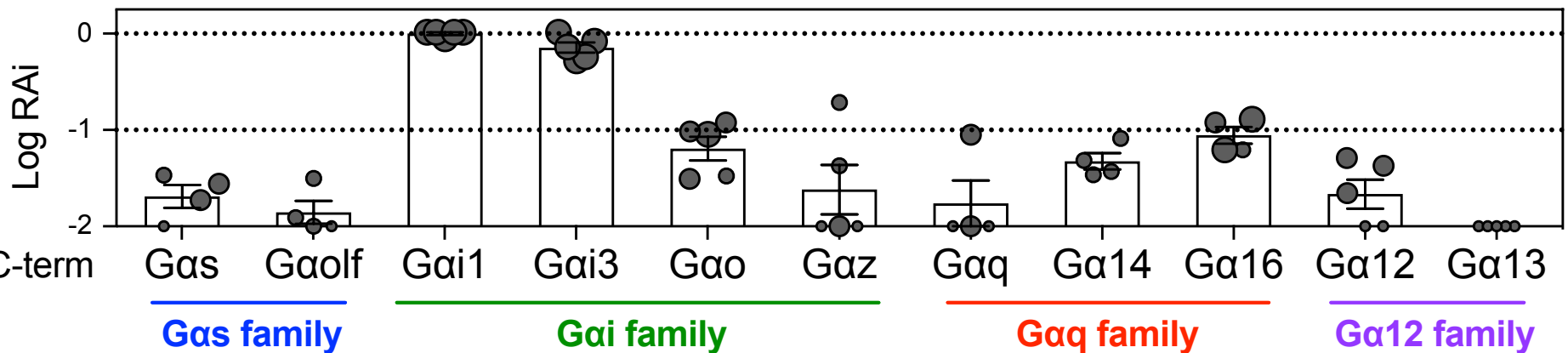
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR1A*

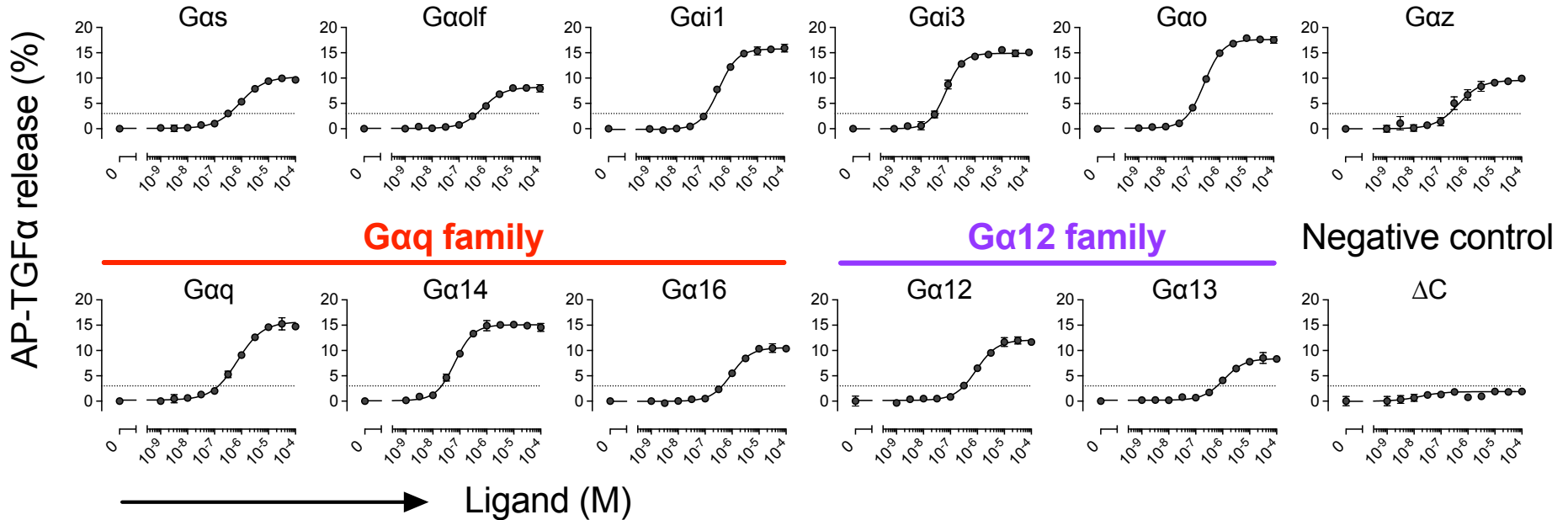
GPCR name: 5-HT1A

Tested ligand: Serotonin

C-terminal chimera co-expression

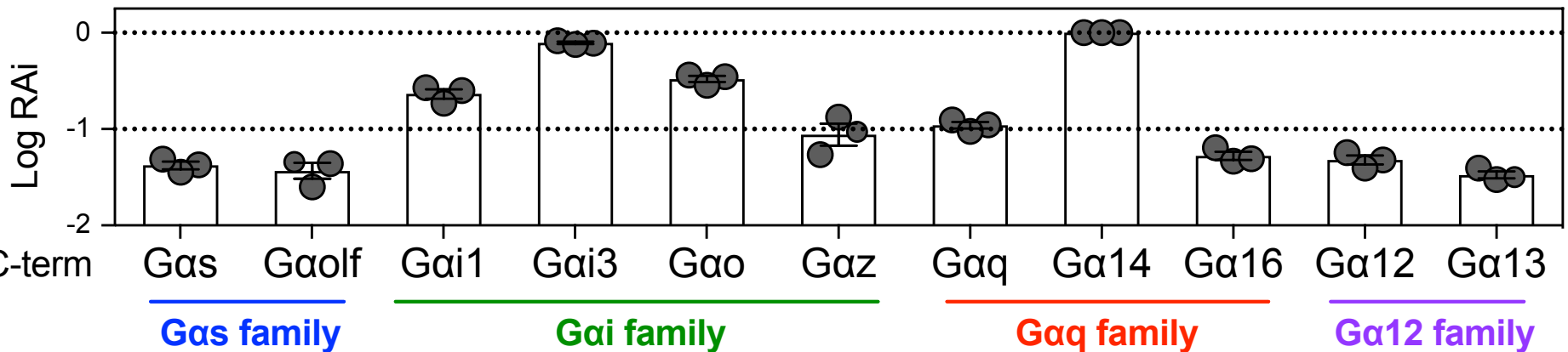
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR1B*

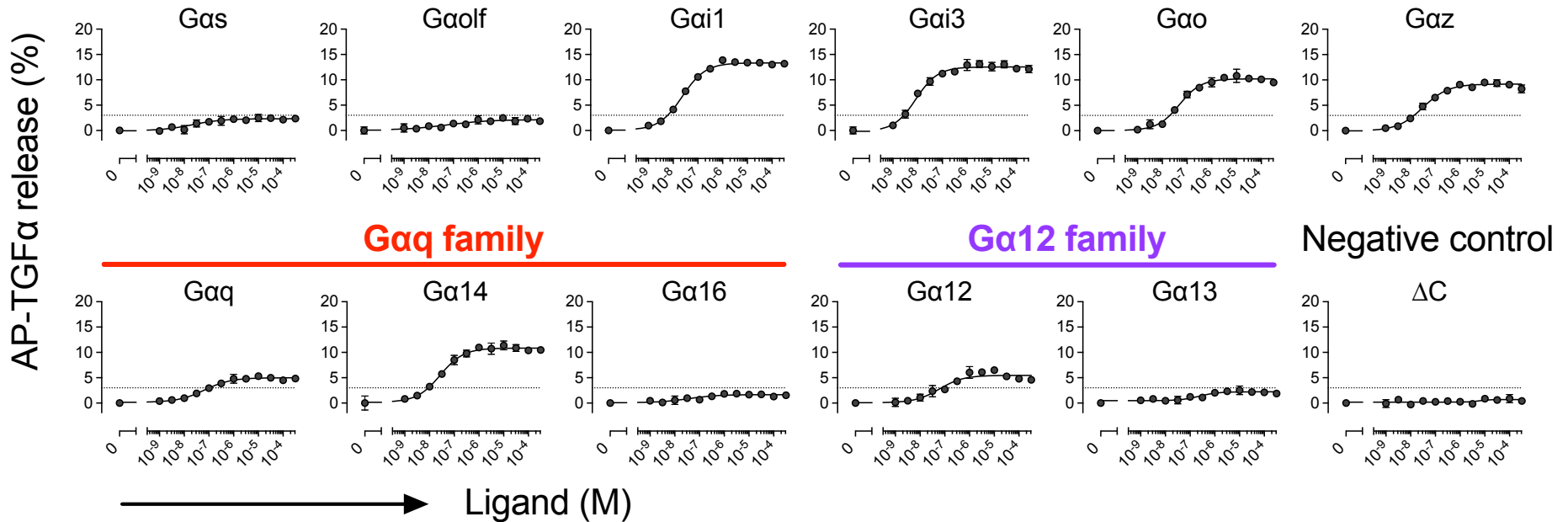
GPCR name: 5-HT1B

Tested ligand: Serotonin

C-terminal chimera co-expression

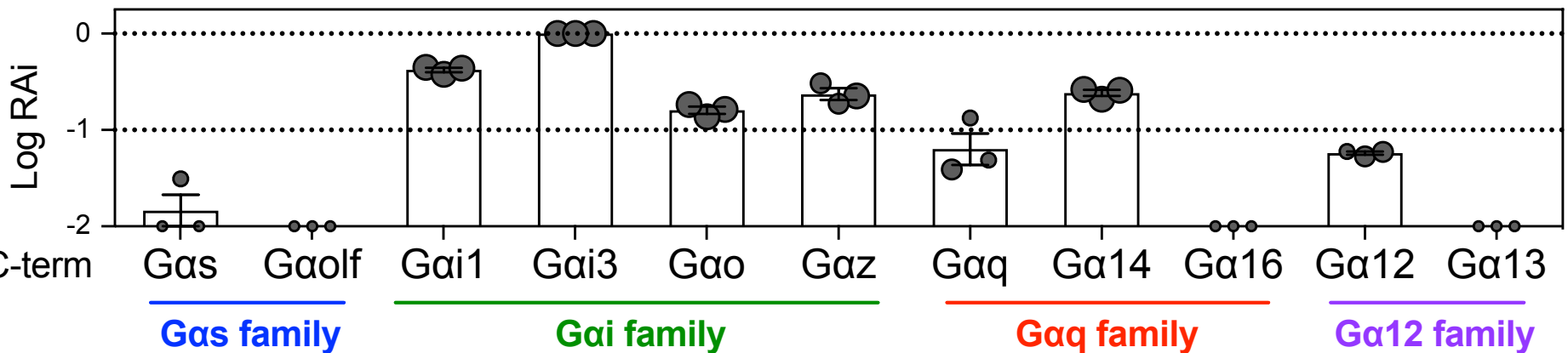
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR1D*

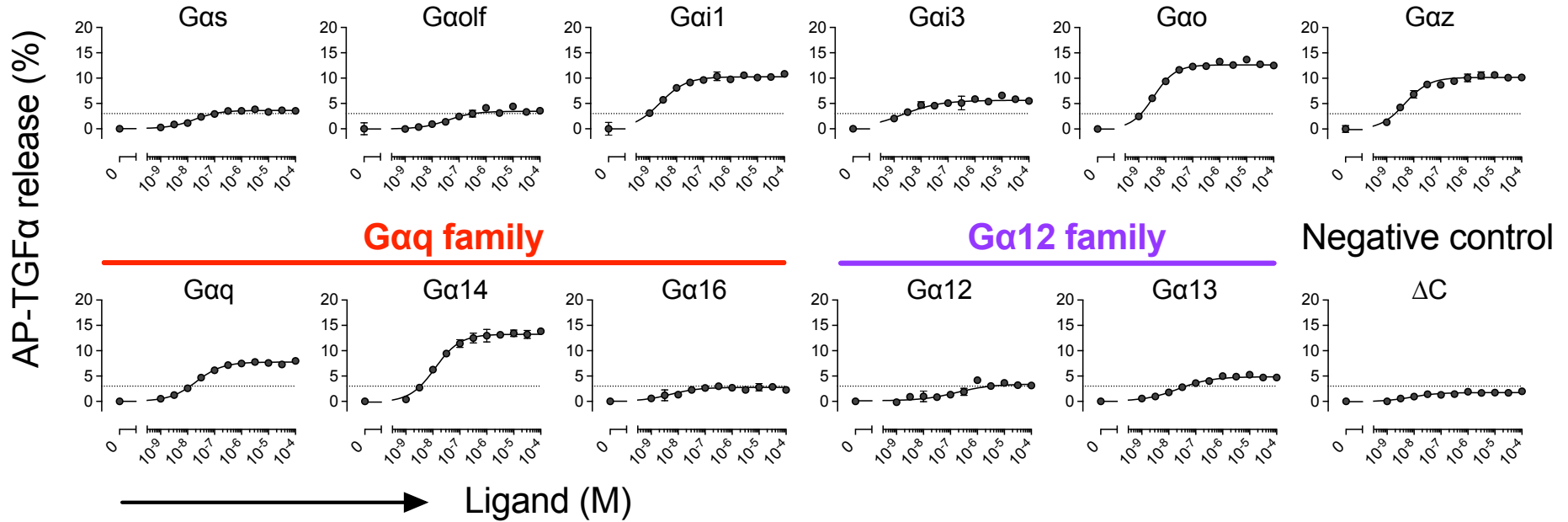
GPCR name: 5-HT1D

Tested ligand: Serotonin

C-terminal chimera co-expression

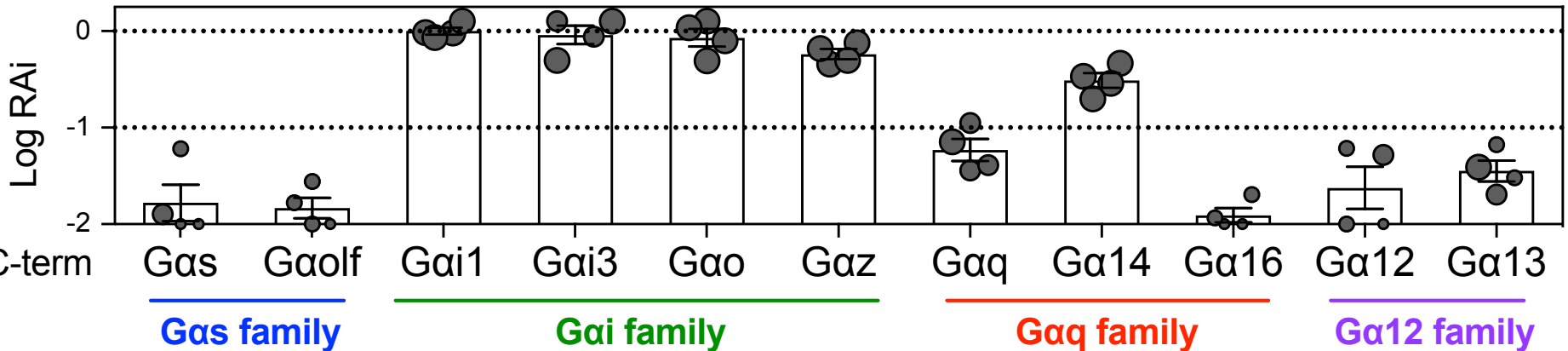
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR1E*

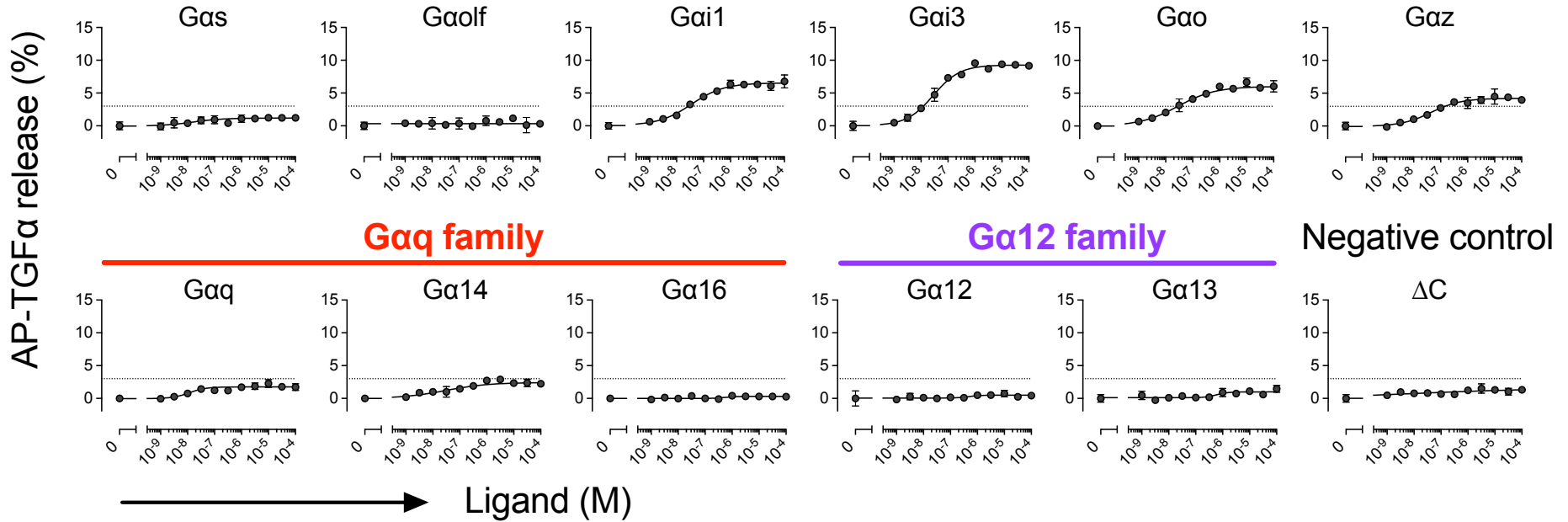
GPCR name: 5-HT1E

Tested ligand: Serotonin

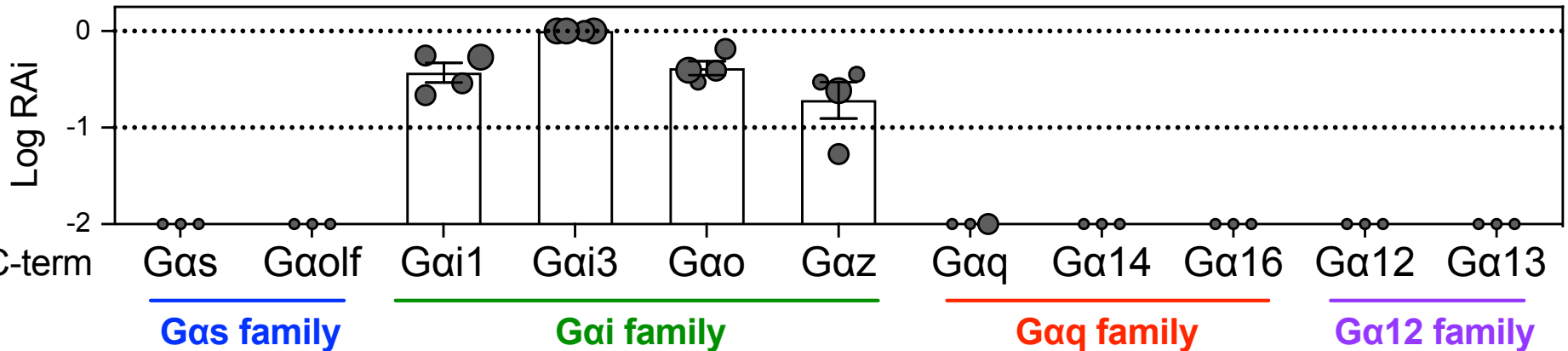
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR1F*

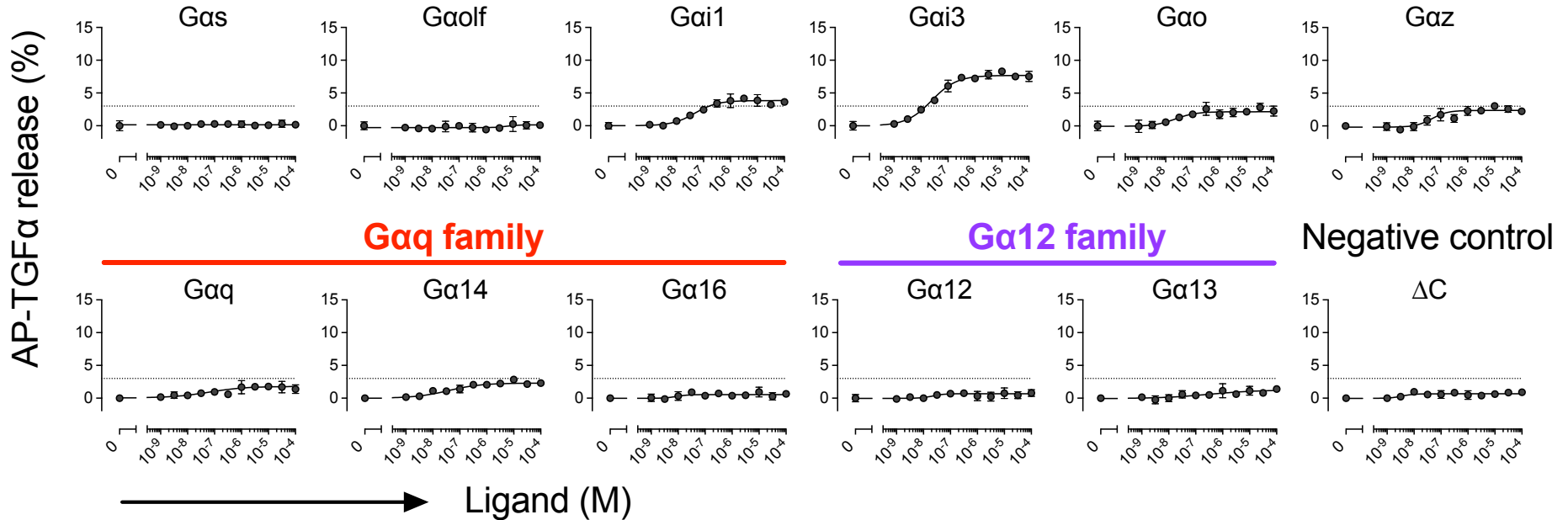
GPCR name: 5-HT1F

Tested ligand: Serotonin

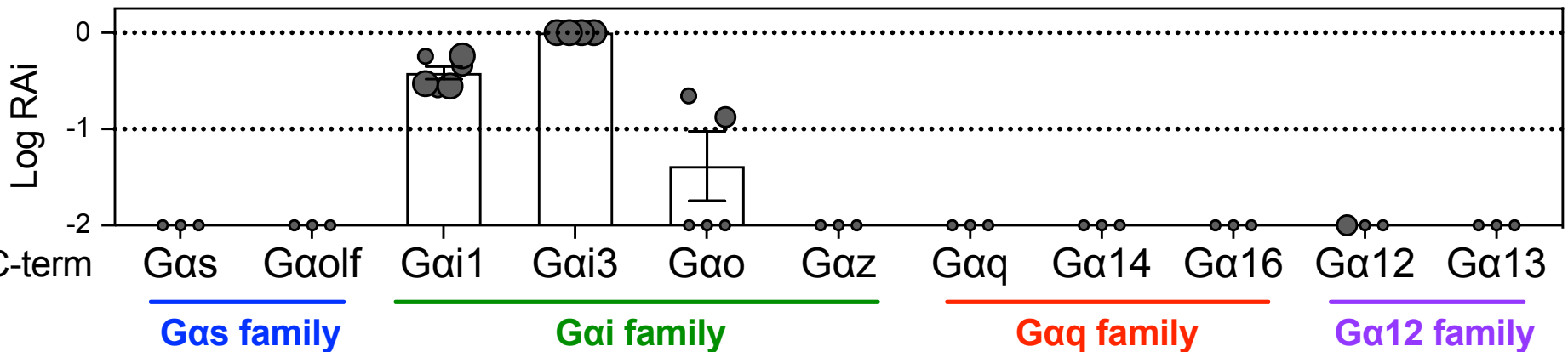
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR2A*

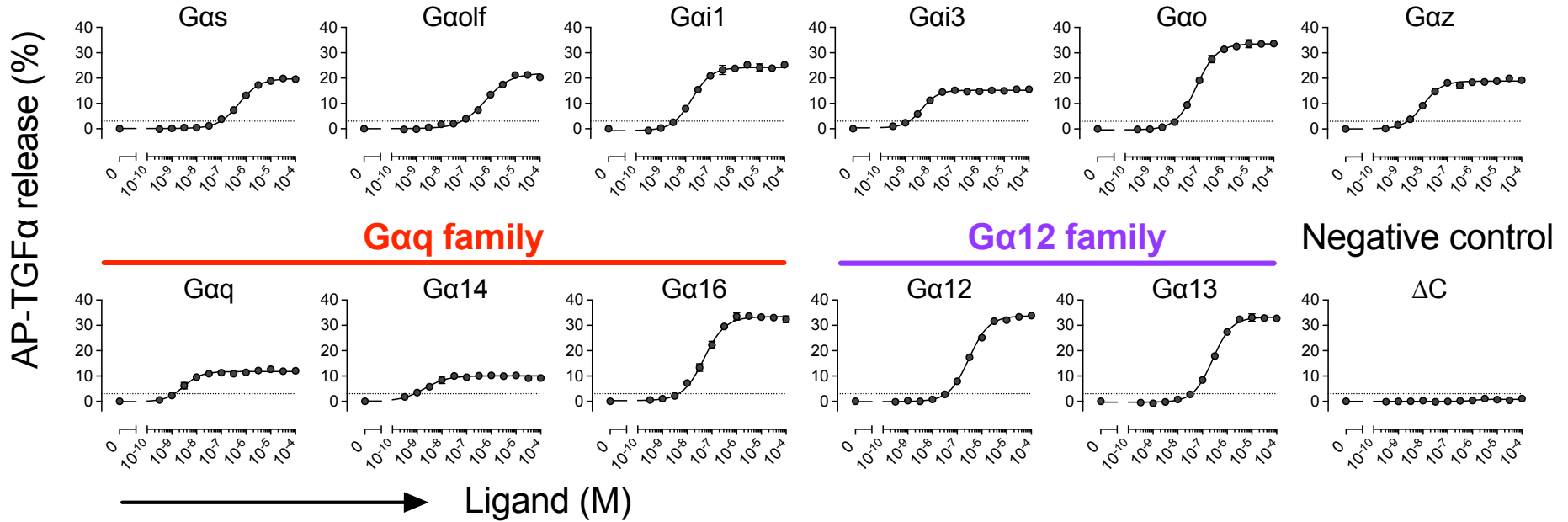
GPCR name: 5-HT2A

Tested ligand: Serotonin

C-terminal chimera co-expression

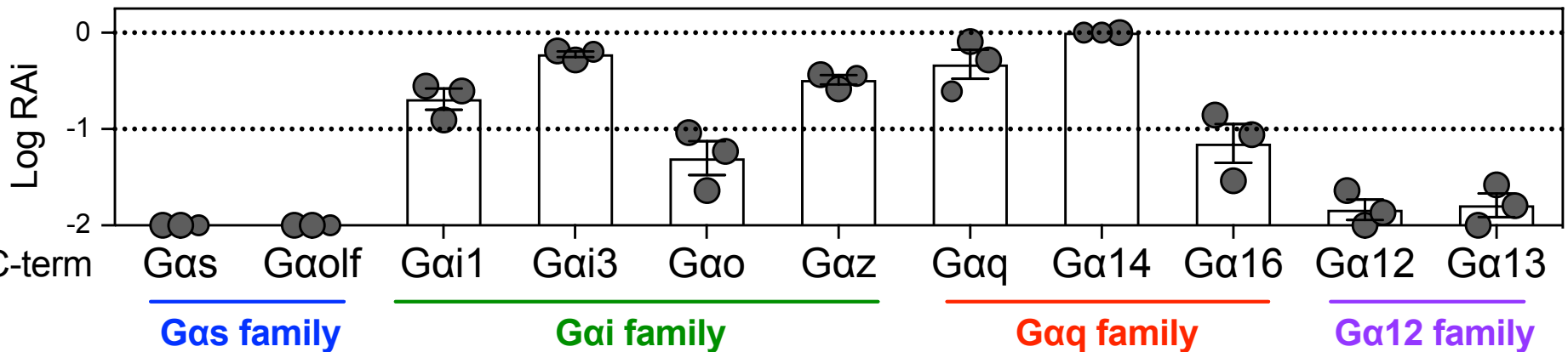
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



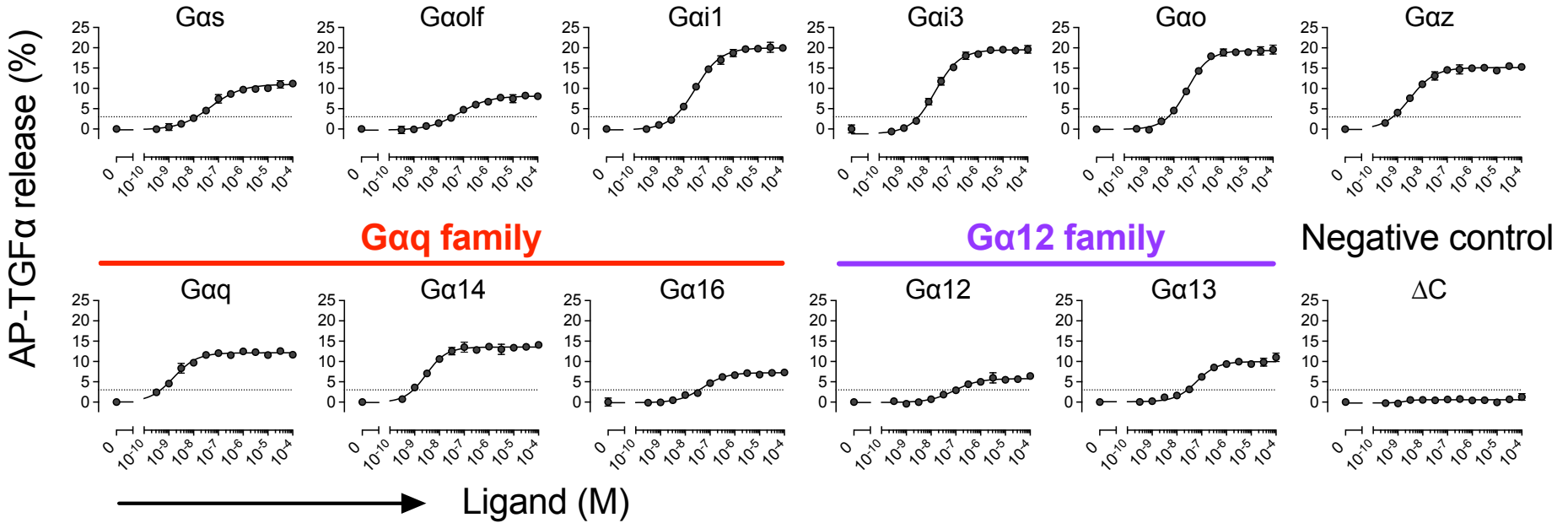
GPCR gene symbol: *HTR2B*

GPCR name: 5-HT2B

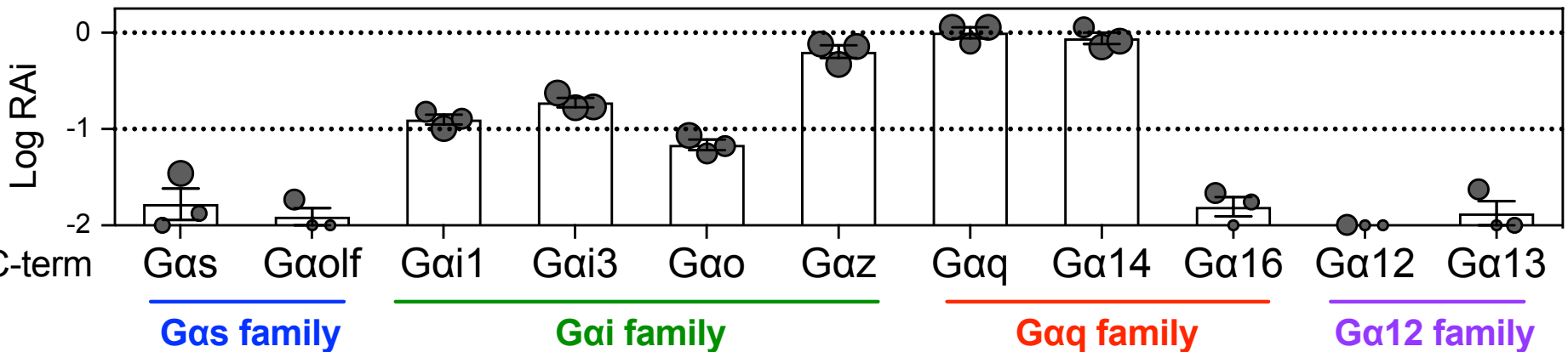
Tested ligand: Serotonin

C-terminal chimera co-expression

Gas family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR2C*

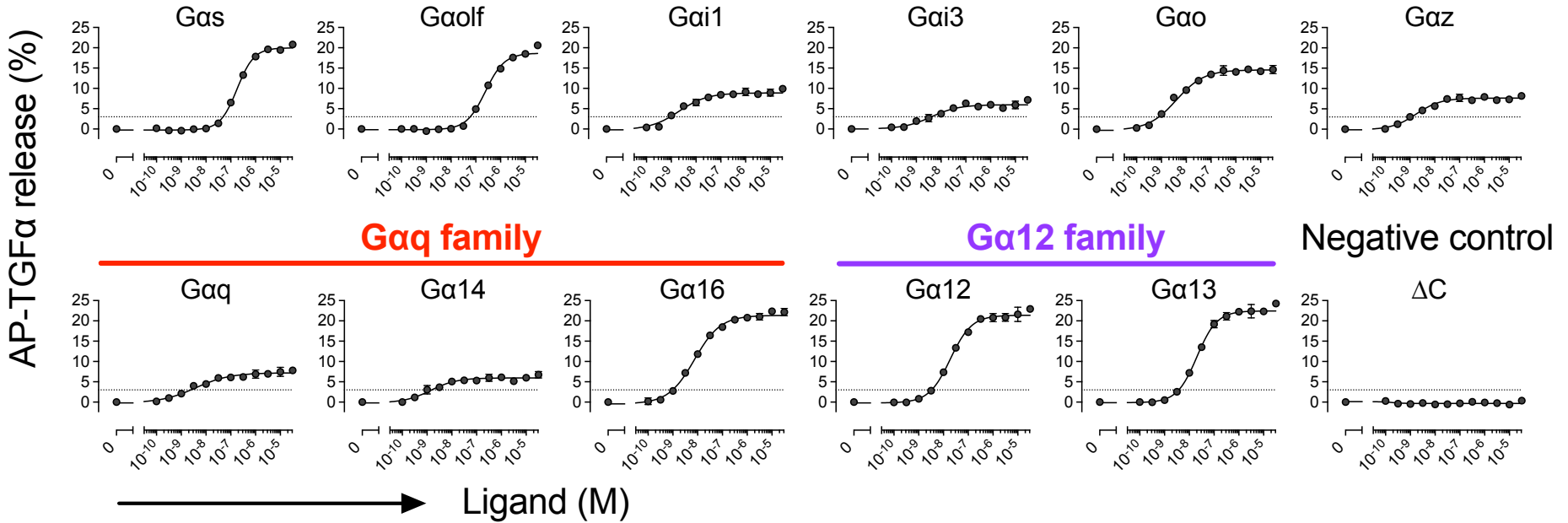
GPCR name: 5-HT_{2C}

Tested ligand: Serotonin

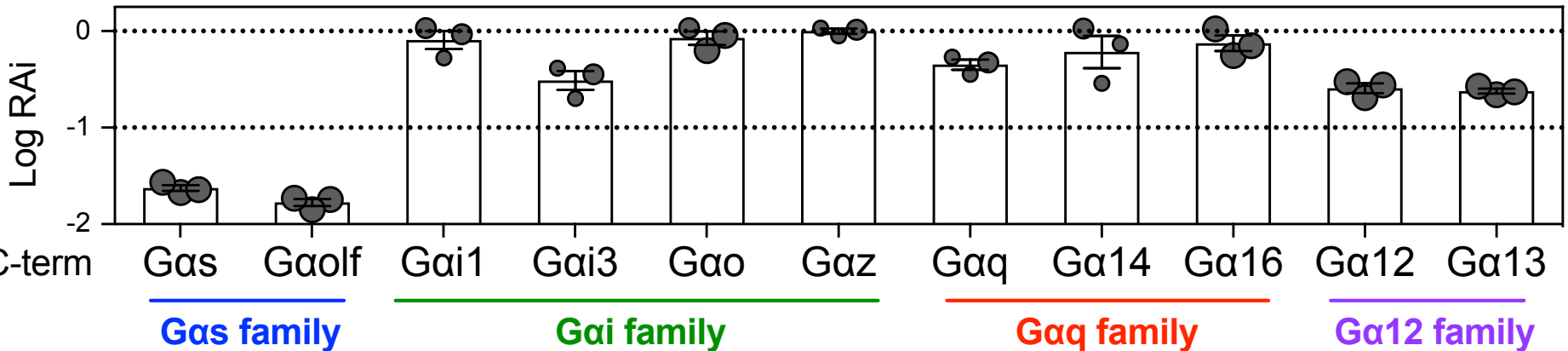
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR4*

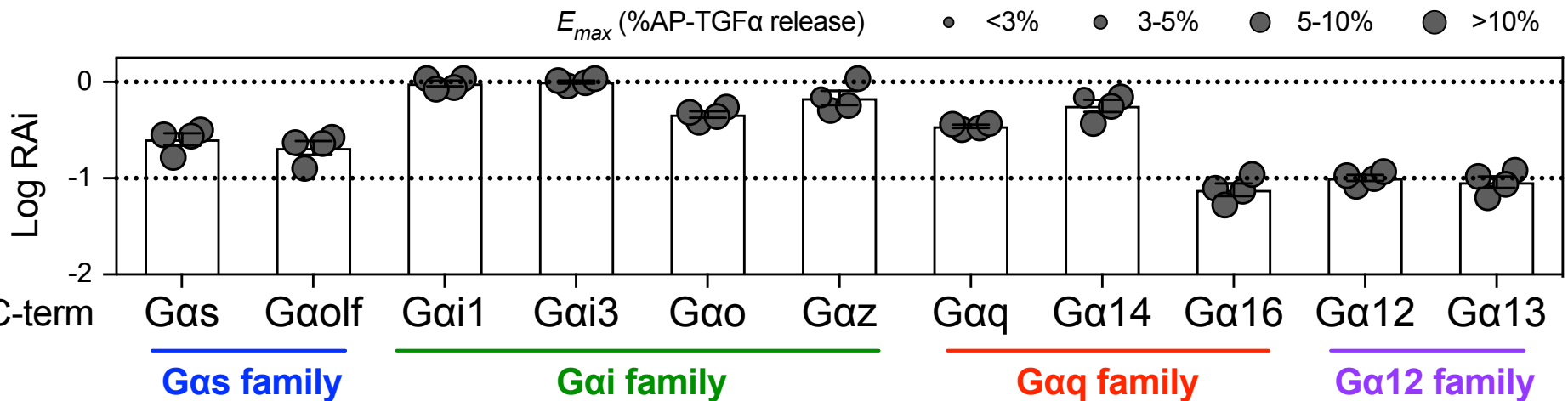
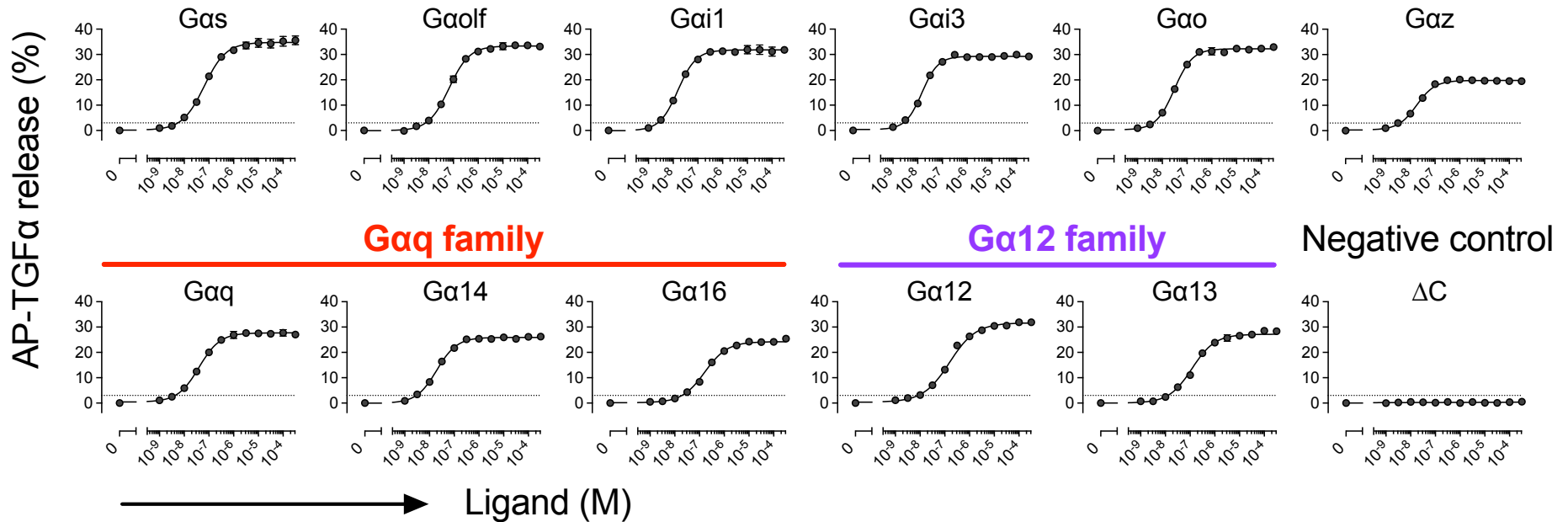
GPCR name: 5-HT₄

Tested ligand: Serotonin

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *HTR6*

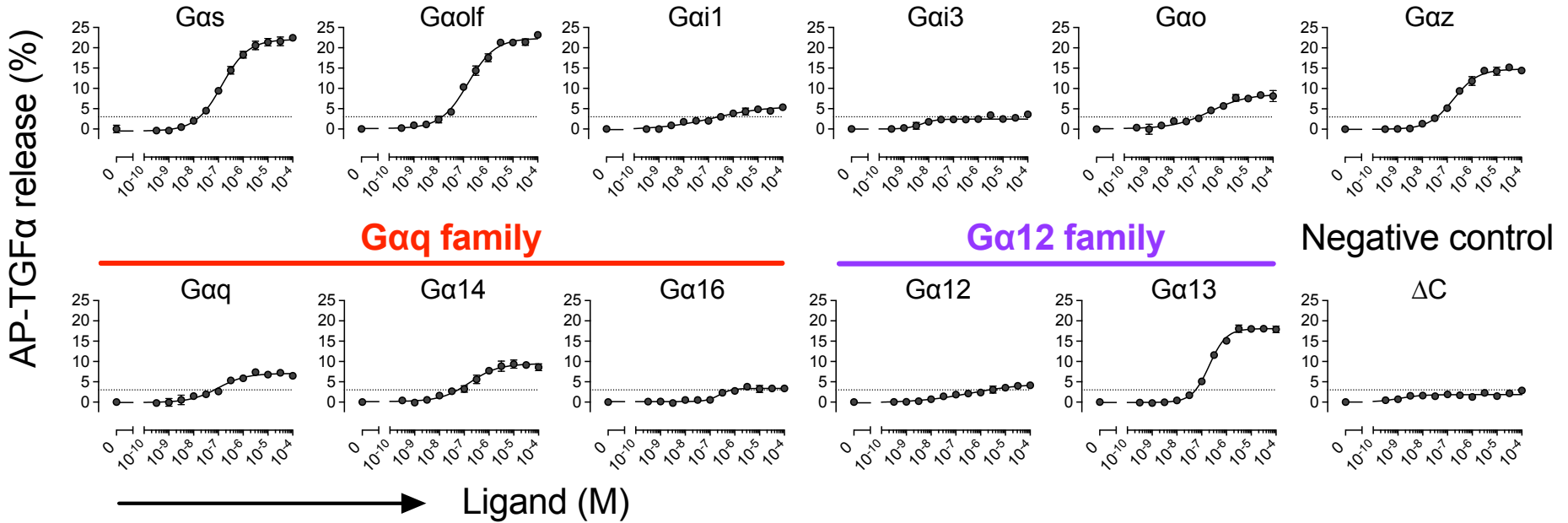
GPCR name: 5-HT₆

Tested ligand: Serotonin

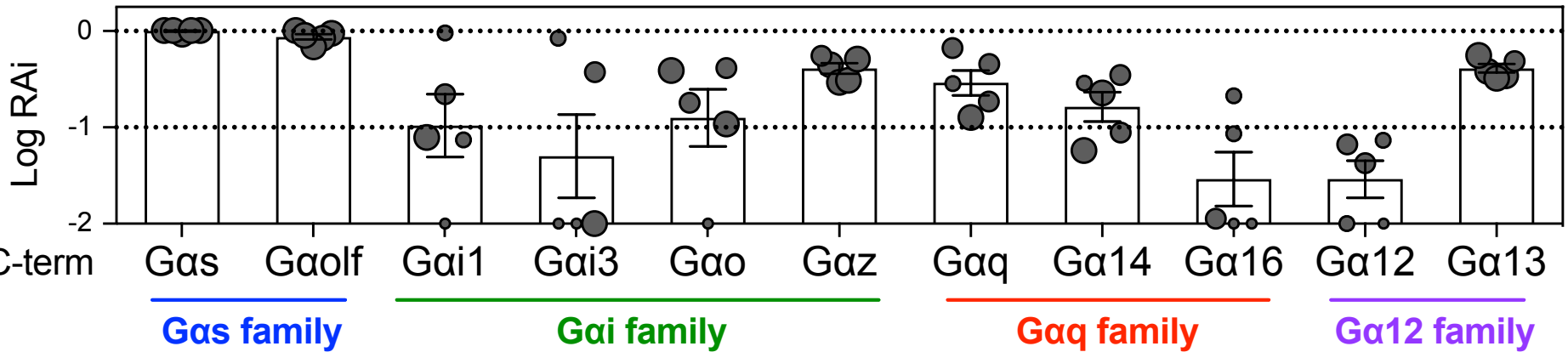
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *HTR7*

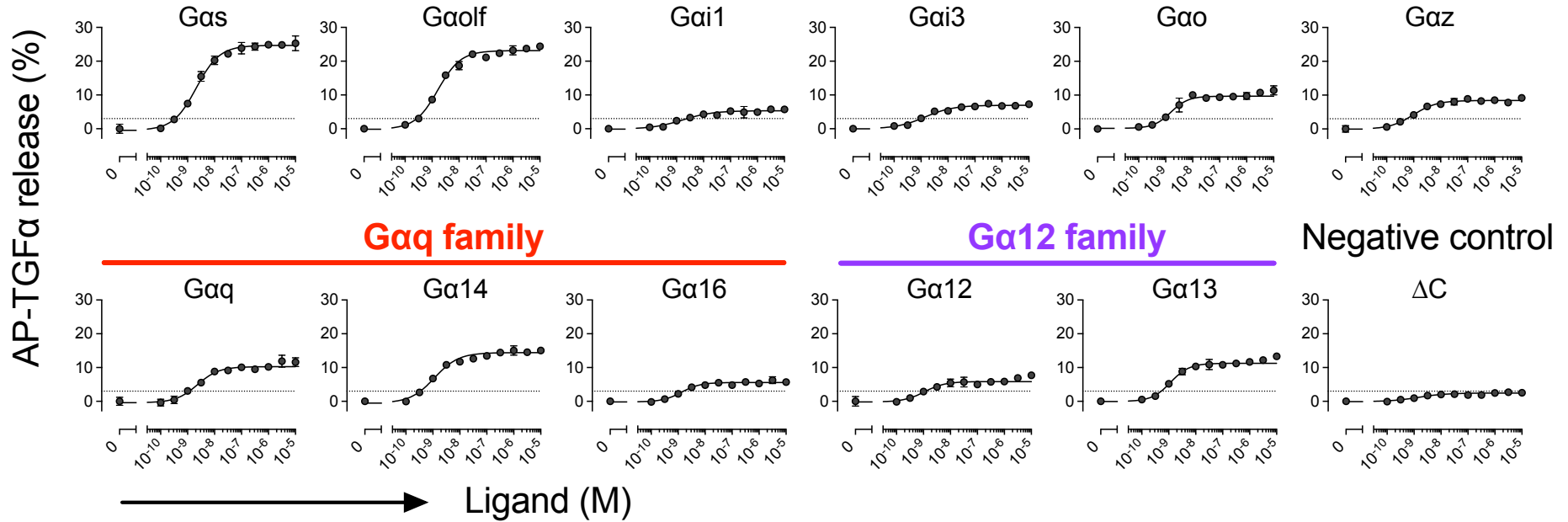
GPCR name: 5-HT7

Tested ligand: Serotonin

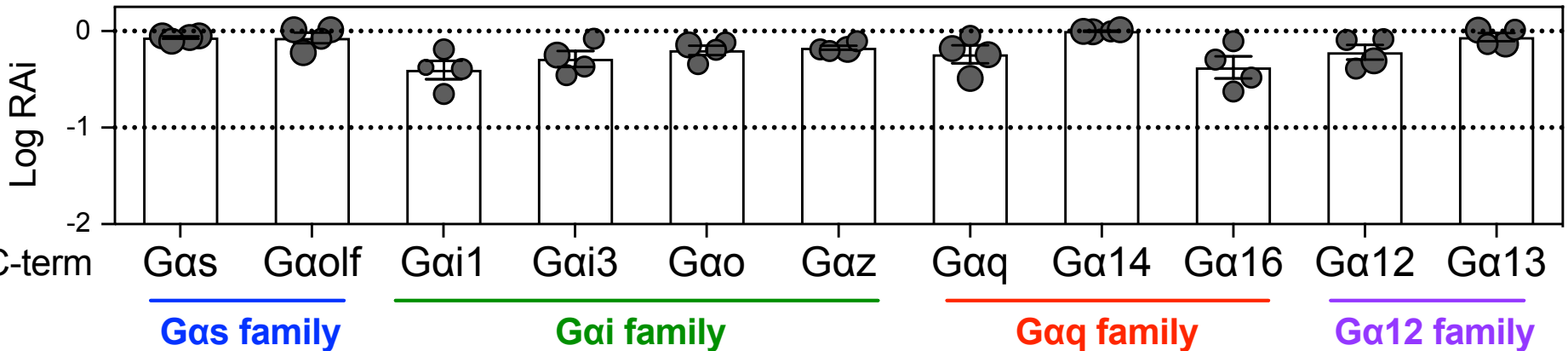
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *KISS1R*

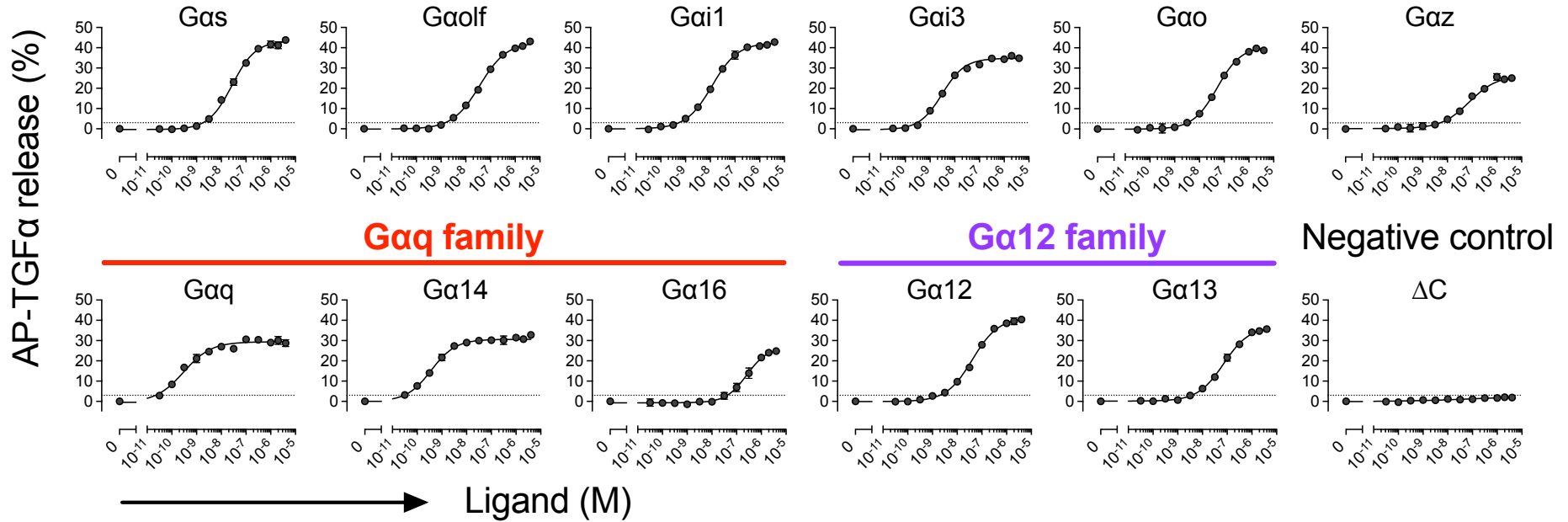
GPCR name: KISS1

Tested ligand: Kisspeptide-10

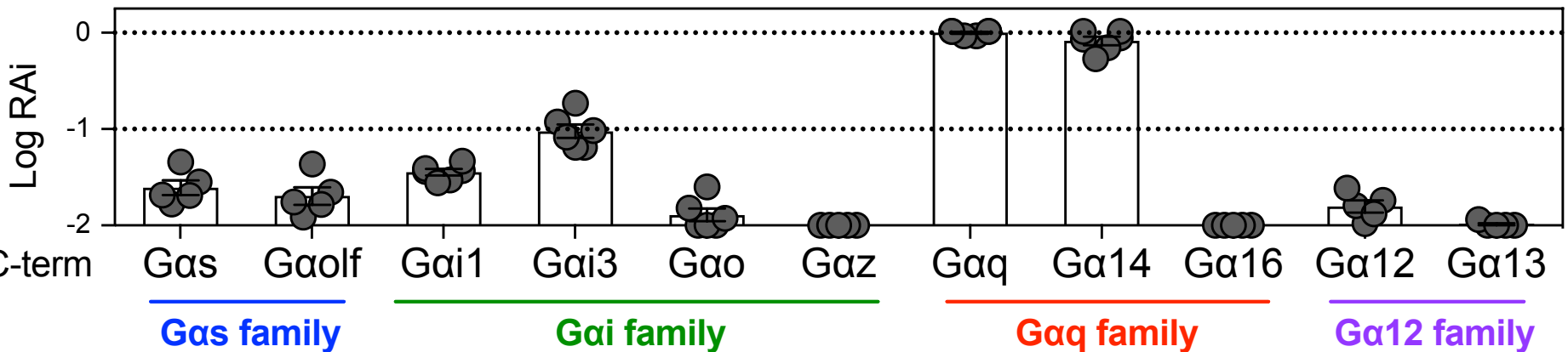
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *LPAR1*

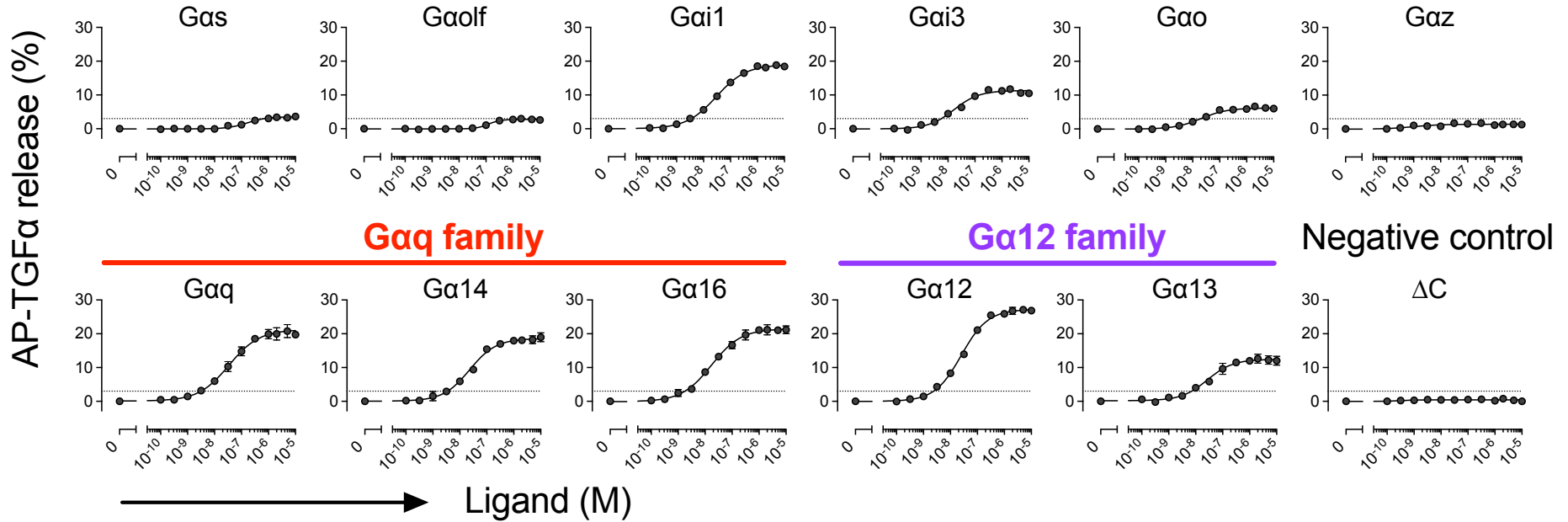
GPCR name: LPA1

Tested ligand: Lysophosphatidic acid

C-terminal chimera co-expression

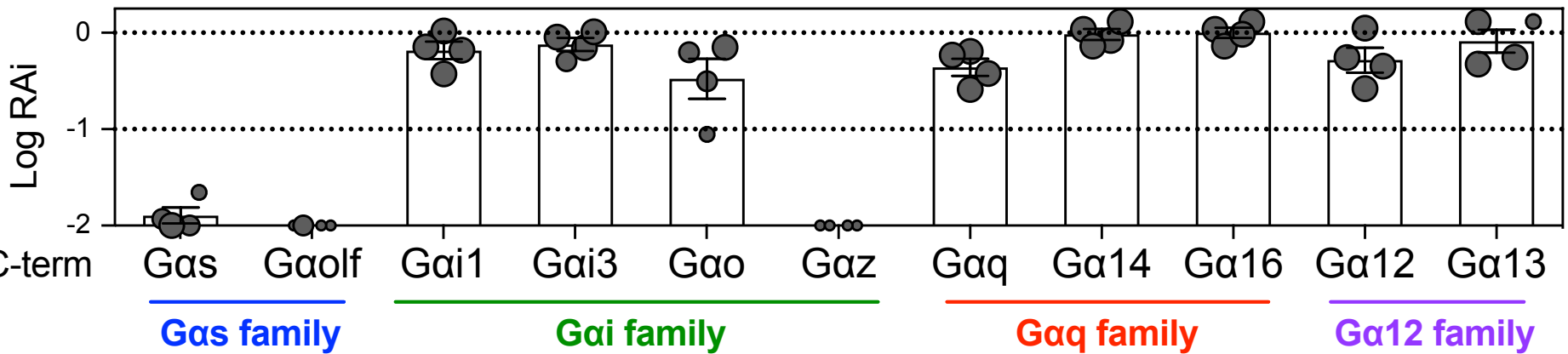
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *LPAR2*

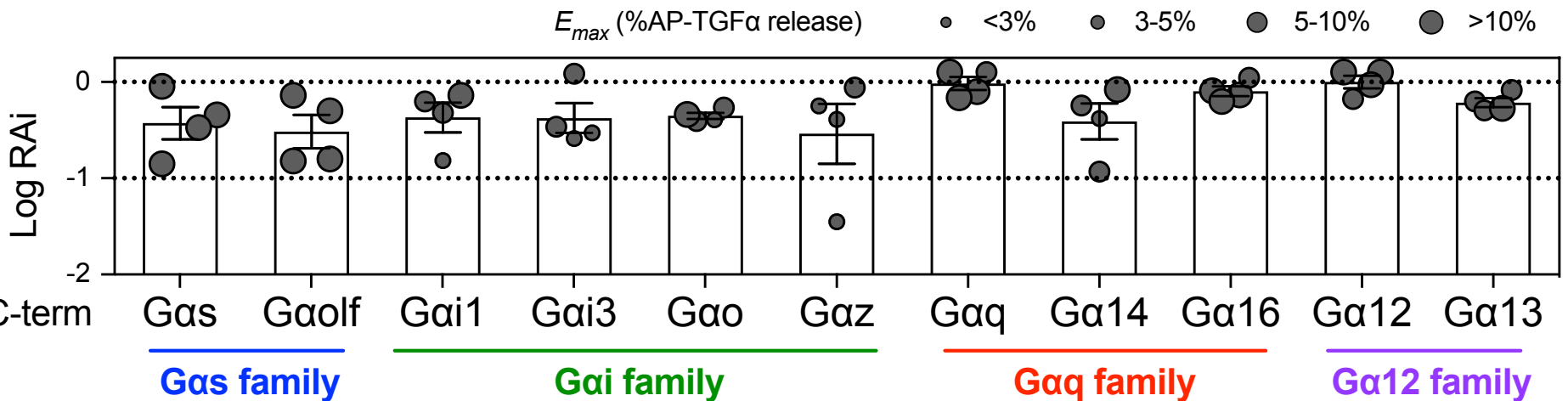
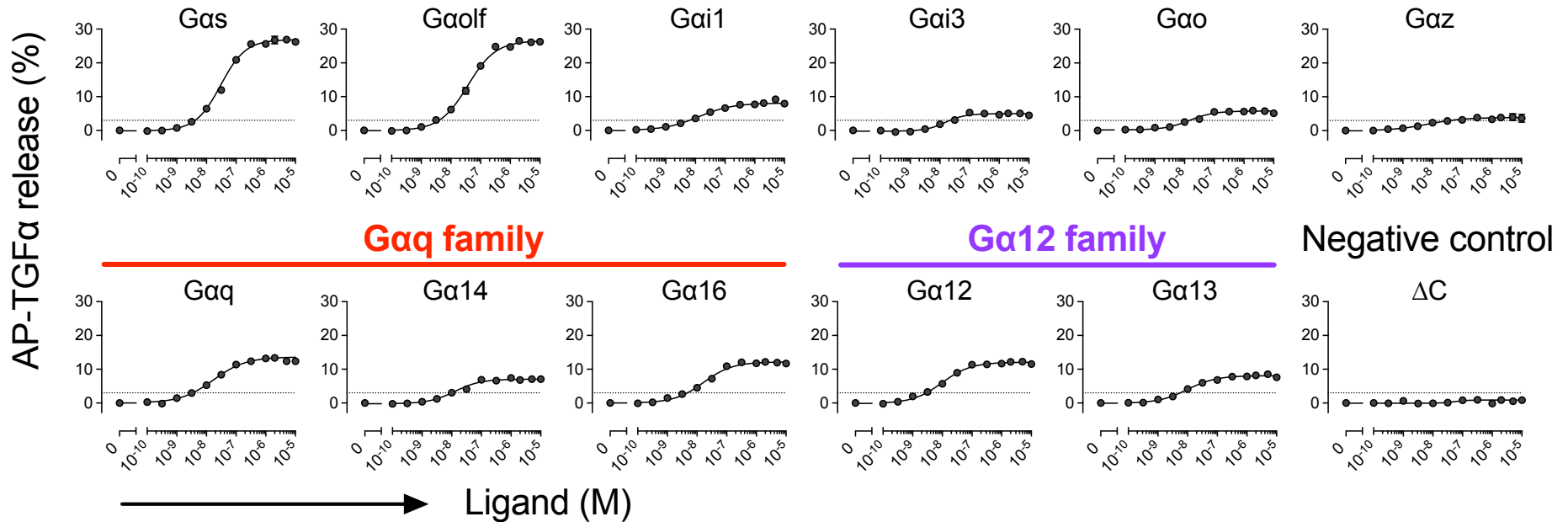
GPCR name: LPA2

Tested ligand: Lysophosphatidic acid

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *LPAR3*

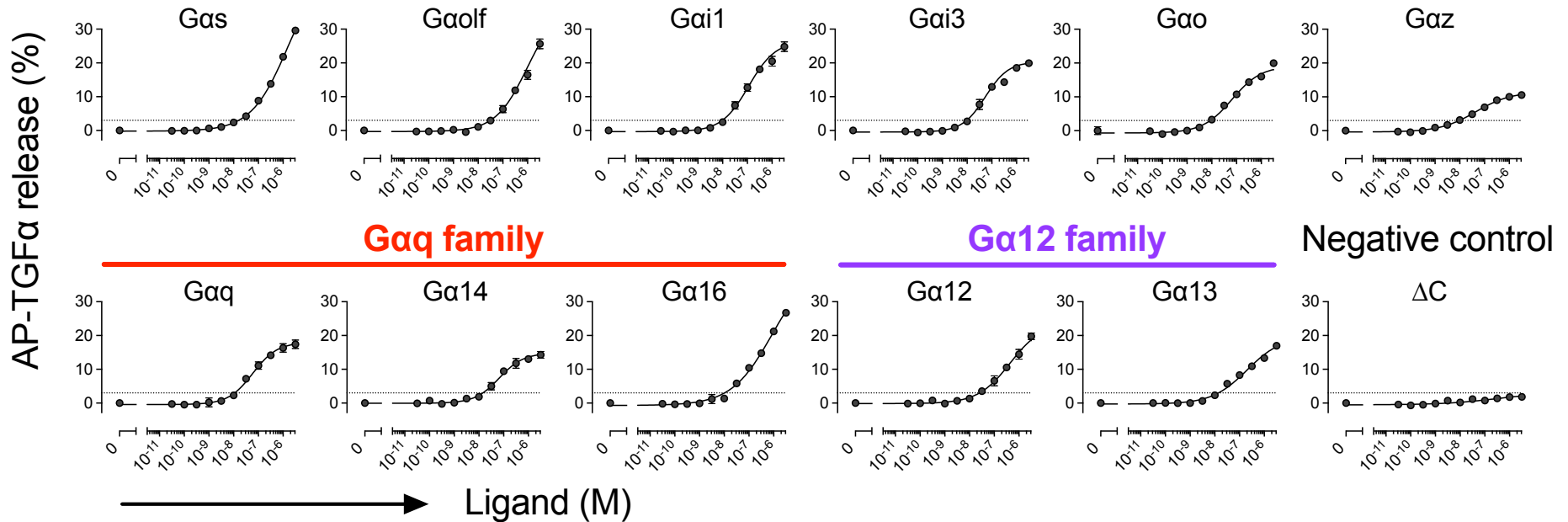
GPCR name: LPA3

Tested ligand: Lysophosphatidic acid

C-terminal chimera co-expression

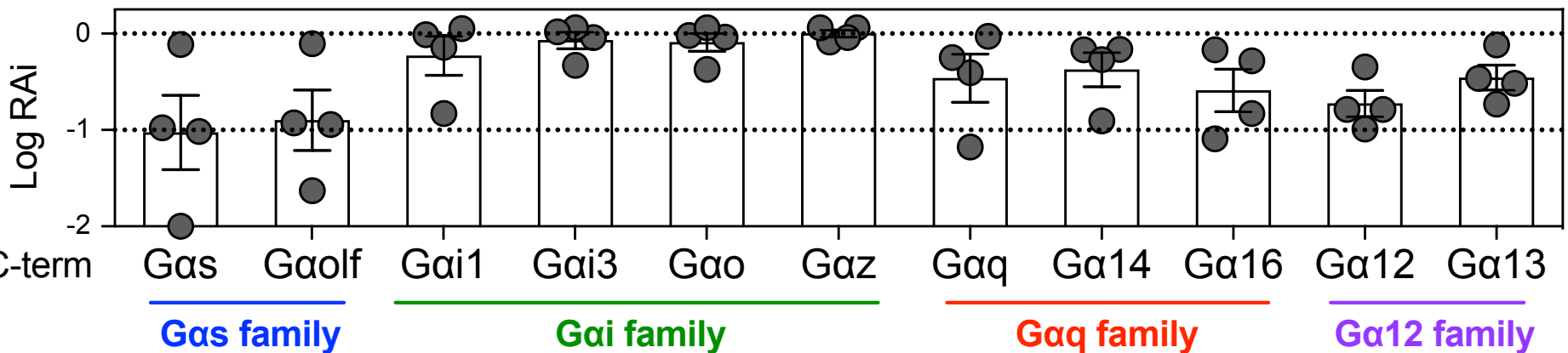
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *LPAR4*

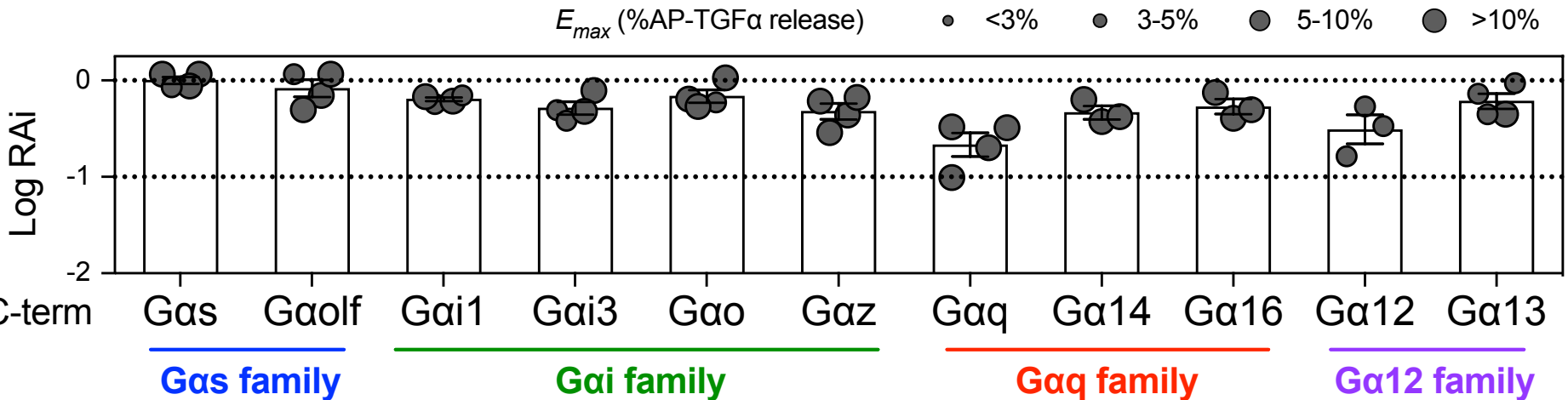
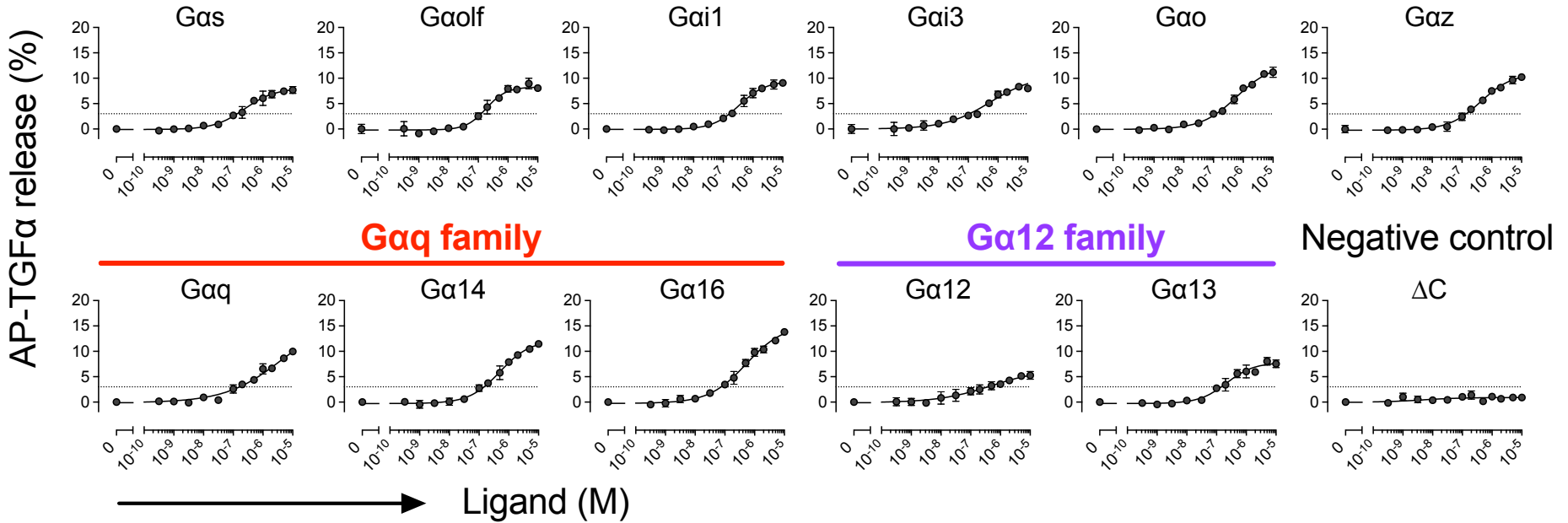
GPCR name: LPA4

Tested ligand: Lysophosphatidic acid (+10 μ M Ki16425)

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *LPAR5*

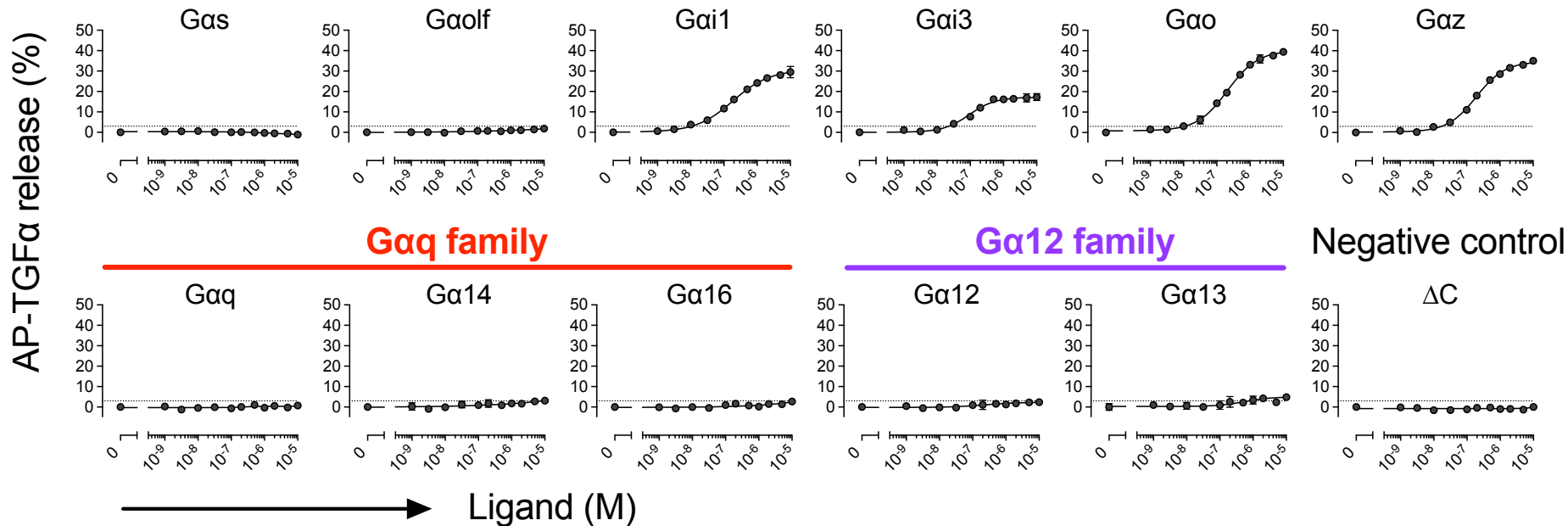
GPCR name: LPA5

Tested ligand: Lysophosphatidic acid (+10 μ M Ki16425)

C-terminal chimera co-expression

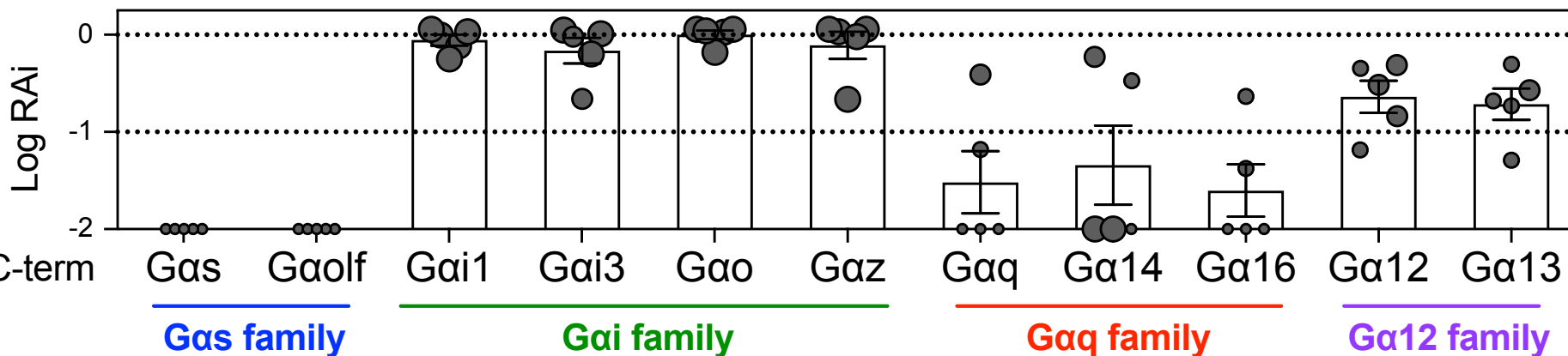
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *LPAR6*

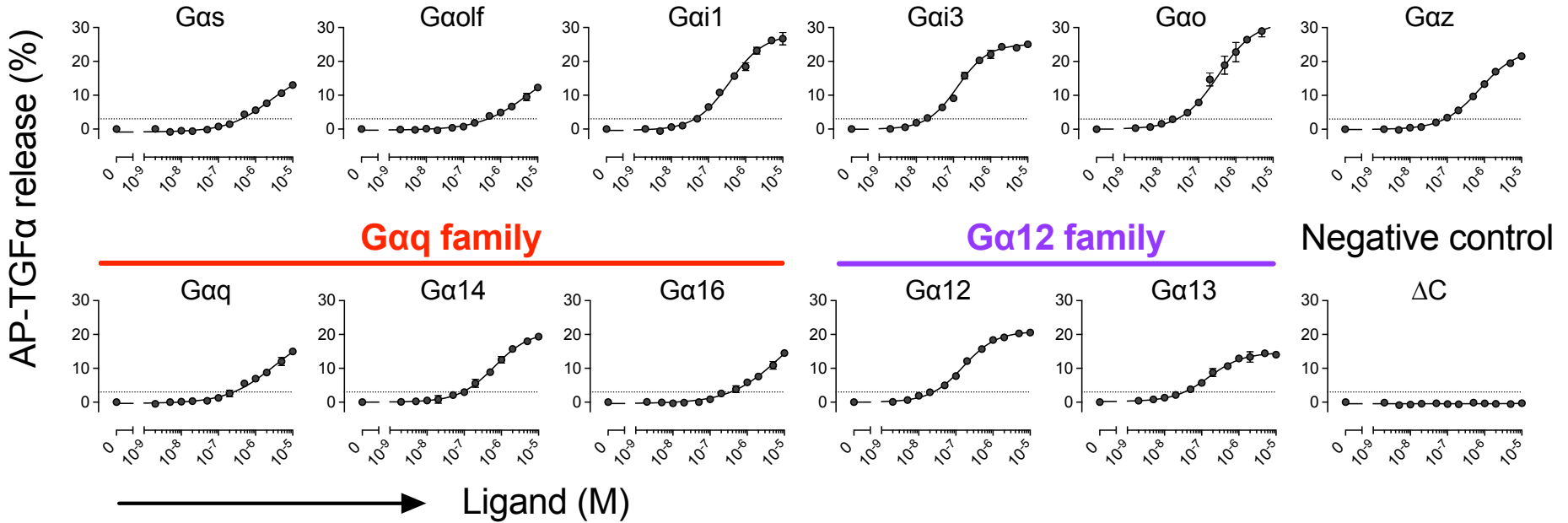
GPCR name: LPA6

Tested ligand: Lysophosphatidic acid (+10 μ M Ki16425)

C-terminal chimera co-expression

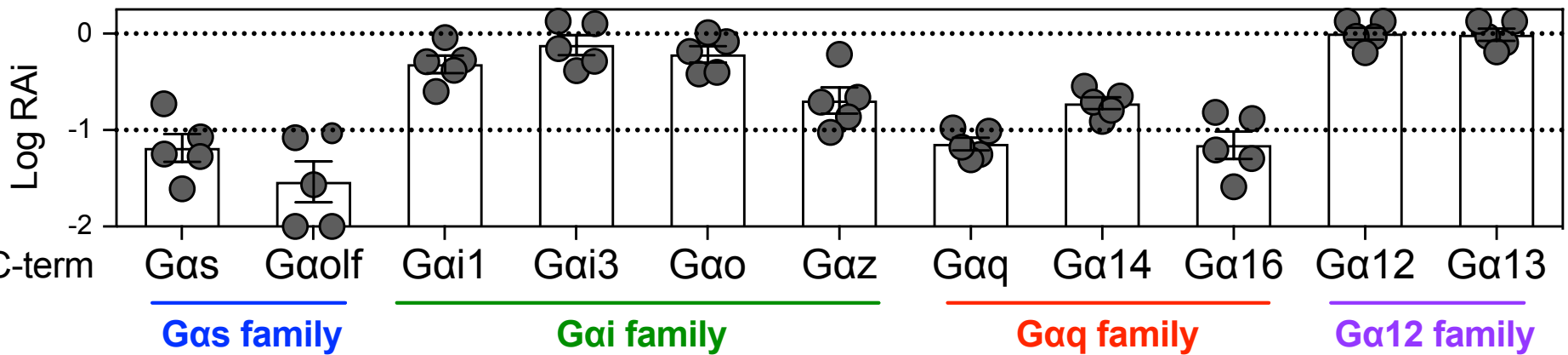
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *LTB4R*

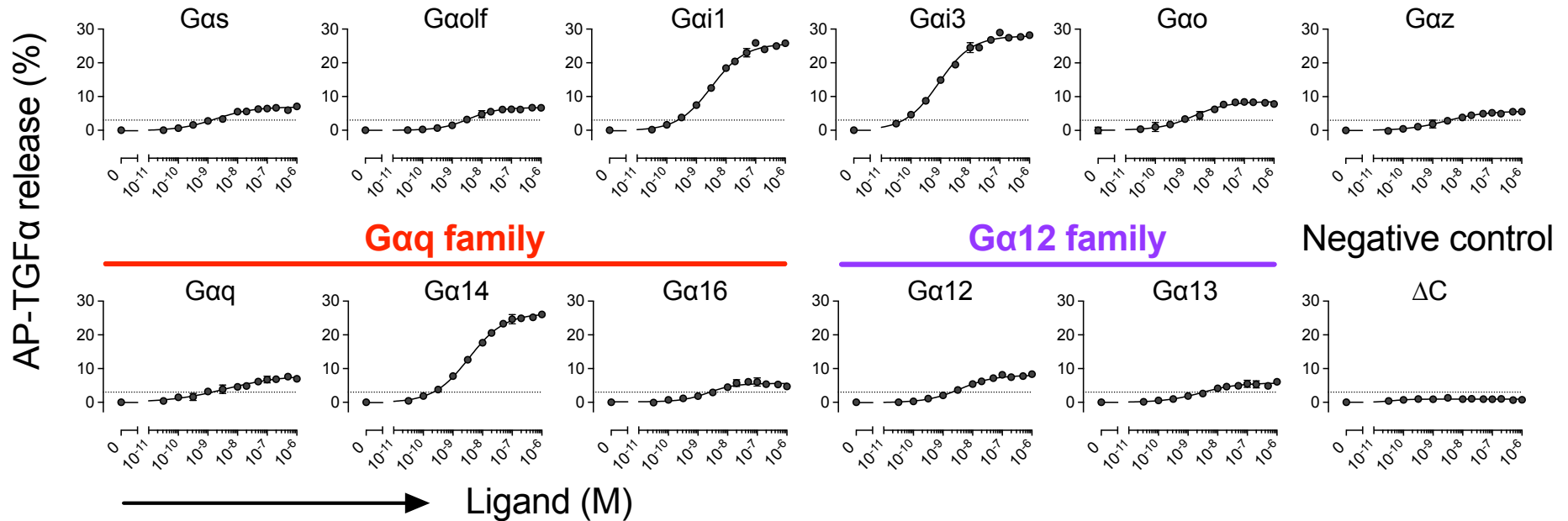
GPCR name: BLT1

Tested ligand: Leukotriene B4

C-terminal chimera co-expression

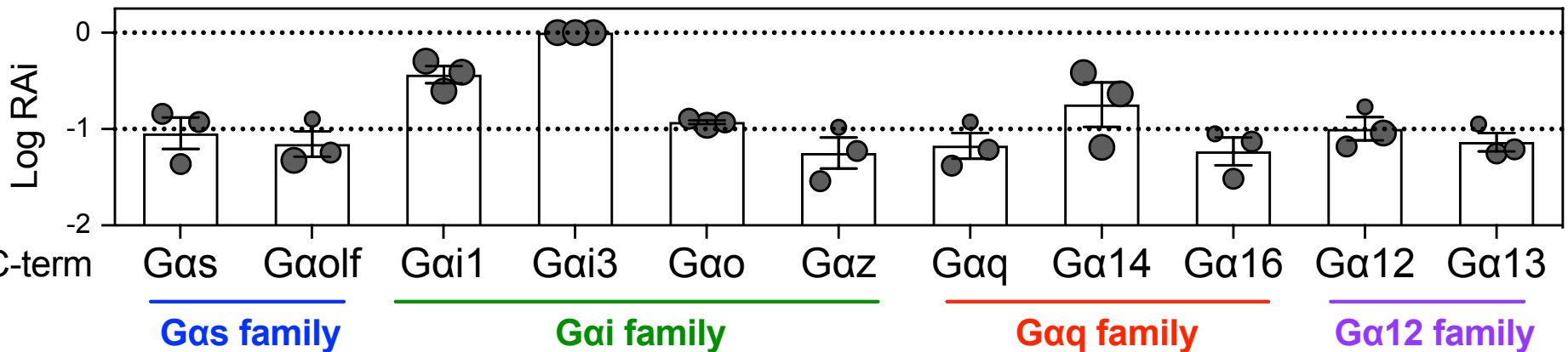
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *LTB4R2*

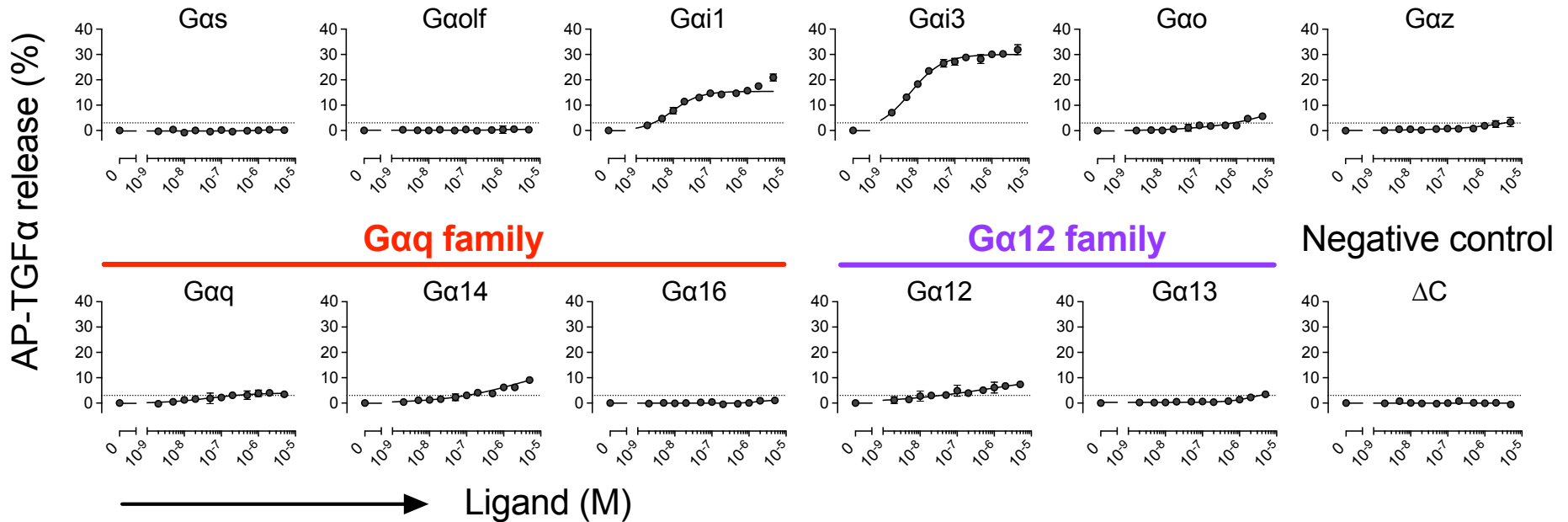
GPCR name: BLT2

Tested ligand: CAY10583

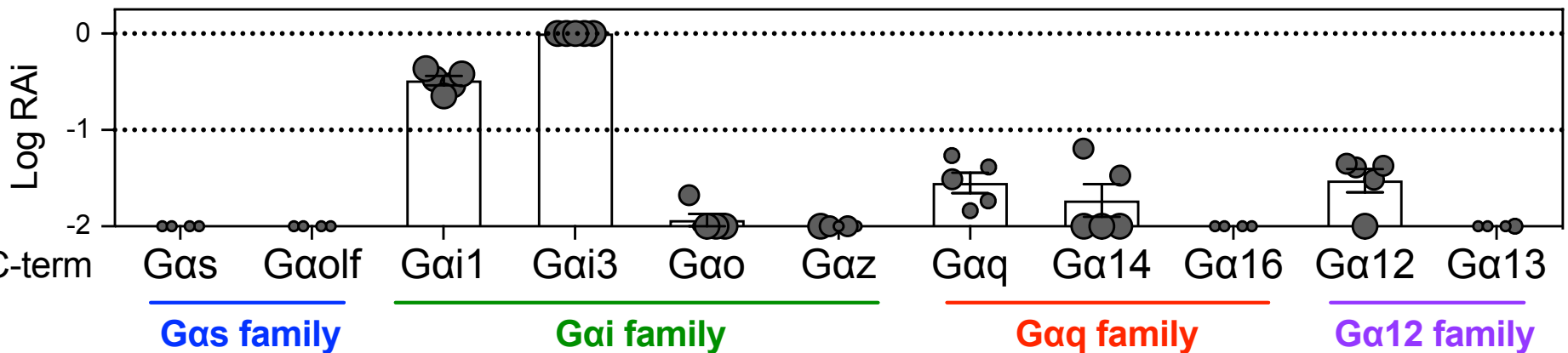
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MC1R*

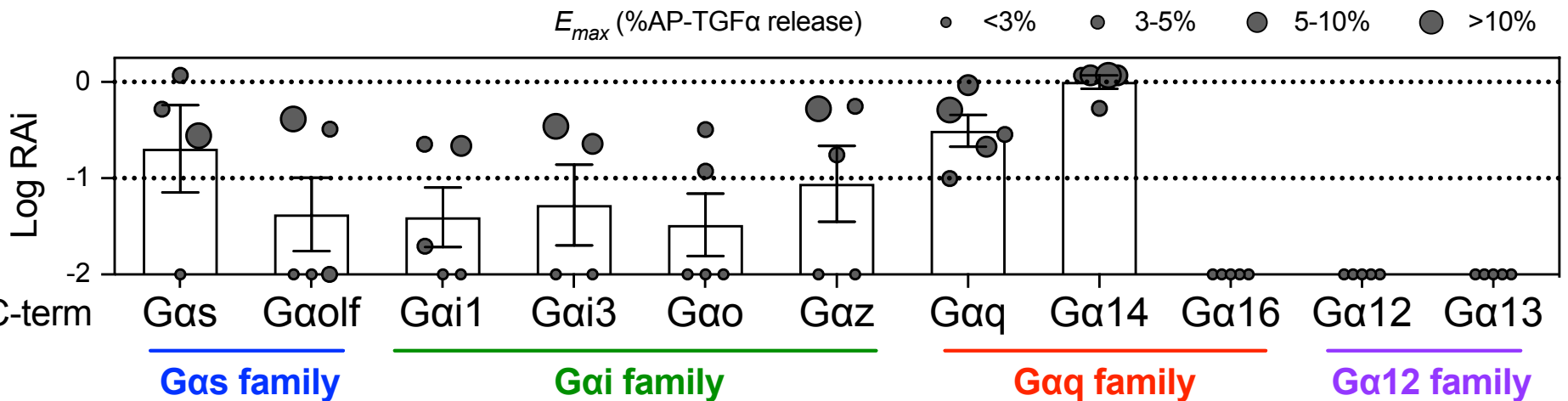
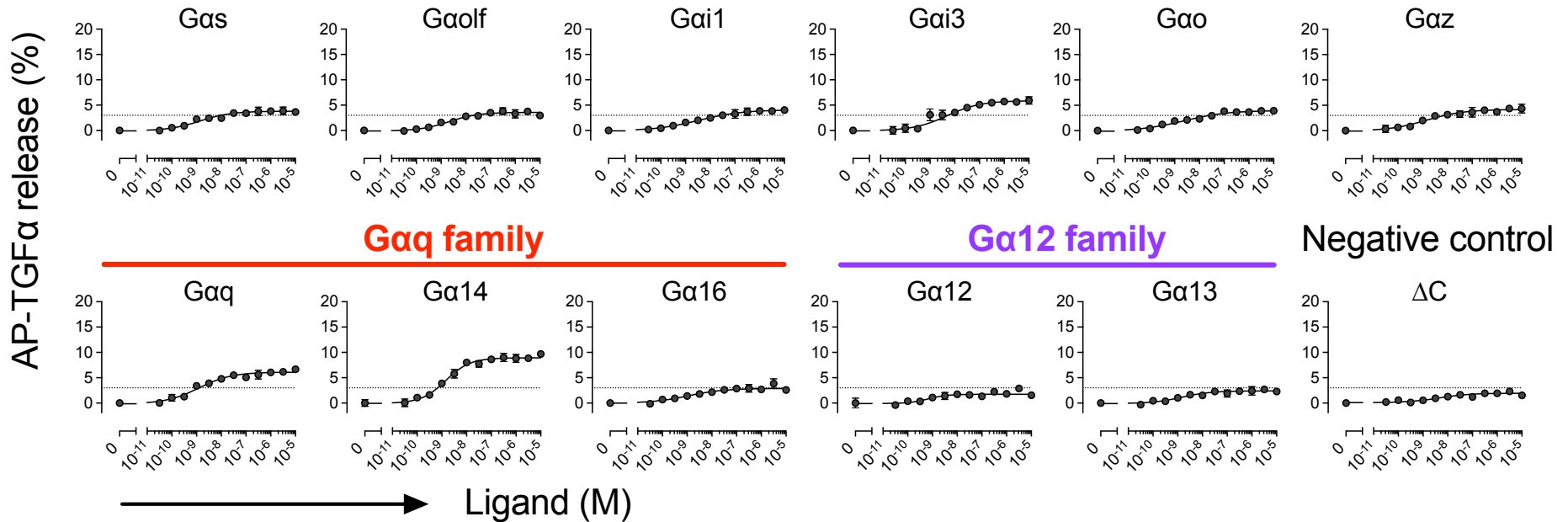
GPCR name: MC1

Tested ligand: α -melanocyte-stimulating hormone (α -MSH)

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *MC3R*

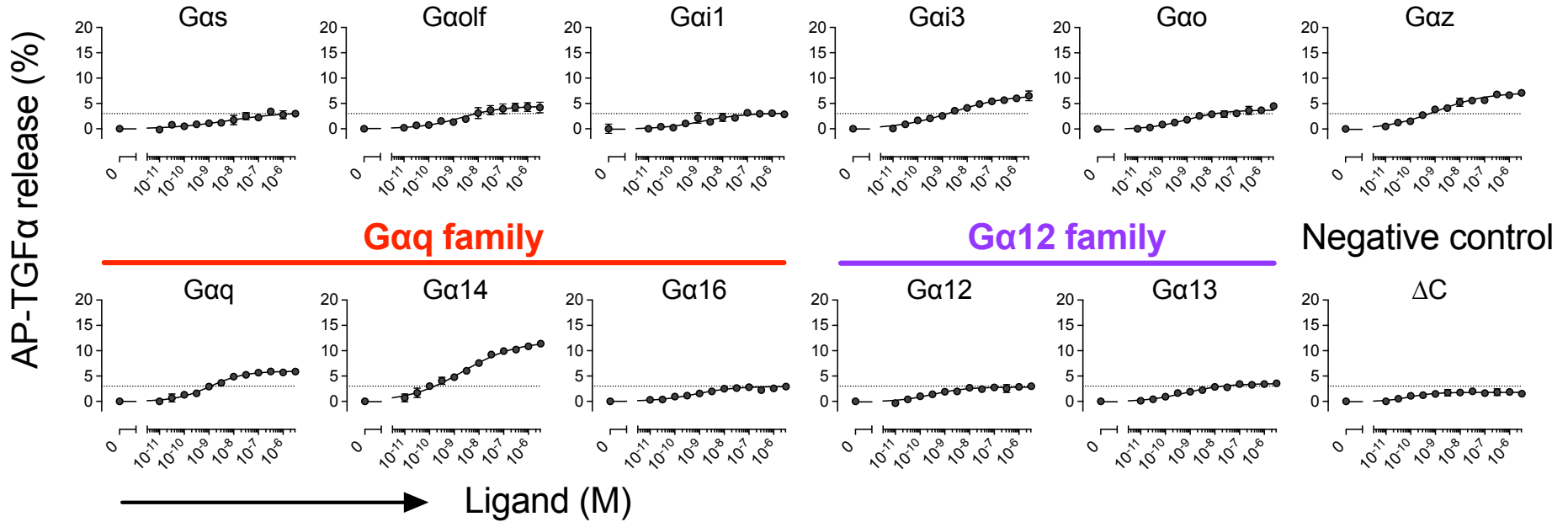
GPCR name: MC3

Tested ligand: α -melanocyte-stimulating hormone (α -MSH)

C-terminal chimera co-expression

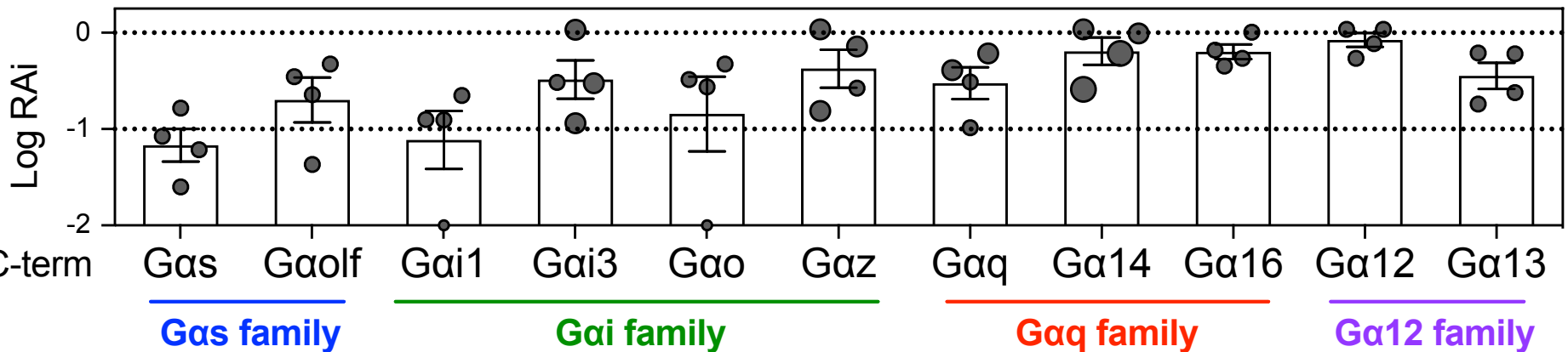
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



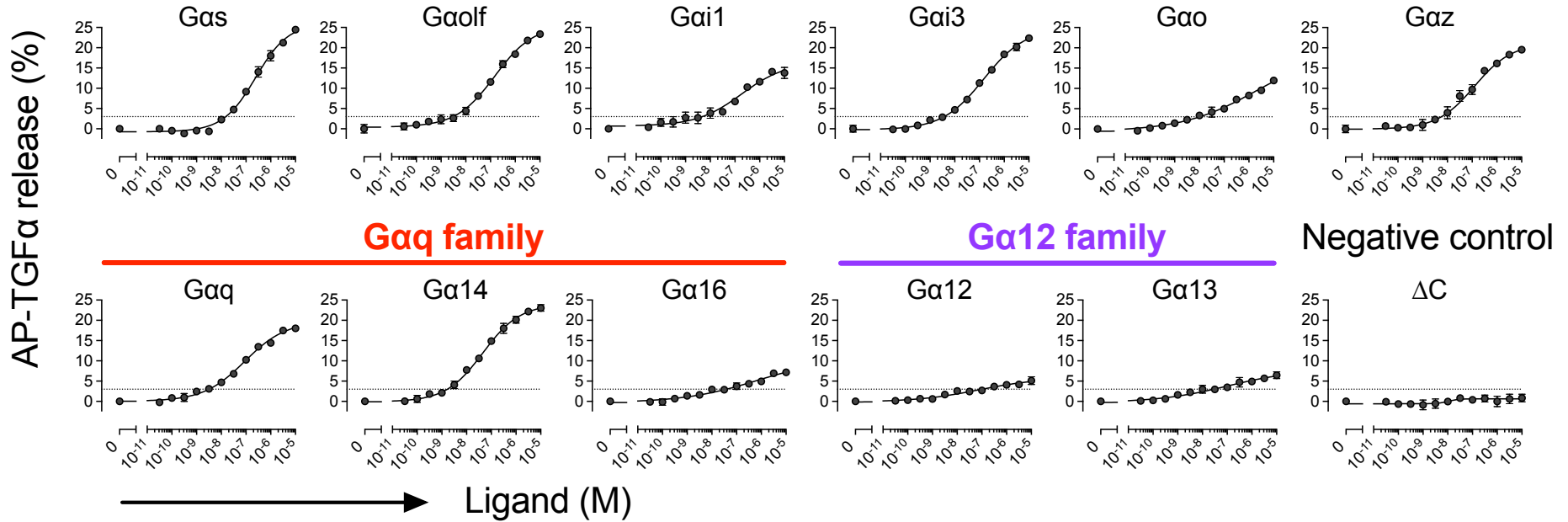
GPCR gene symbol: *MC4R*

GPCR name: MC4

Tested ligand: α -melanocyte-stimulating hormone (α -MSH)

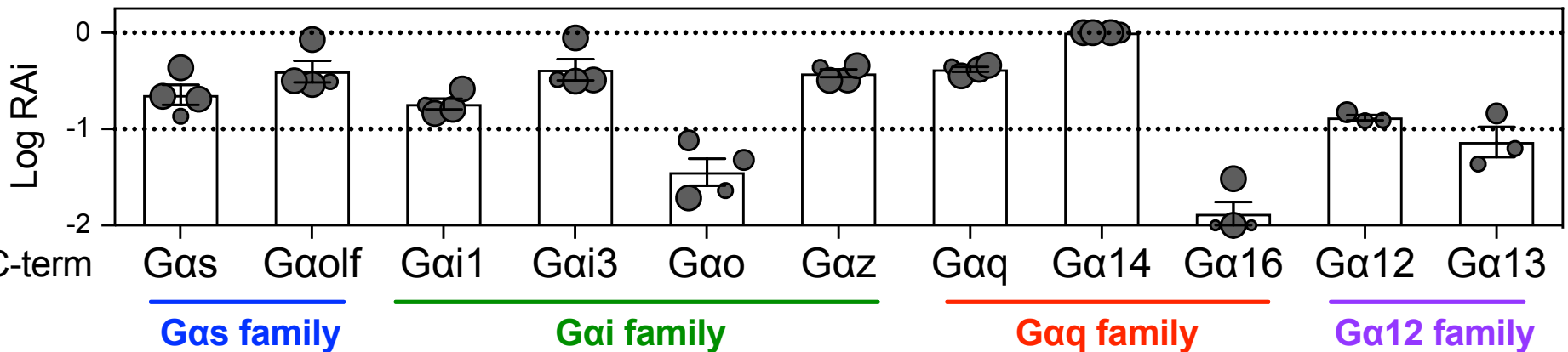
C-terminal chimera co-expression

Gas family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MC5R*

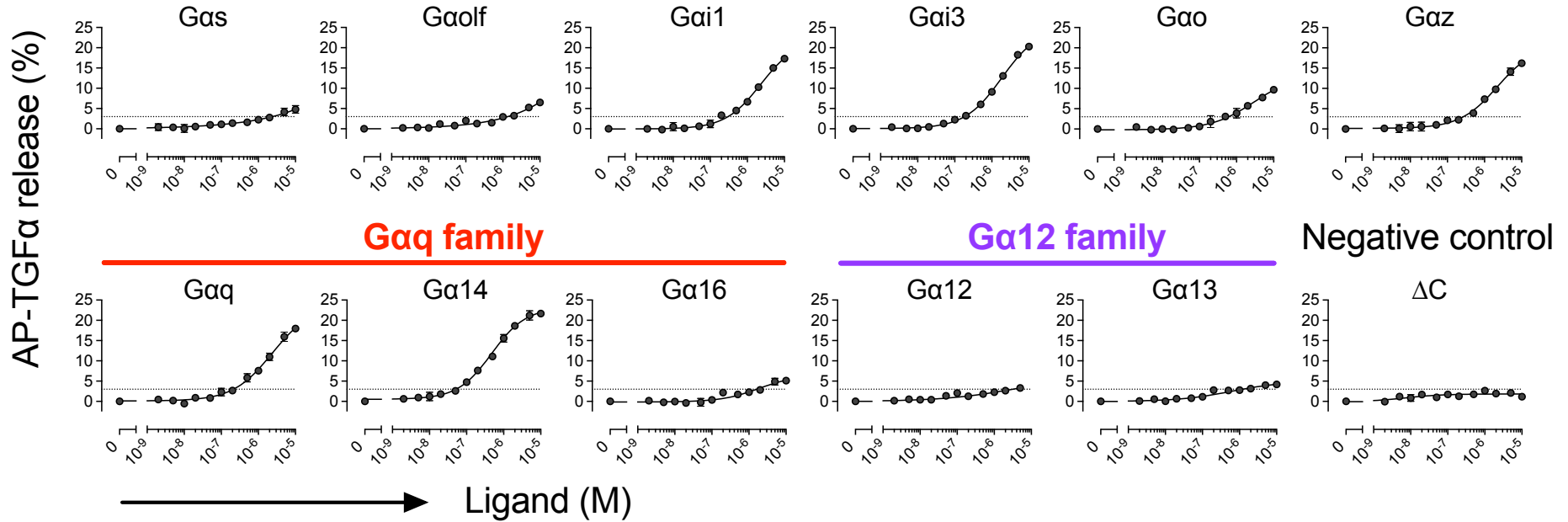
GPCR name: MC5

Tested ligand: α -melanocyte-stimulating hormone (α -MSH)

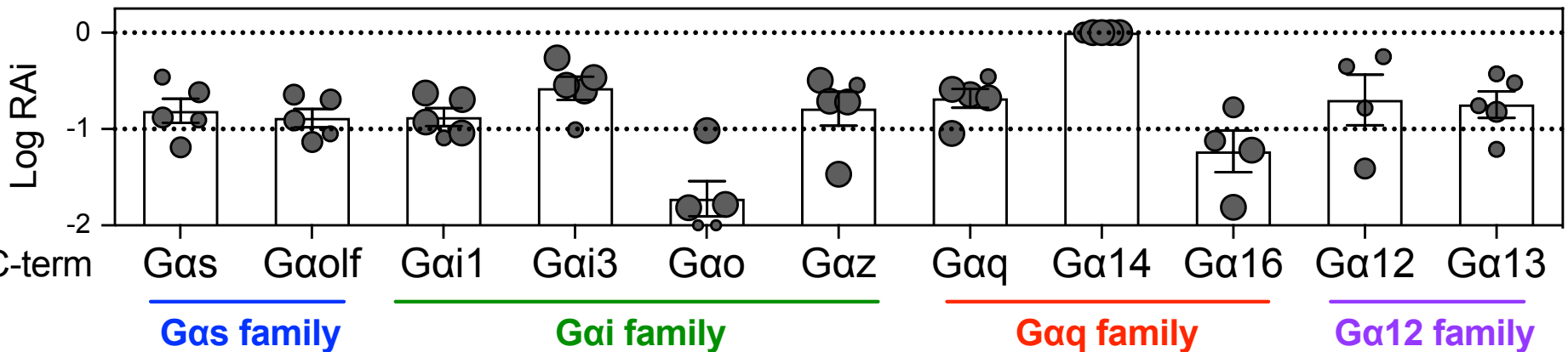
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MCHR1*

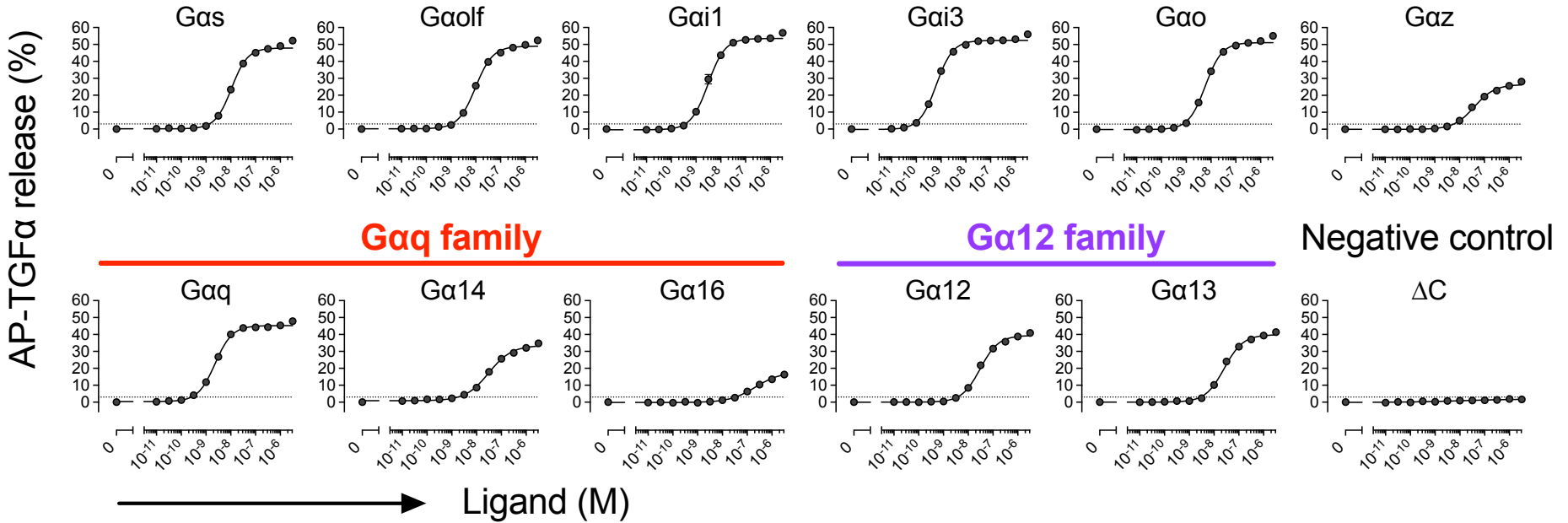
GPCR name: MCH1

Tested ligand: Melanin-concentrating hormone (MCH)

C-terminal chimera co-expression

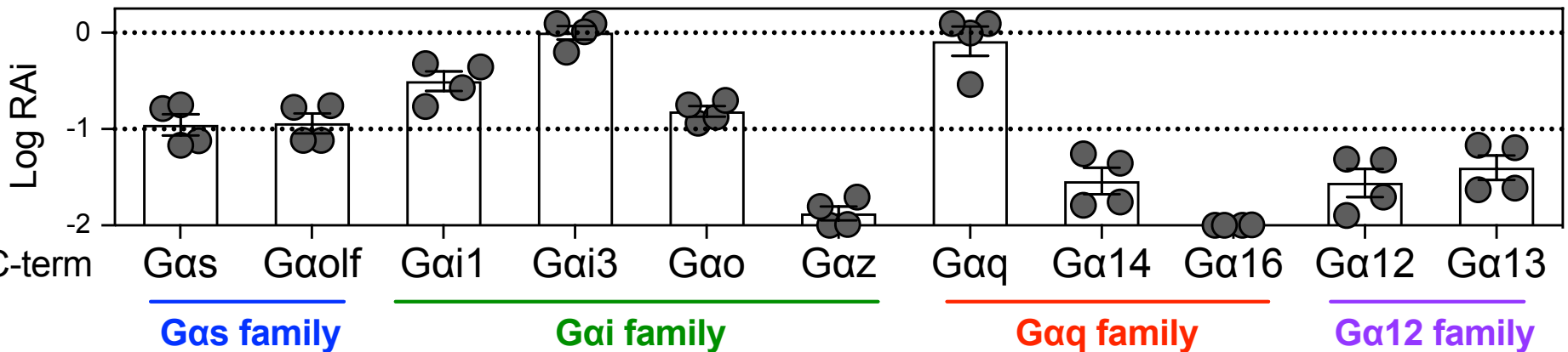
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MCHR2*

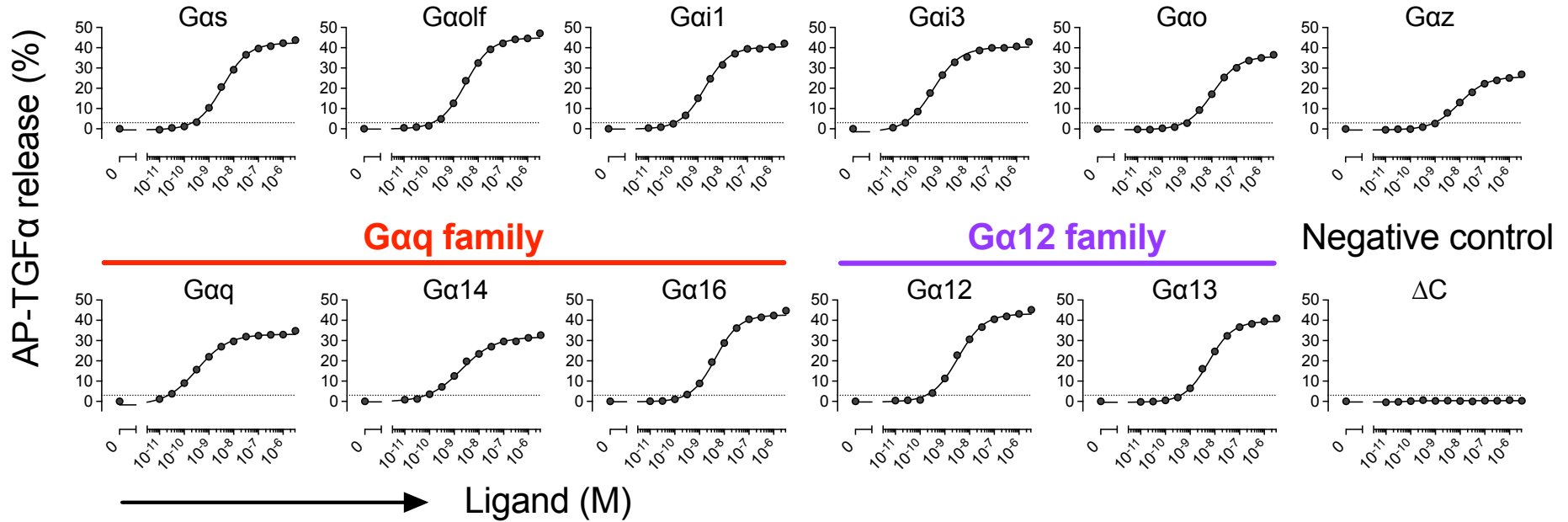
GPCR name: MCH2

Tested ligand: Melanin-concentrating hormone (MCH)

C-terminal chimera co-expression

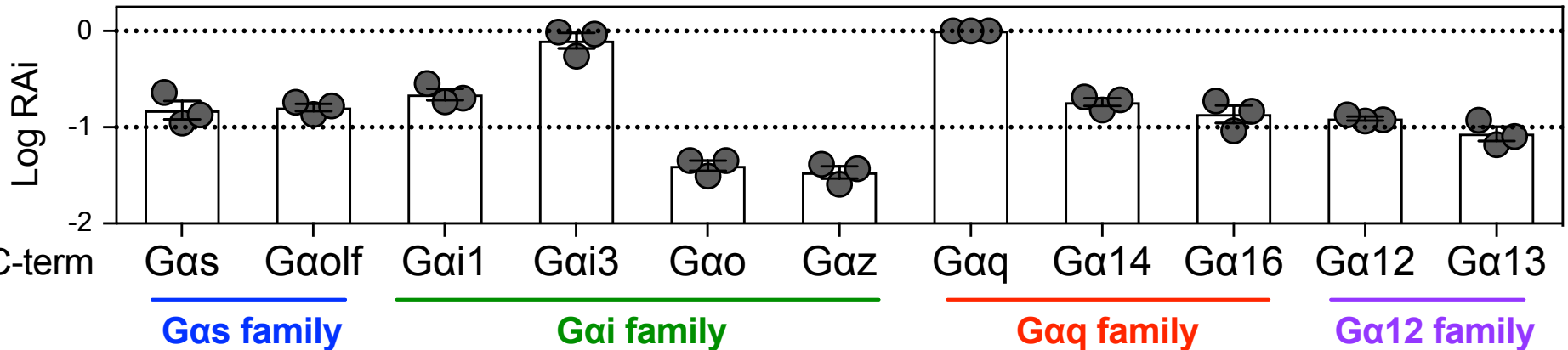
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MLNR*

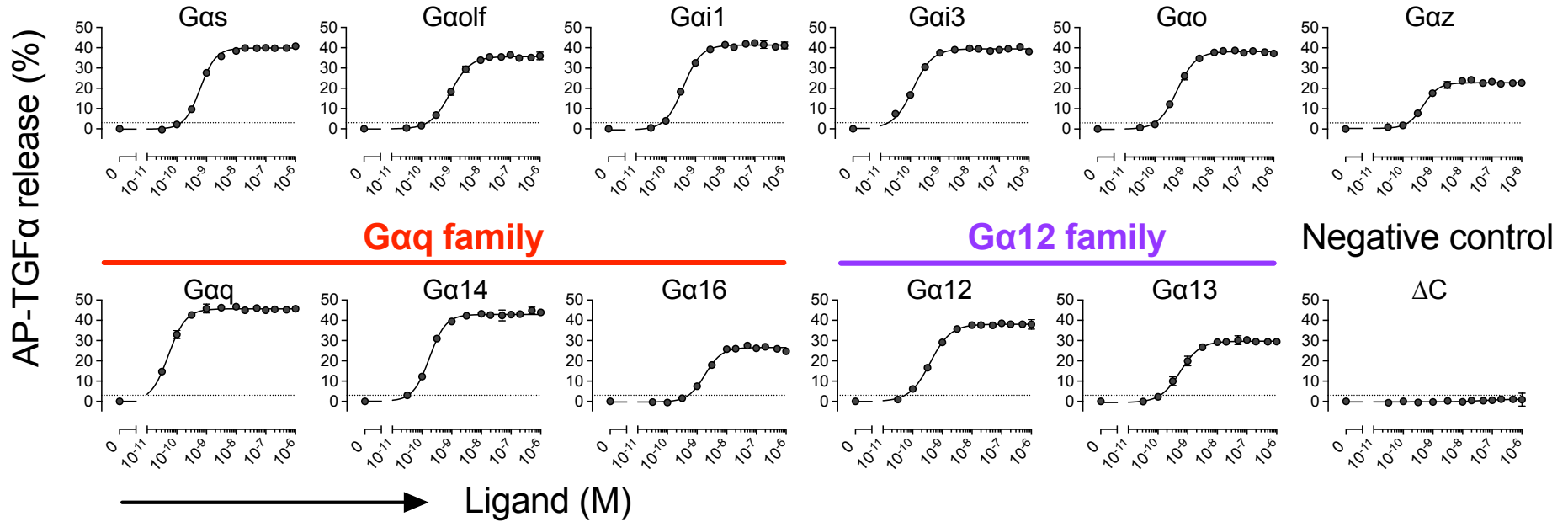
GPCR name: MLNR

Tested ligand: Motilin

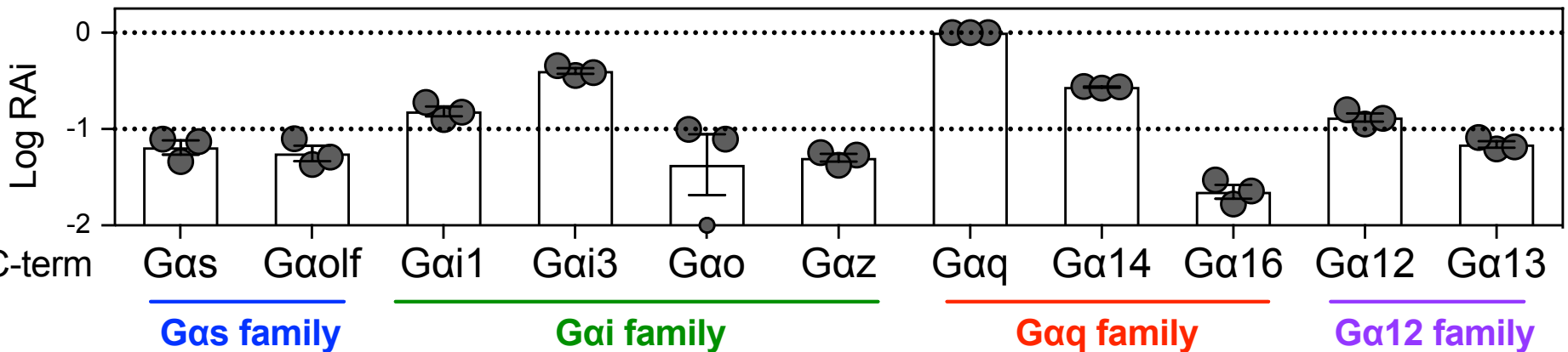
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MRGPRX1*

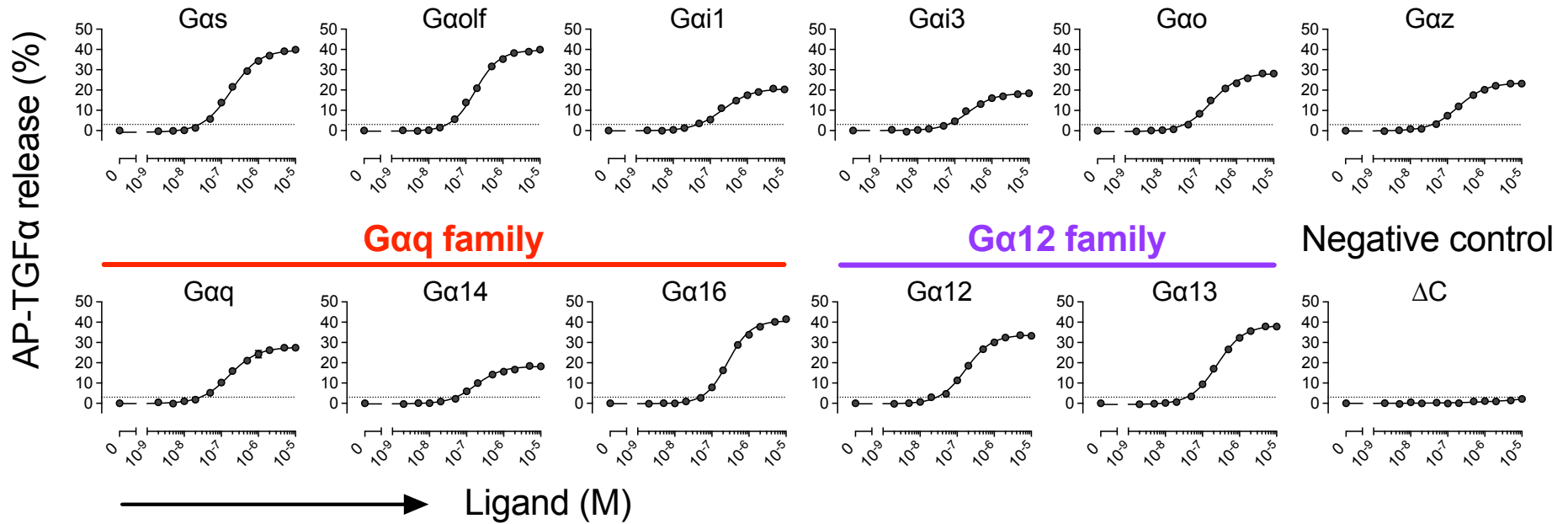
GPCR name: MRGX1

Tested ligand: BAM-22P

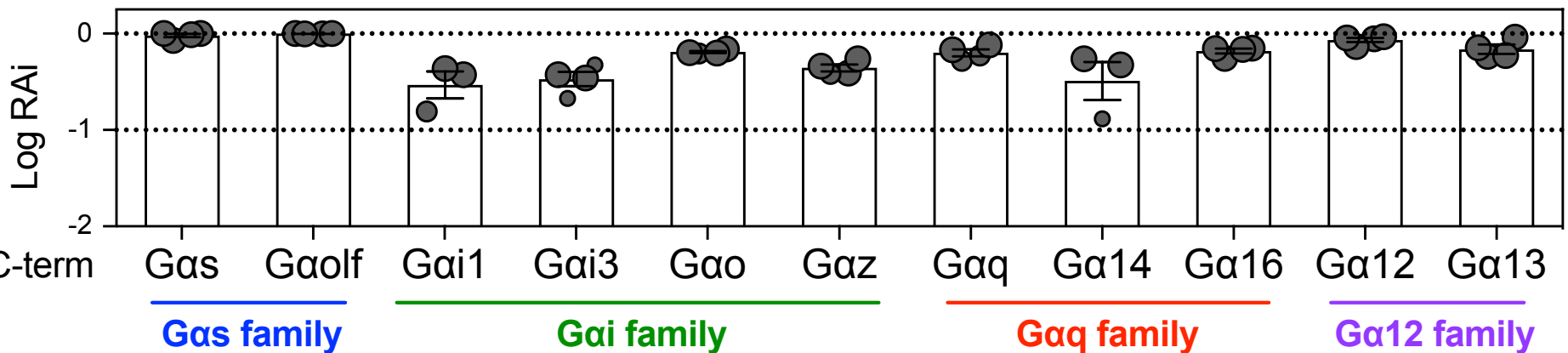
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MRGPRX2*

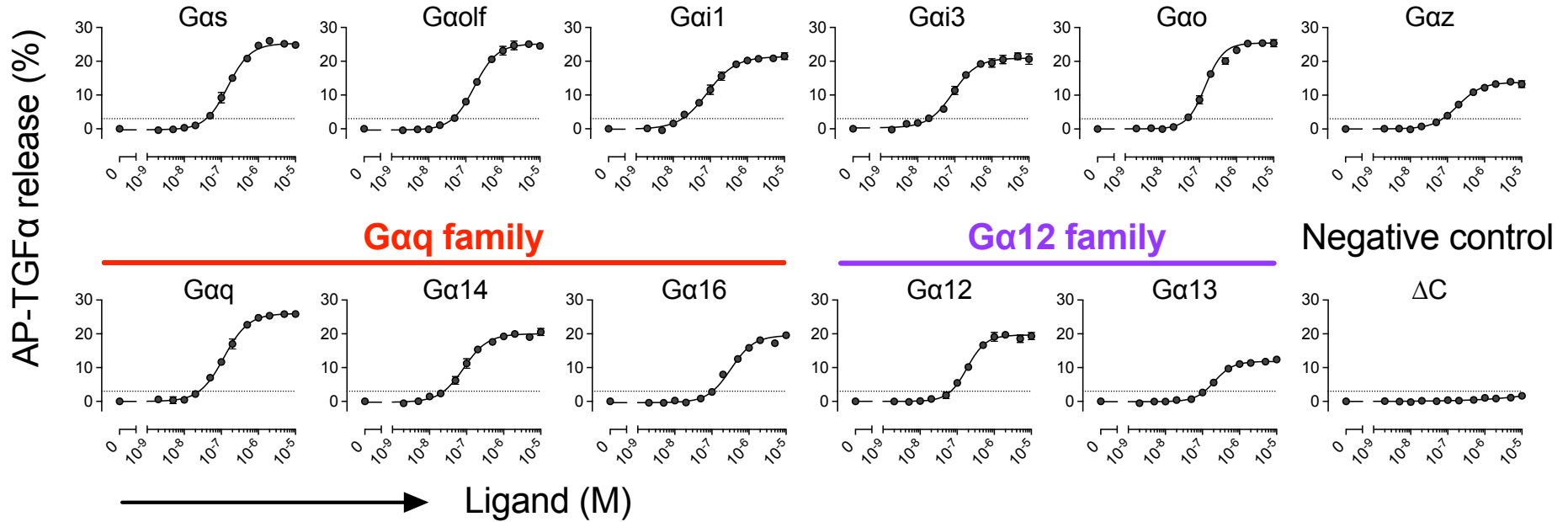
GPCR name: MRGX2

Tested ligand: Cortistatin-14

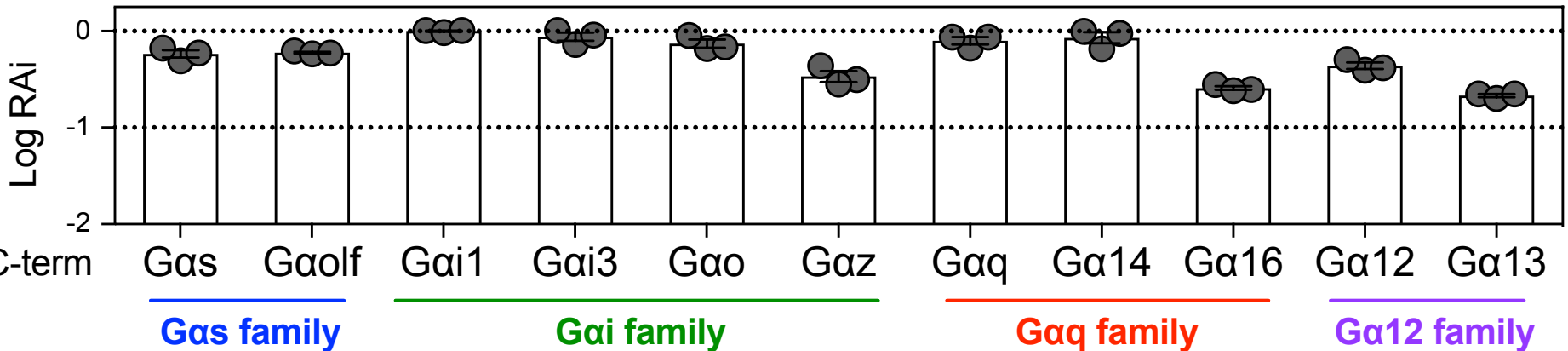
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MTNR1A*

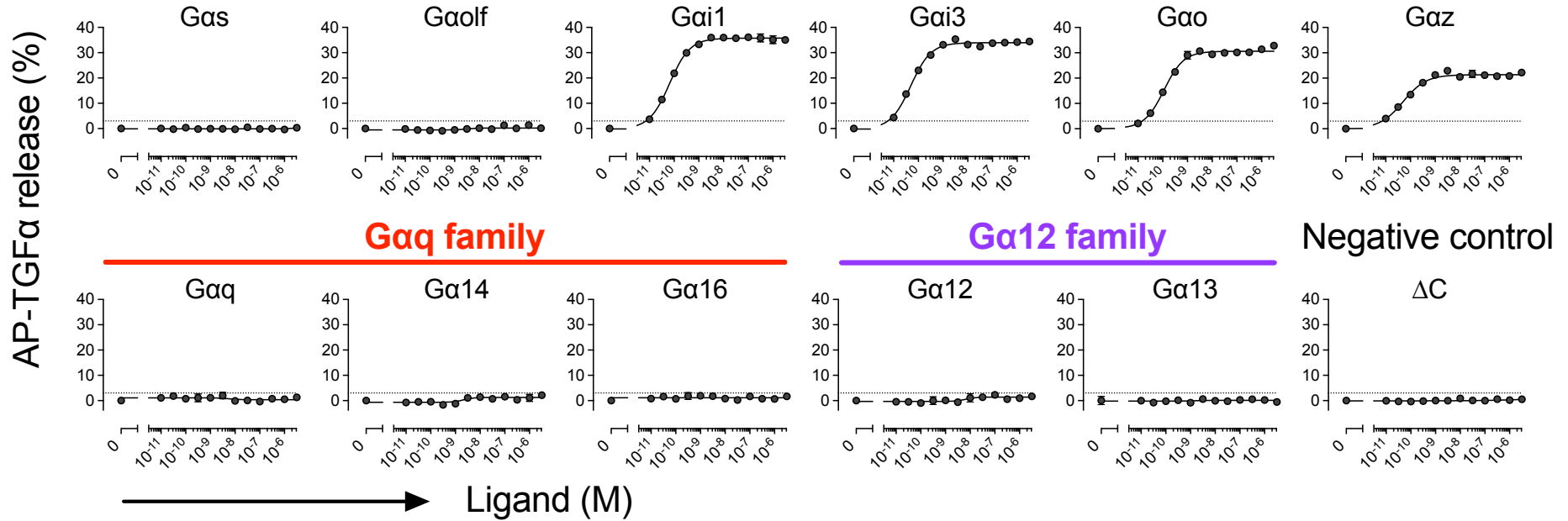
GPCR name: MT1

Tested ligand: Melatonin

C-terminal chimera co-expression

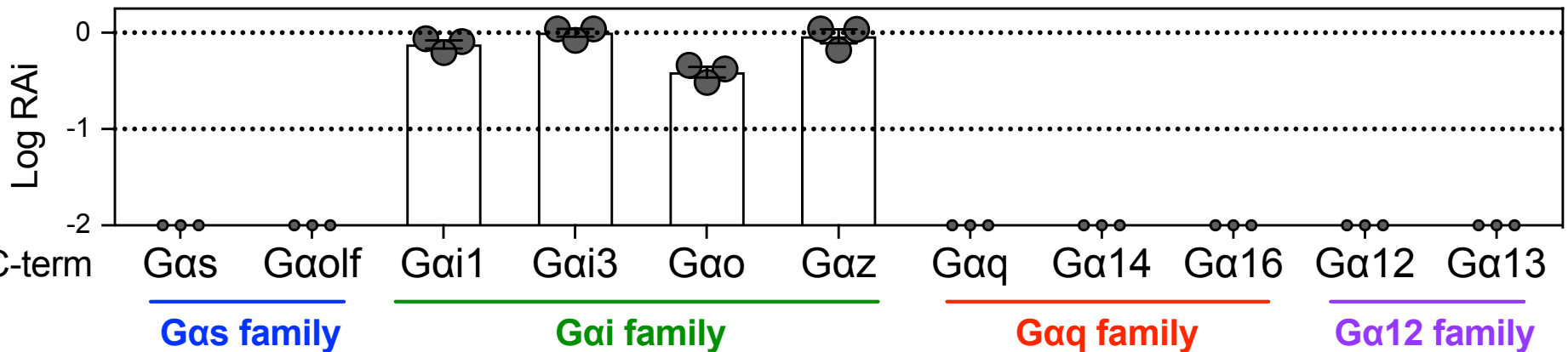
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *MTNR1B*

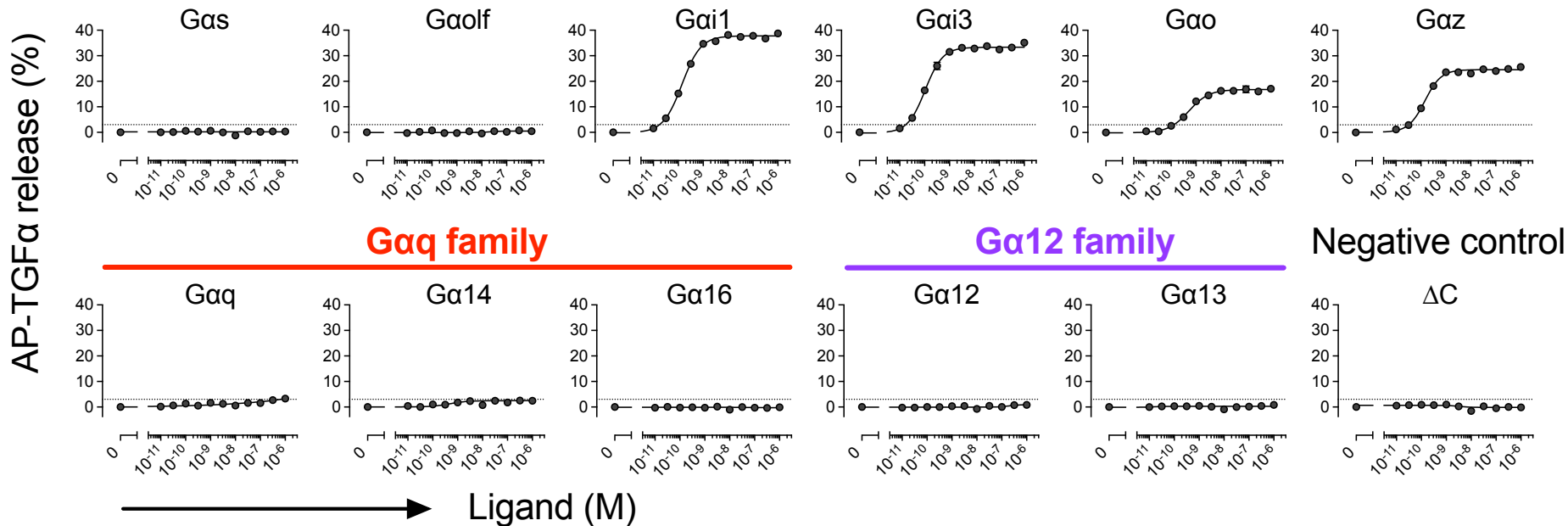
GPCR name: MT2

Tested ligand: Melatonin

C-terminal chimera co-expression

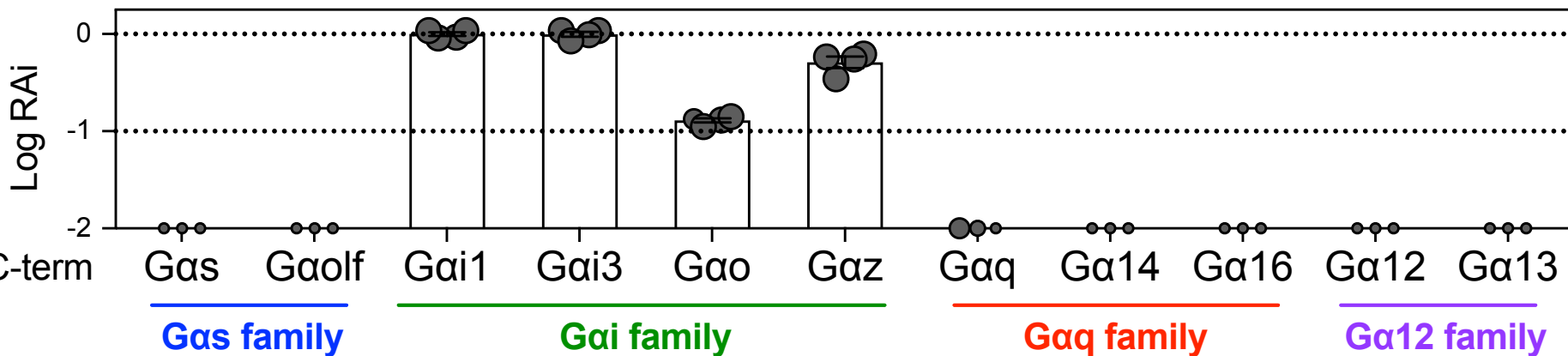
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *NMBR*

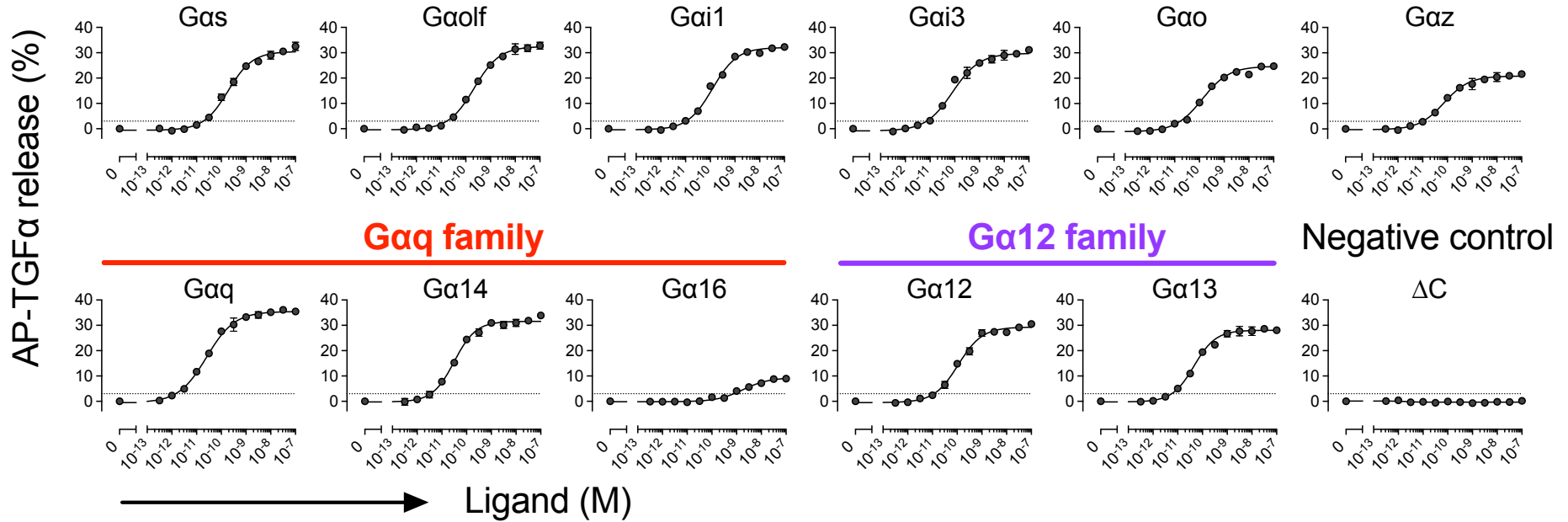
GPCR name: BB1

Tested ligand: Neuromedin B

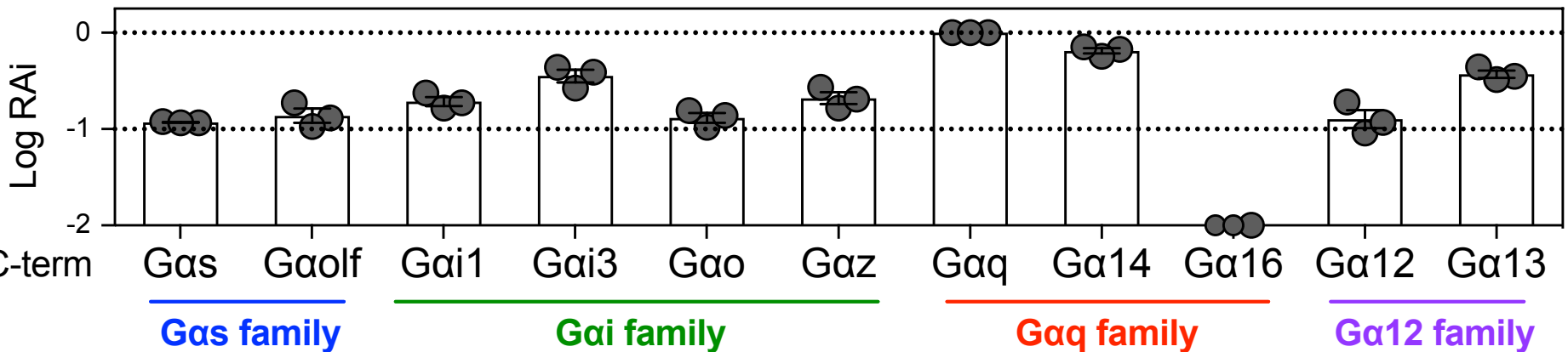
C-terminal chimera co-expression

Gas family

Gai family

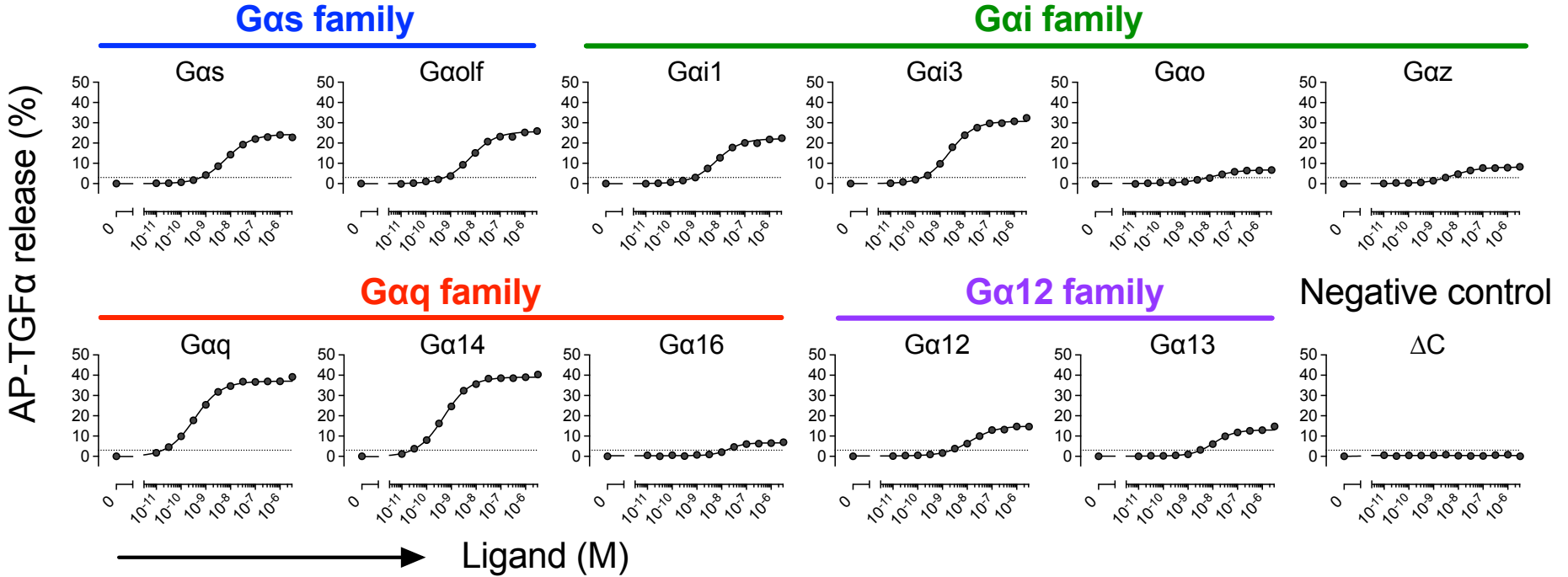


E_{max} (%AP-TGFα release) ● <math><3\%</math> ● $3-5\%$ ● $5-10\%$ ● $>10\%$

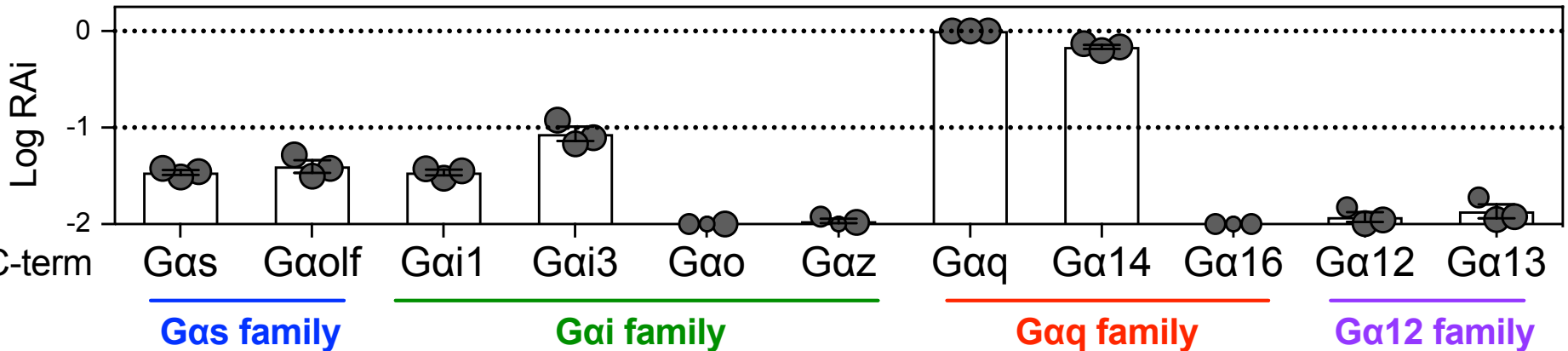


GPCR gene symbol: *NMUR1*
 GPCR name: NMU1
 Tested ligand: Neuromedin U-25

C-terminal chimera co-expression

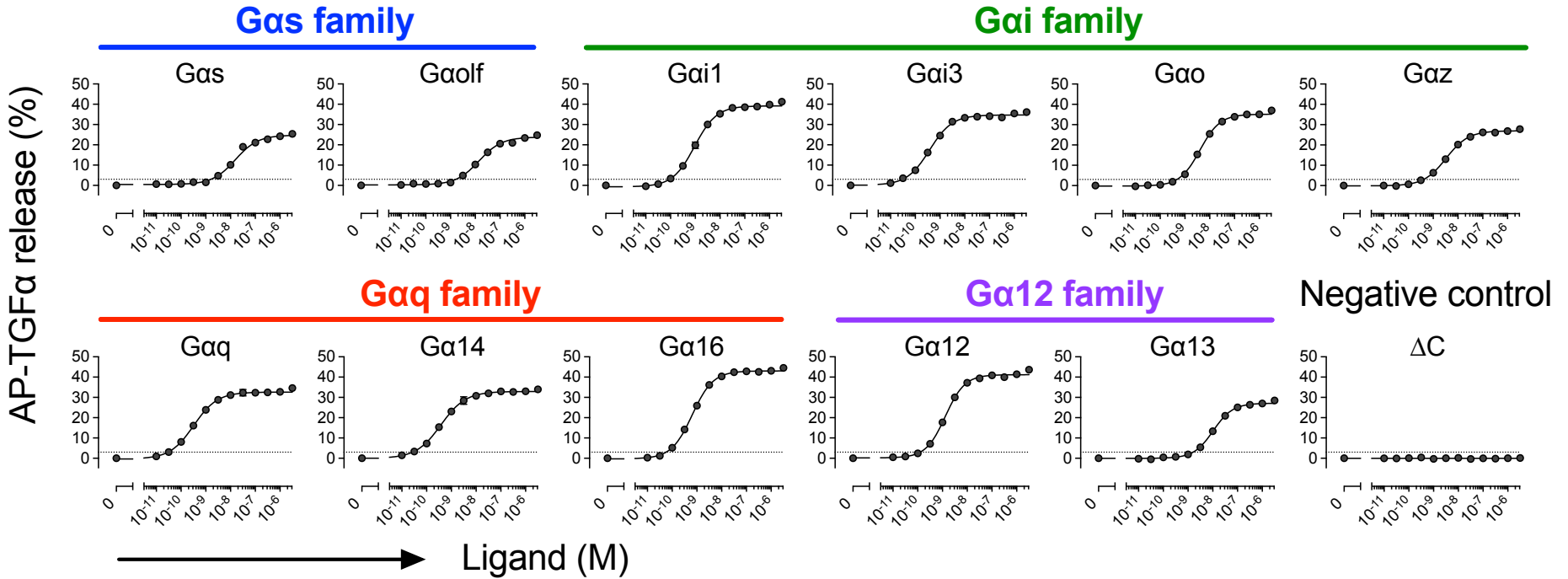


E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%

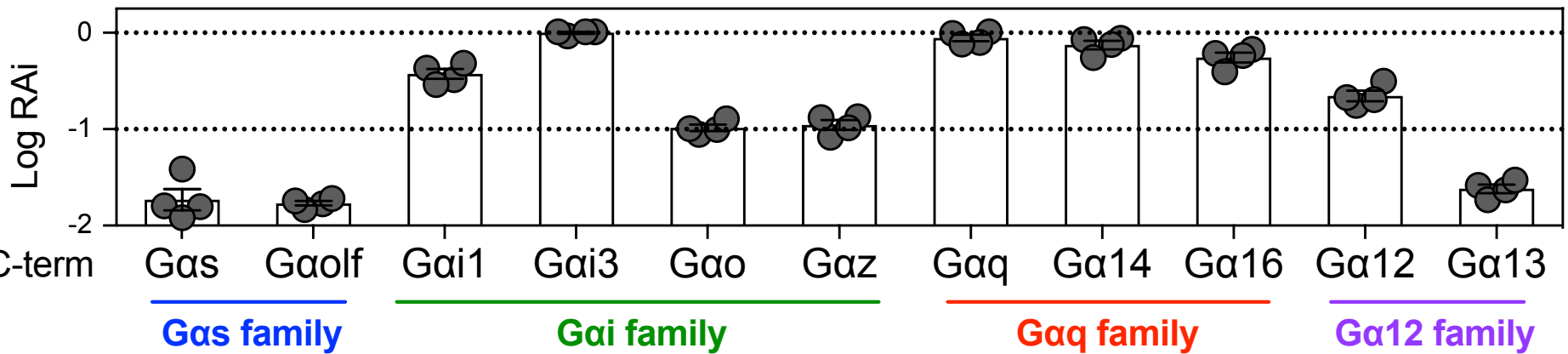


GPCR gene symbol: *NMUR2*
 GPCR name: NMU2
 Tested ligand: Neuromedin U-25

C-terminal chimera co-expression



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *NPBWR1*

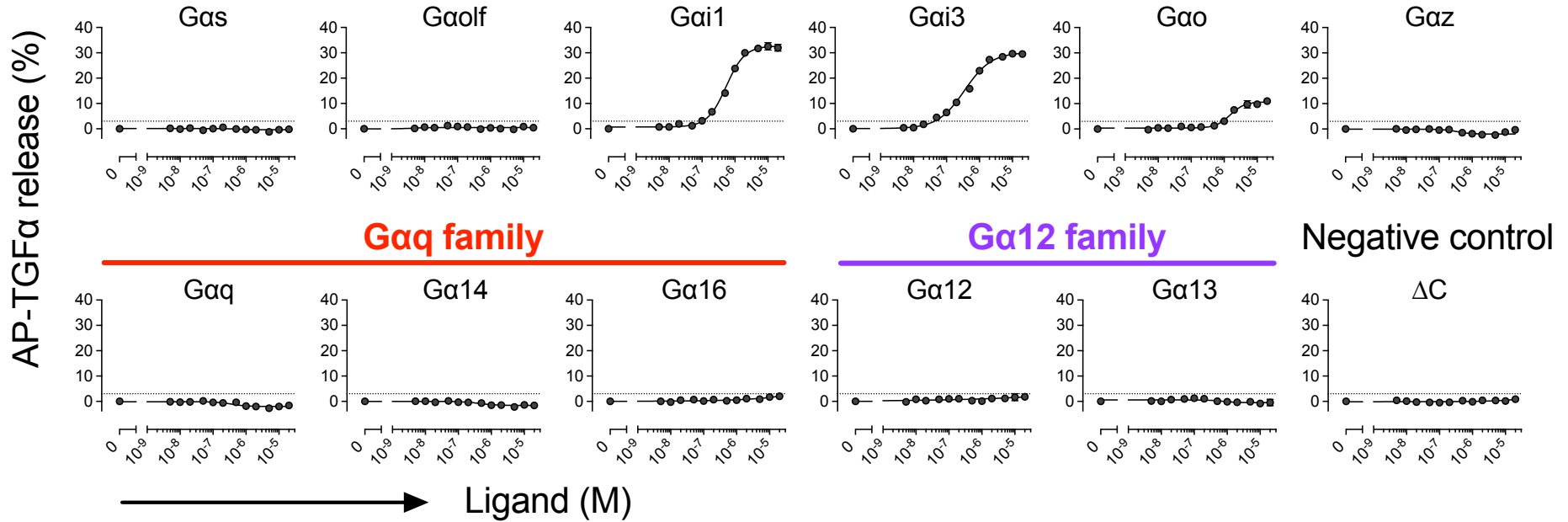
GPCR name: NPBW1

Tested ligand: Neuropeptide W-30

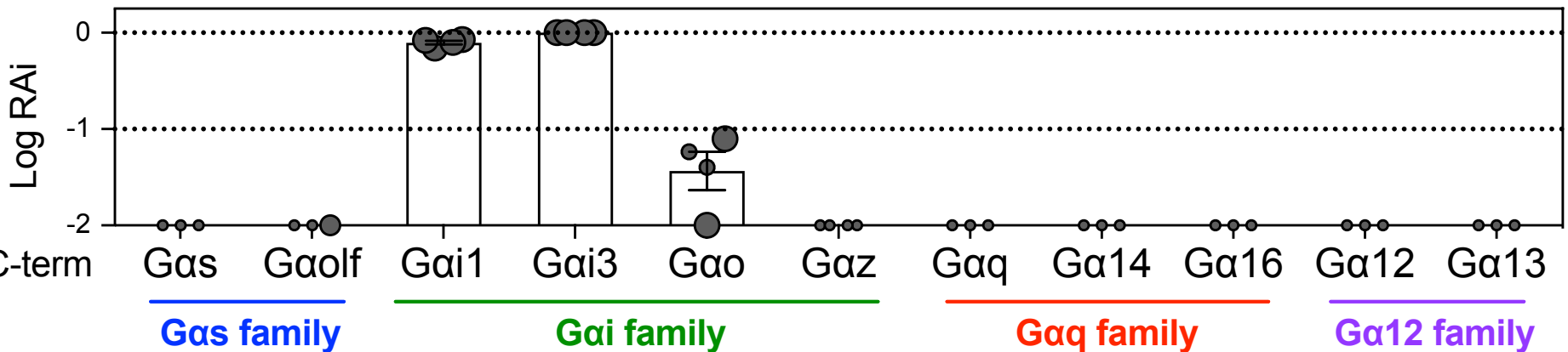
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *NPFFR1*

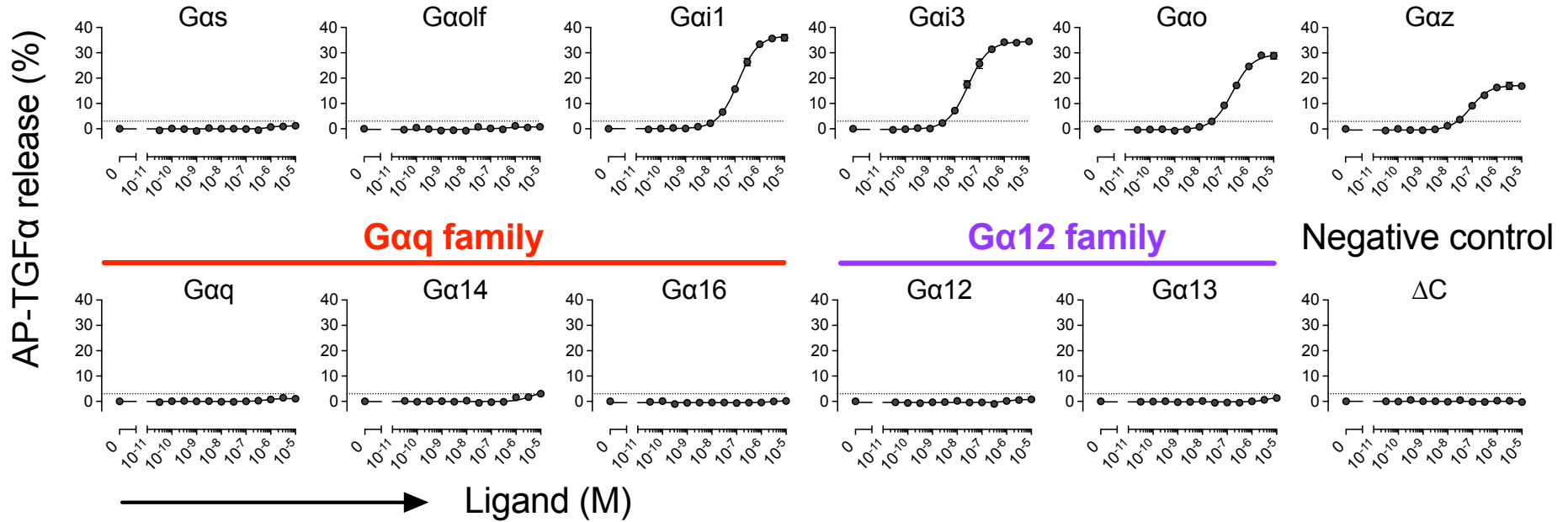
GPCR name: NPFF1

Tested ligand: Neuropeptide FF

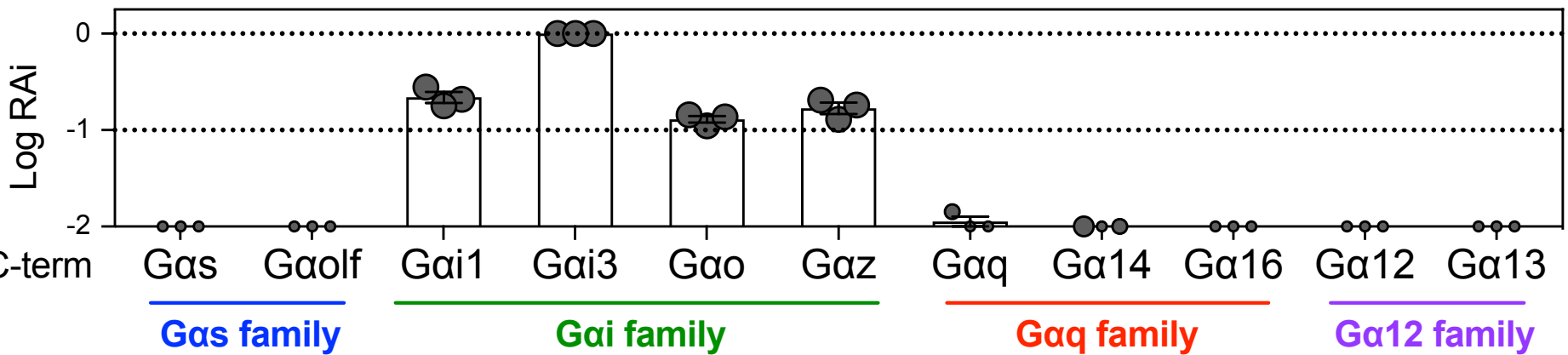
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%

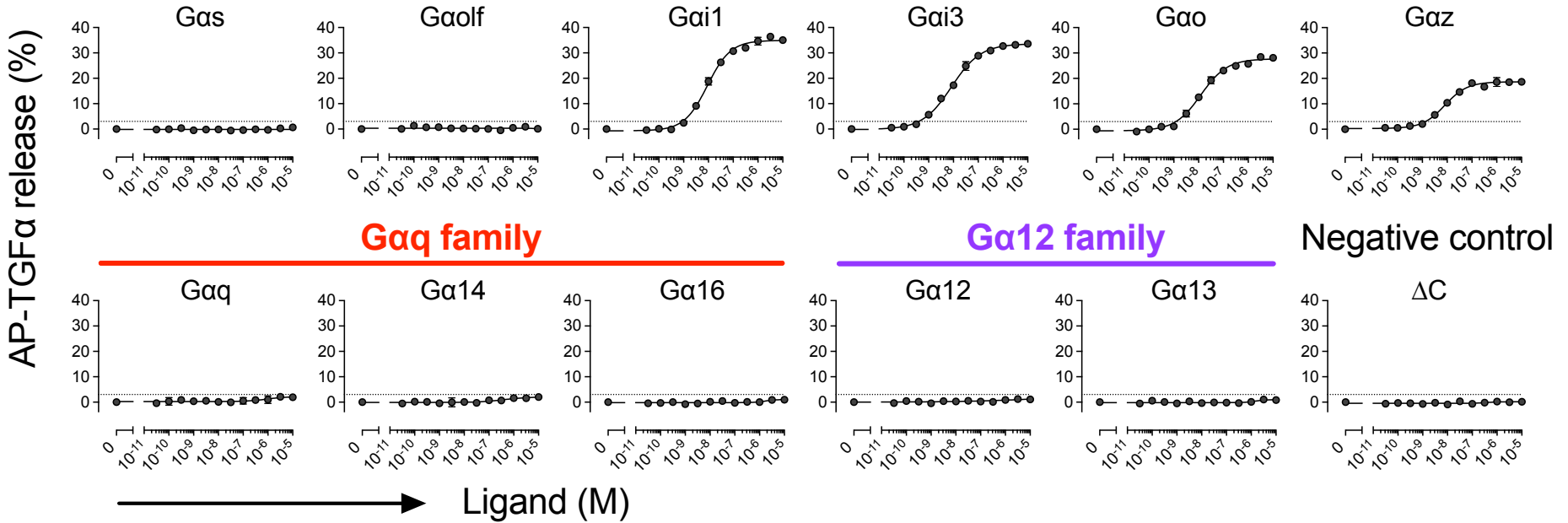


GPCR gene symbol: *NPFFR2*
 GPCR name: NPFF2
 Tested ligand: Neuropeptide FF

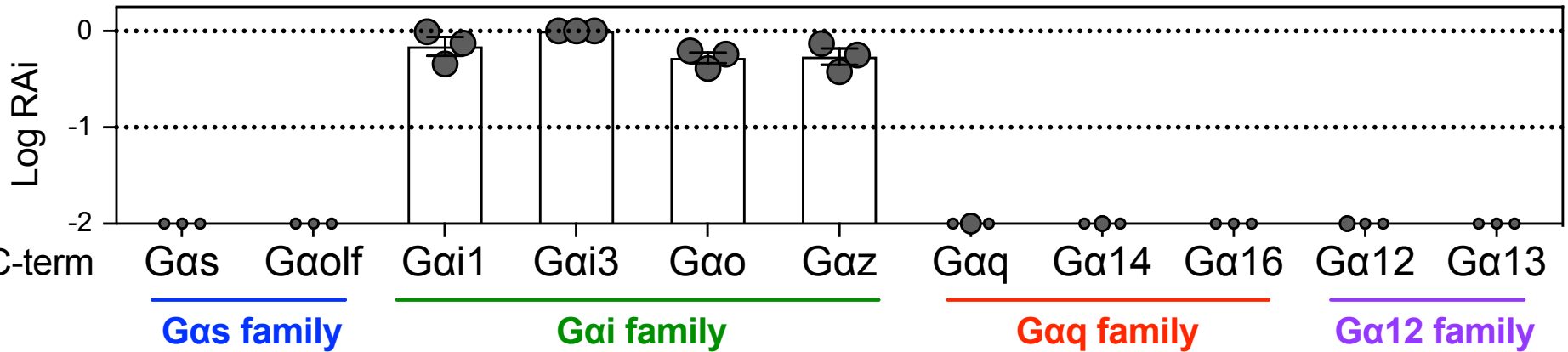
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *OPRD1*

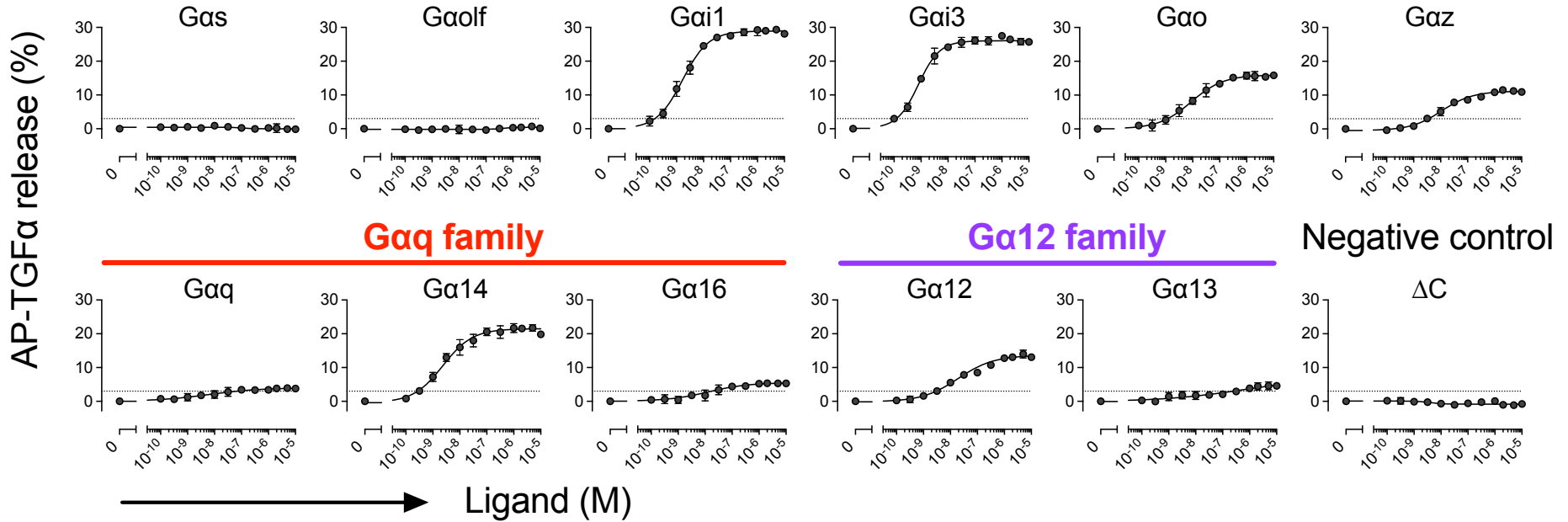
GPCR name: δ

Tested ligand: Methionine-Enkephalin

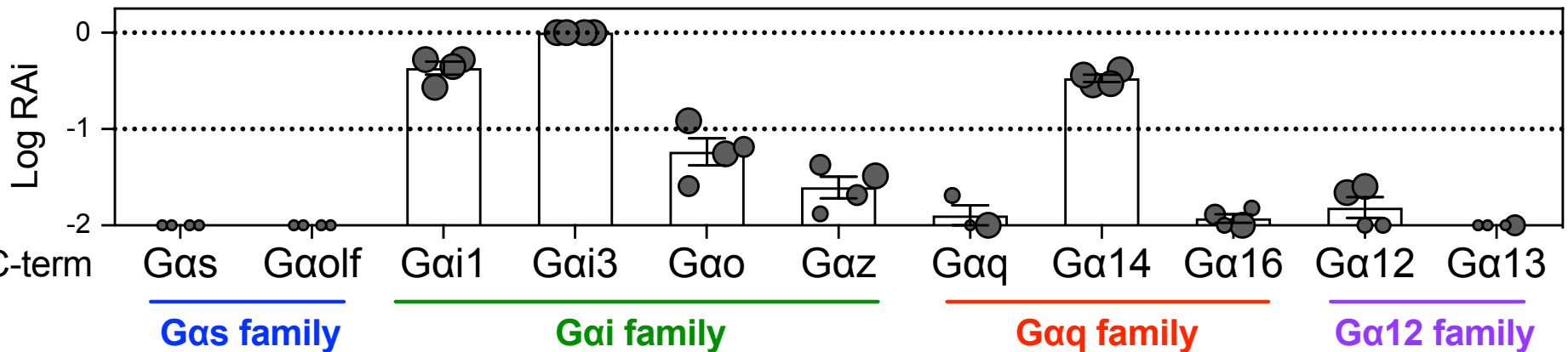
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *OPRK1*

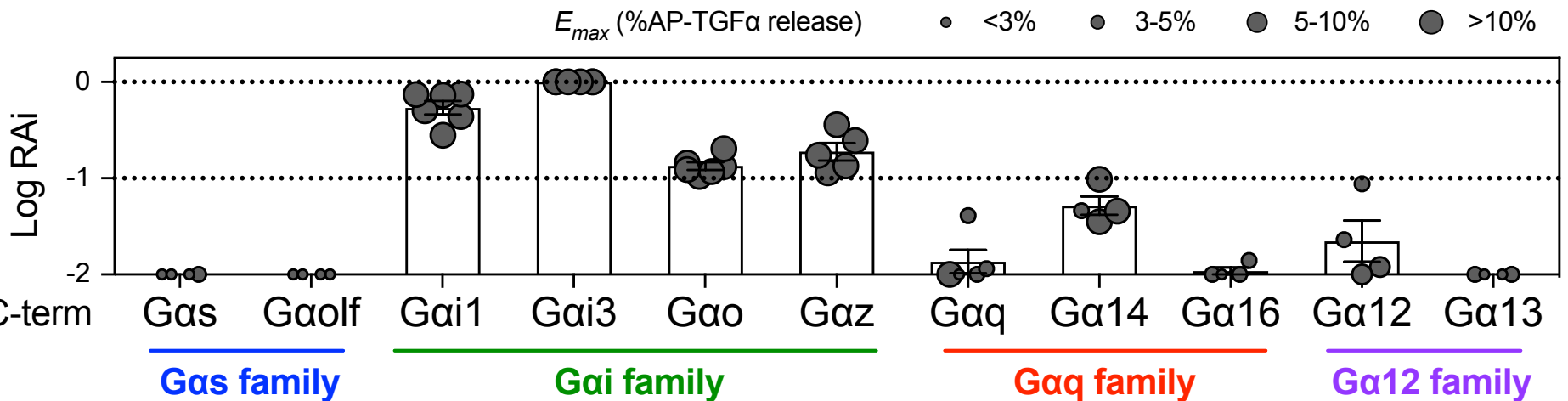
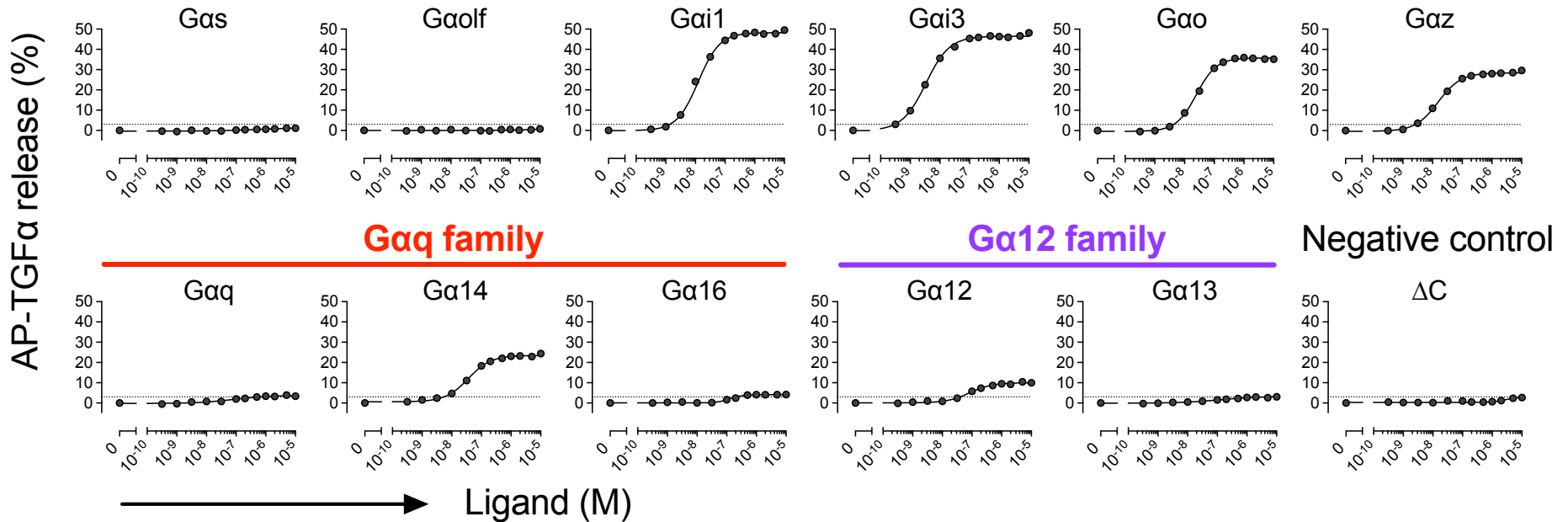
GPCR name: κ

Tested ligand: Dynorphin-A

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *OPRL1*

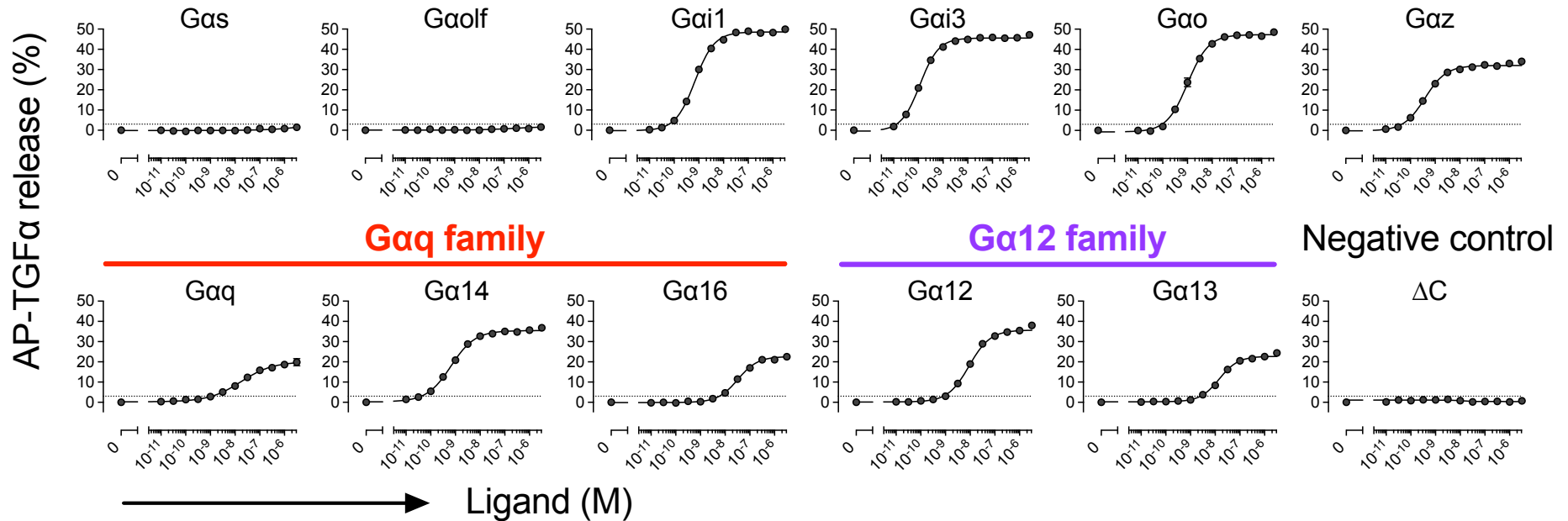
GPCR name: NOP

Tested ligand: Nociceptin

C-terminal chimera co-expression

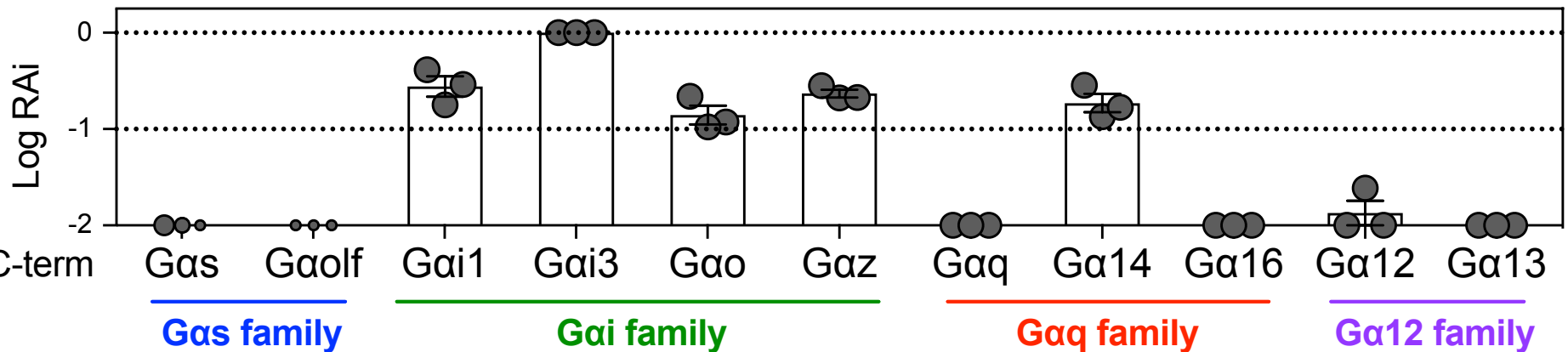
Gas family

Gai family



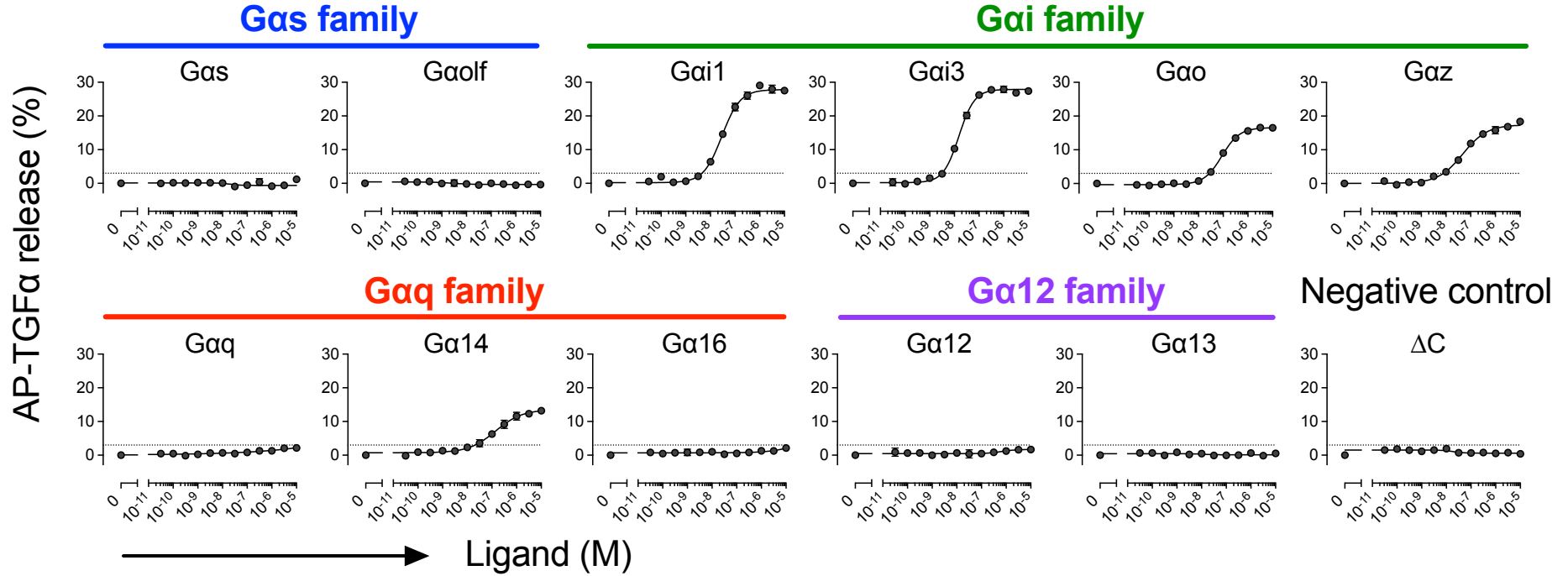
E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%

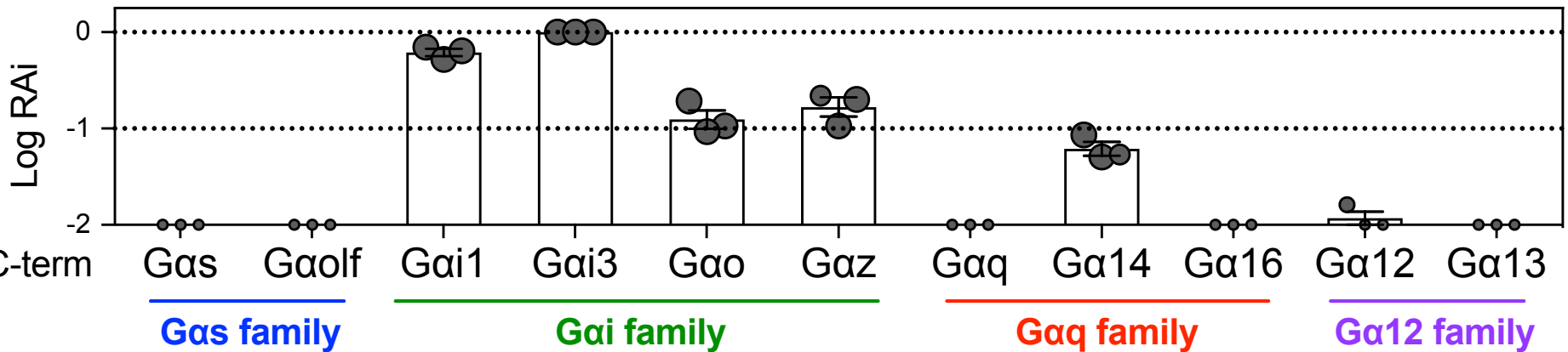


GPCR gene symbol: *OPRM1*
 GPCR name: μ
 Tested ligand: Methionine-Enkephalin

C-terminal chimera co-expression



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *OXGR1*

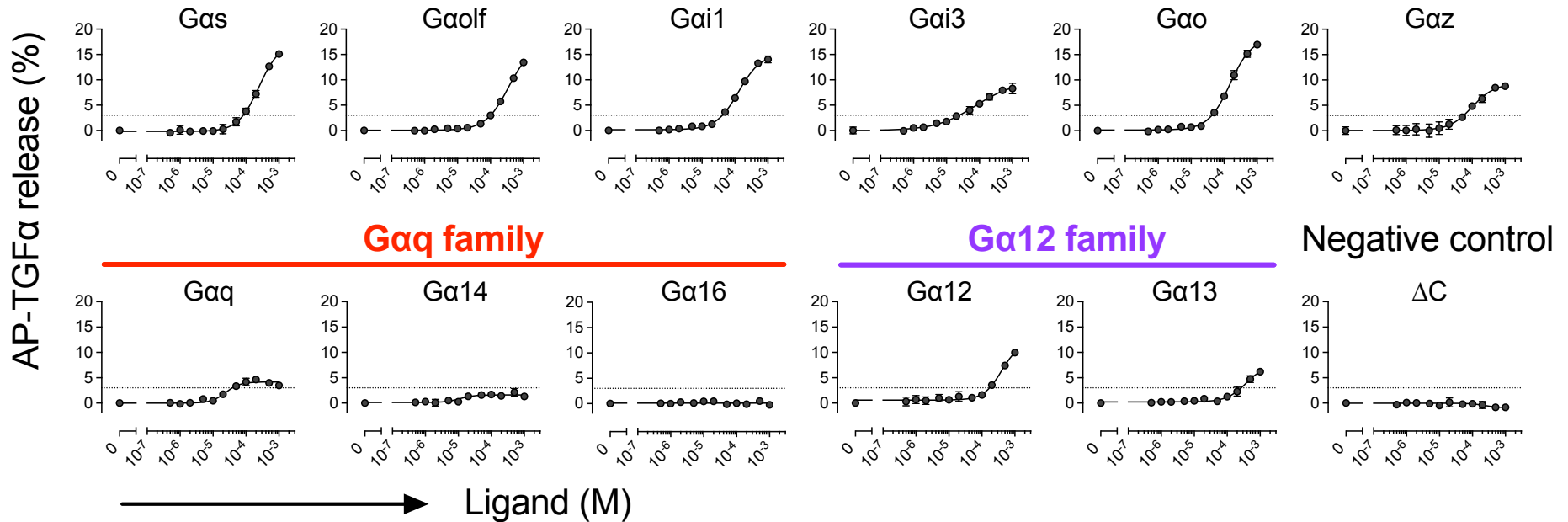
GPCR name: OXGR1

Tested ligand: 2-oxo-glutaric acid

C-terminal chimera co-expression

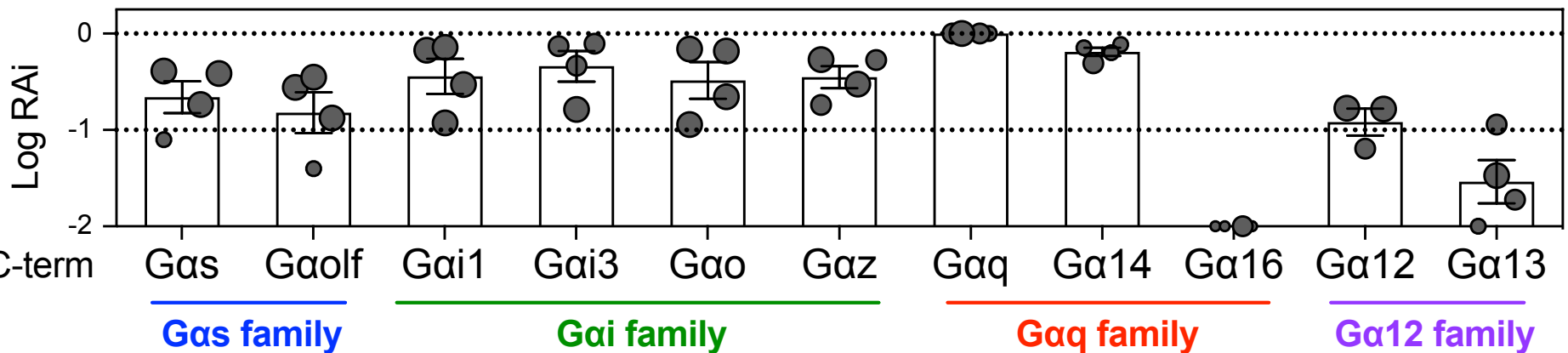
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *OXTR*

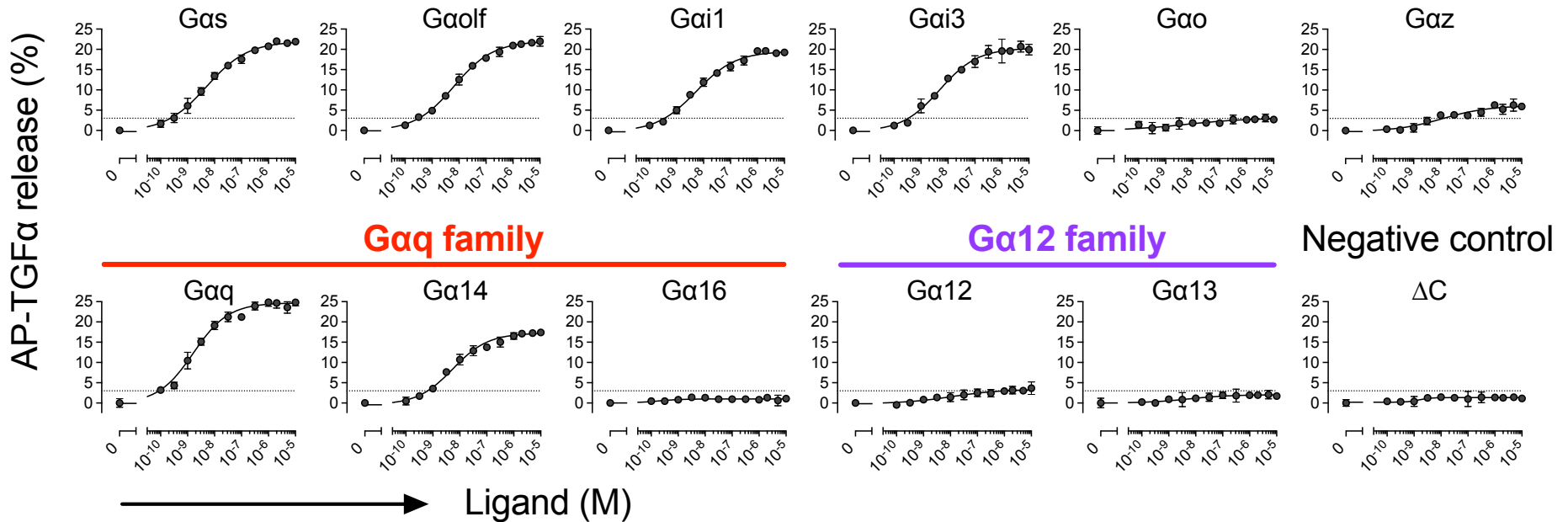
GPCR name: OT

Tested ligand: Oxytocin

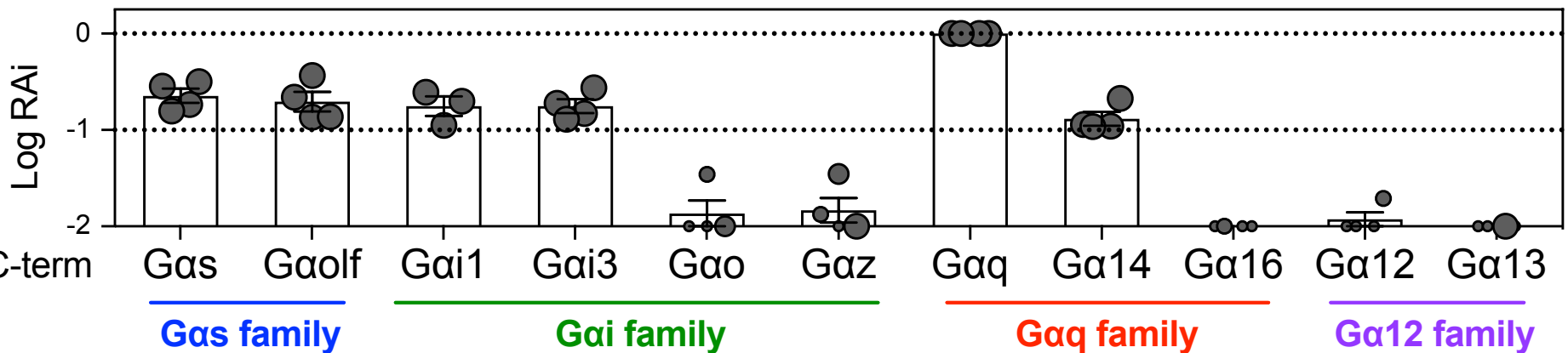
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY1*

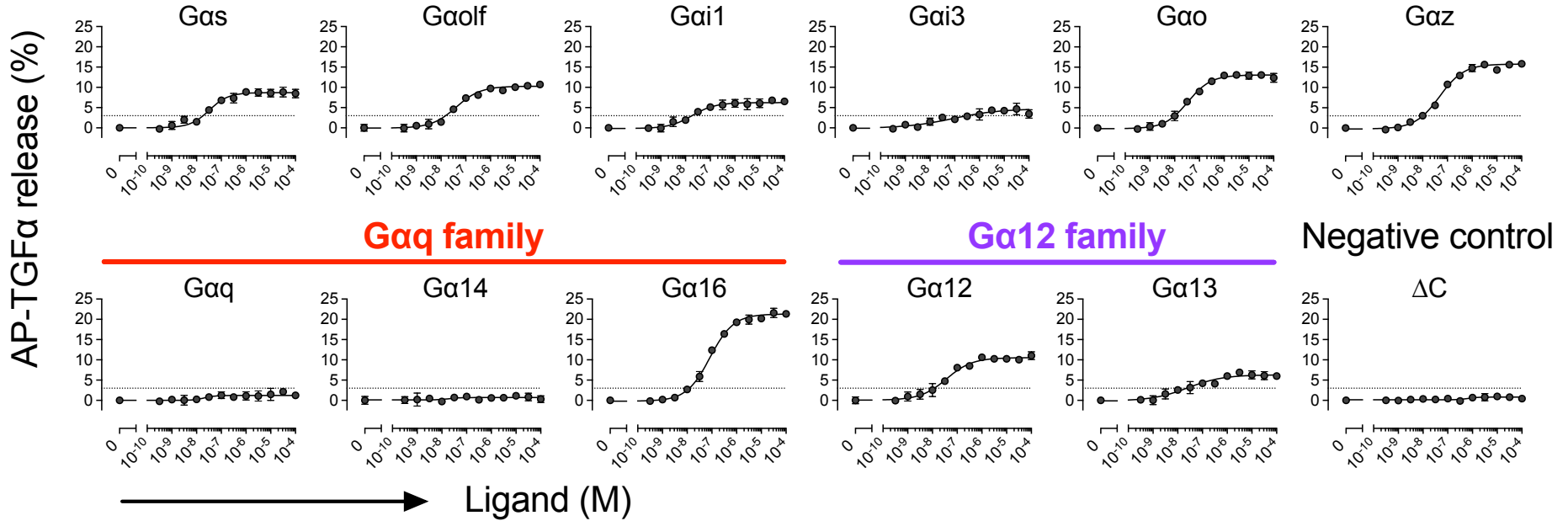
GPCR name: P2Y1

Tested ligand: ADP

C-terminal chimera co-expression

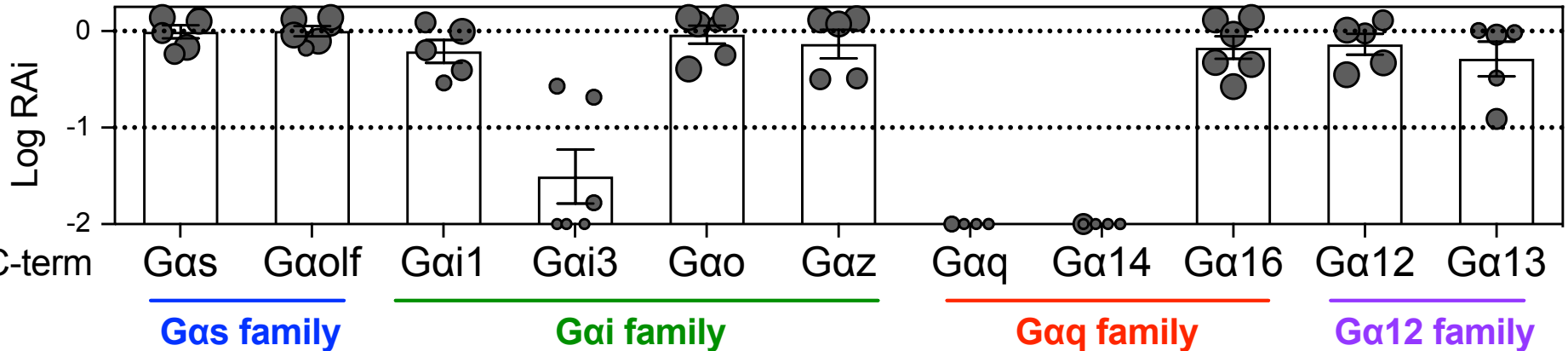
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY10*

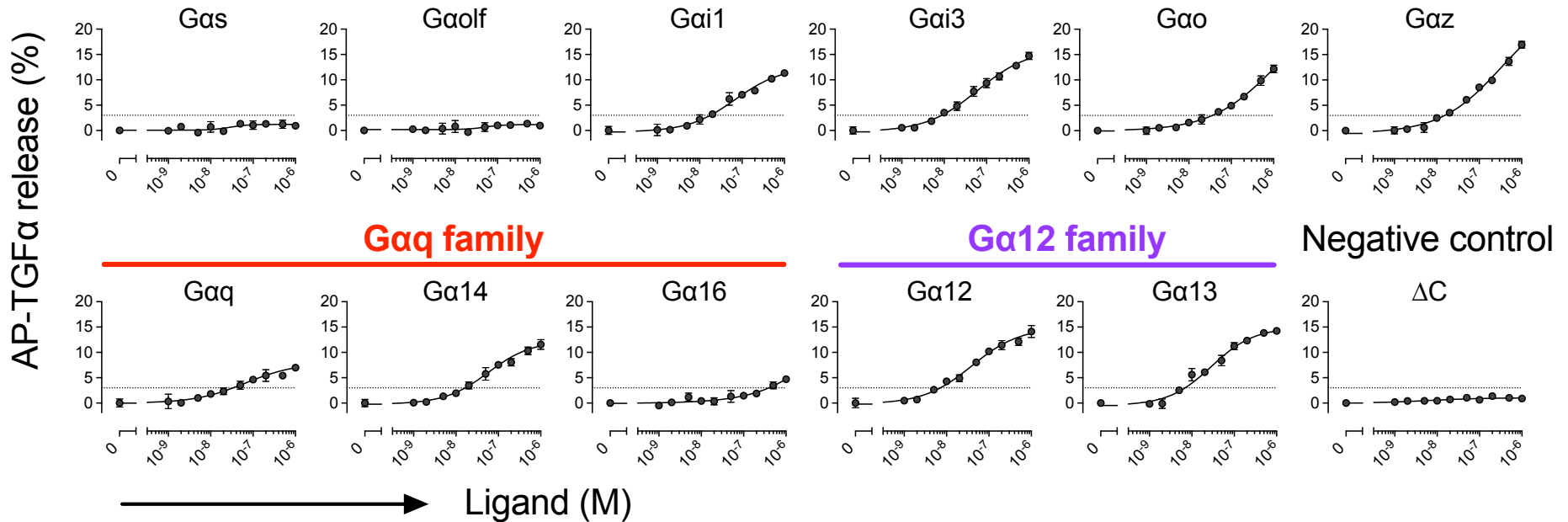
GPCR name: P2RY10

Tested ligand: Lysophosphatidylserine

C-terminal chimera co-expression

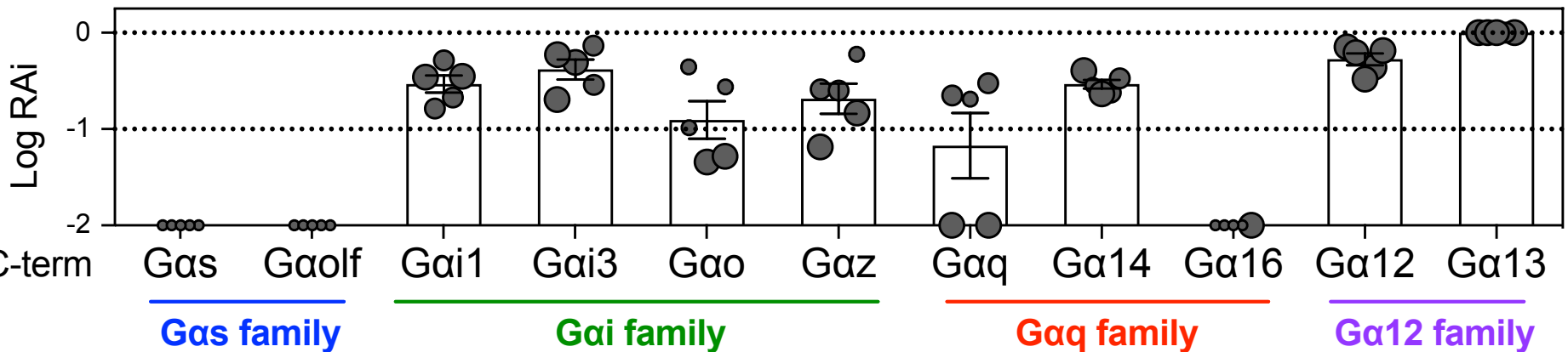
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY11*

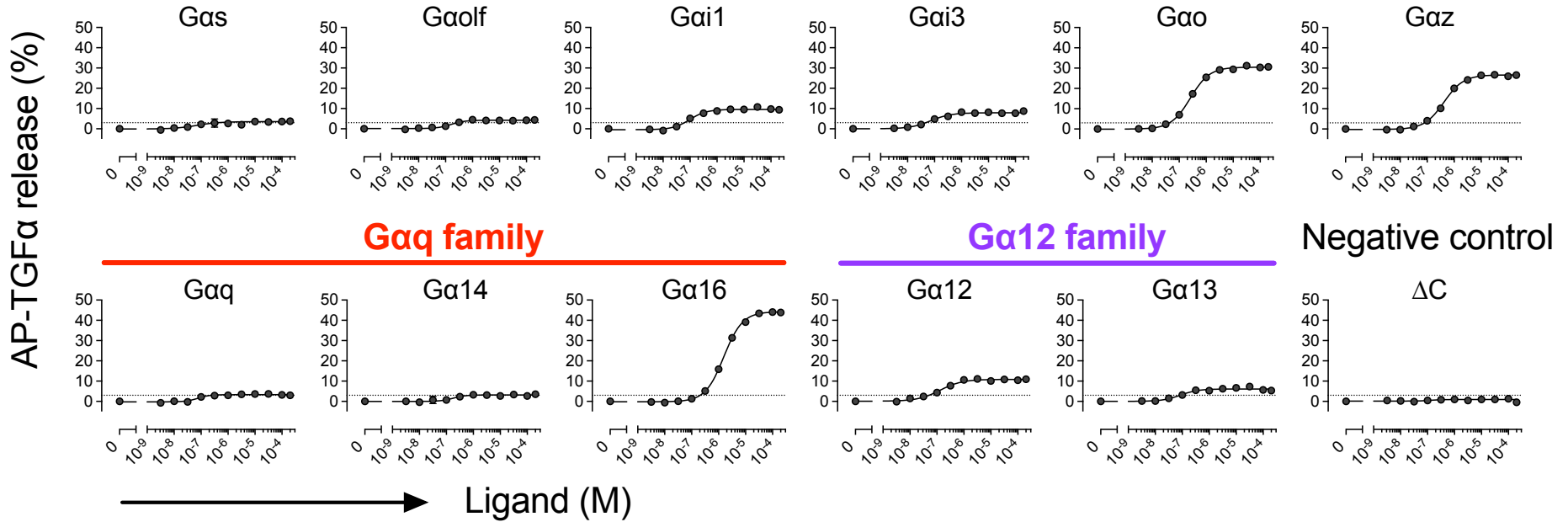
GPCR name: P2Y11

Tested ligand: ATP

C-terminal chimera co-expression

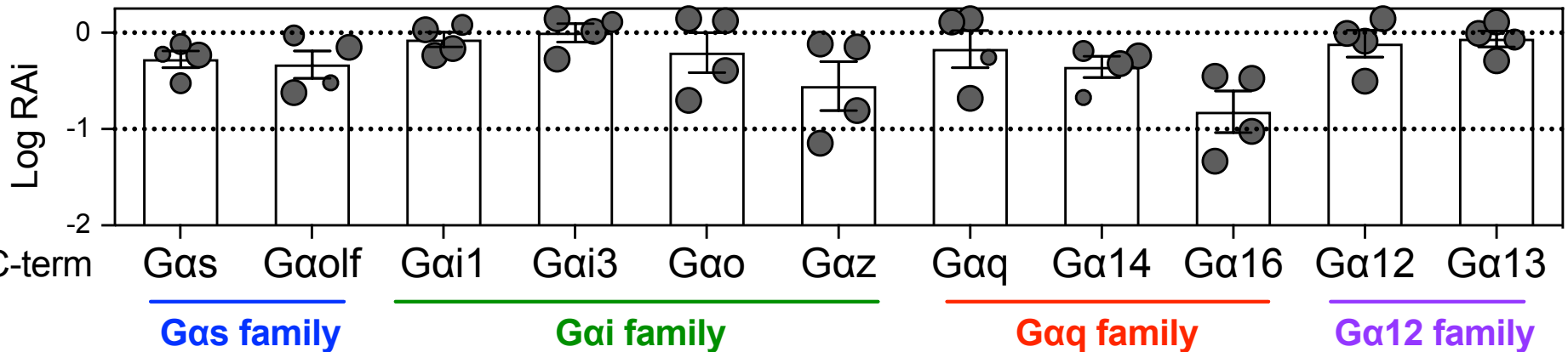
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY12*

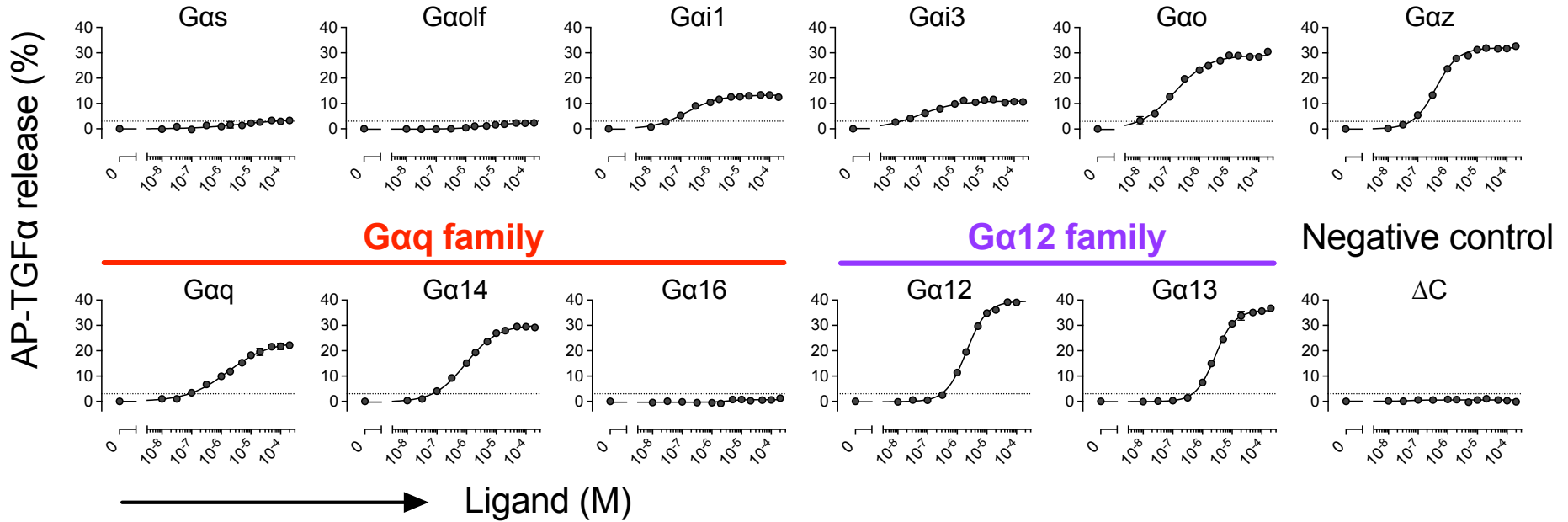
GPCR name: P2Y12

Tested ligand: ADP

C-terminal chimera co-expression

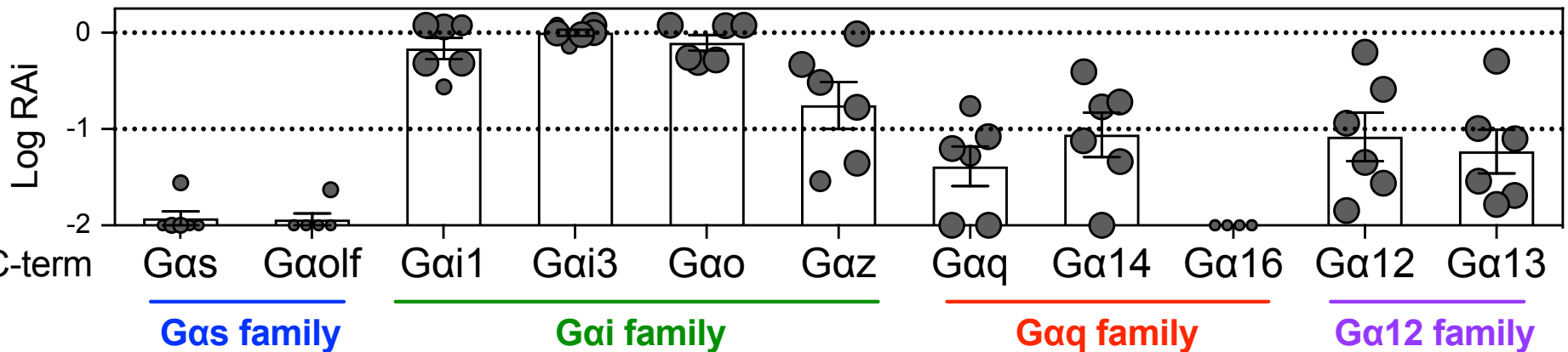
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY13*

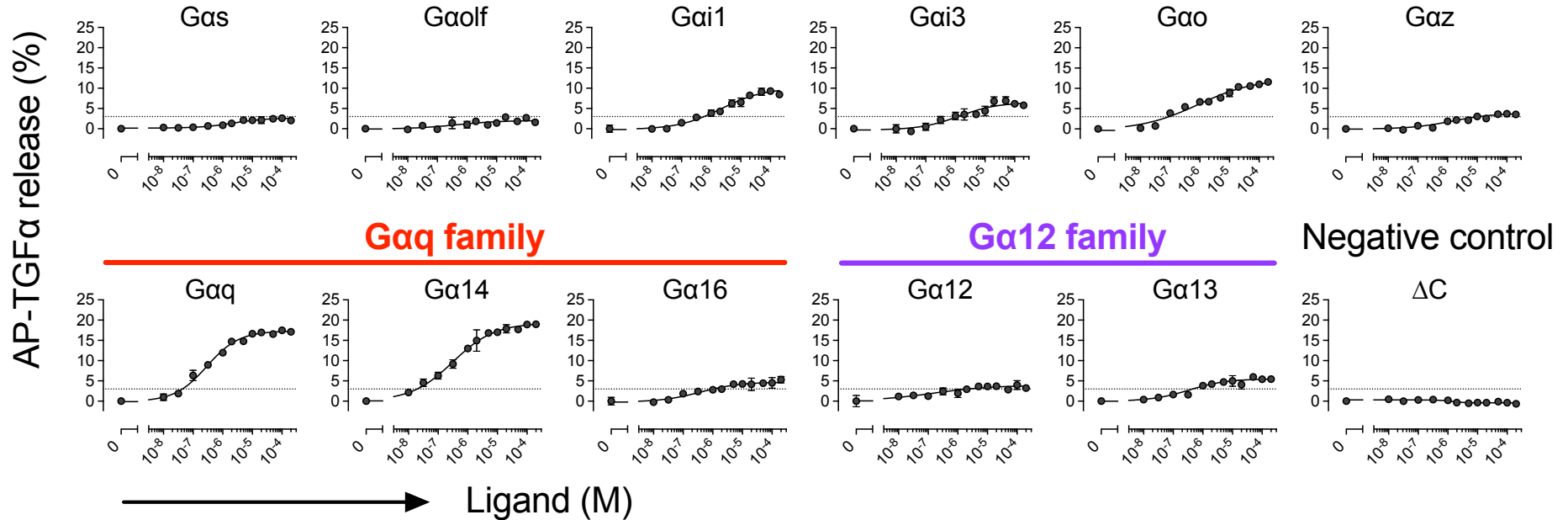
GPCR name: P2Y13

Tested ligand: ADP

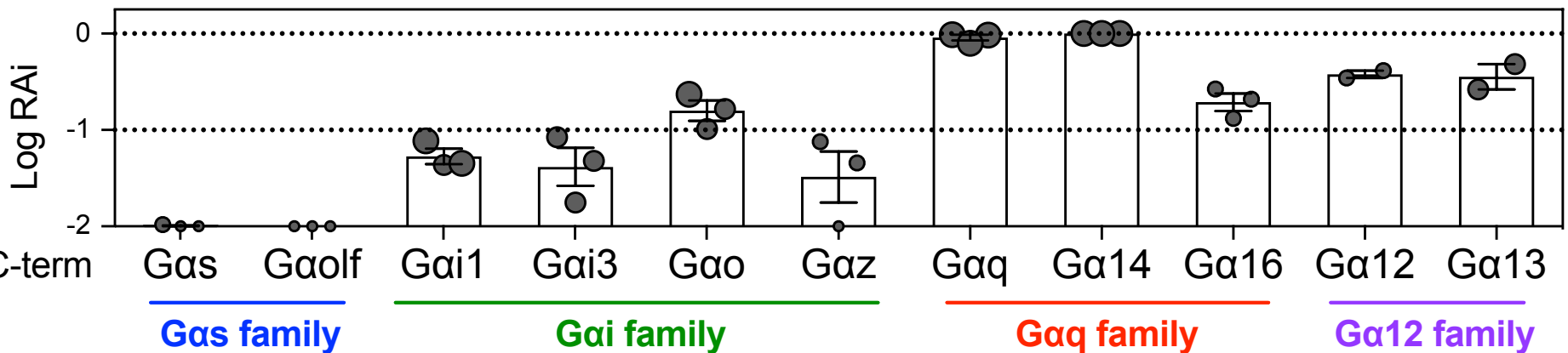
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY14*

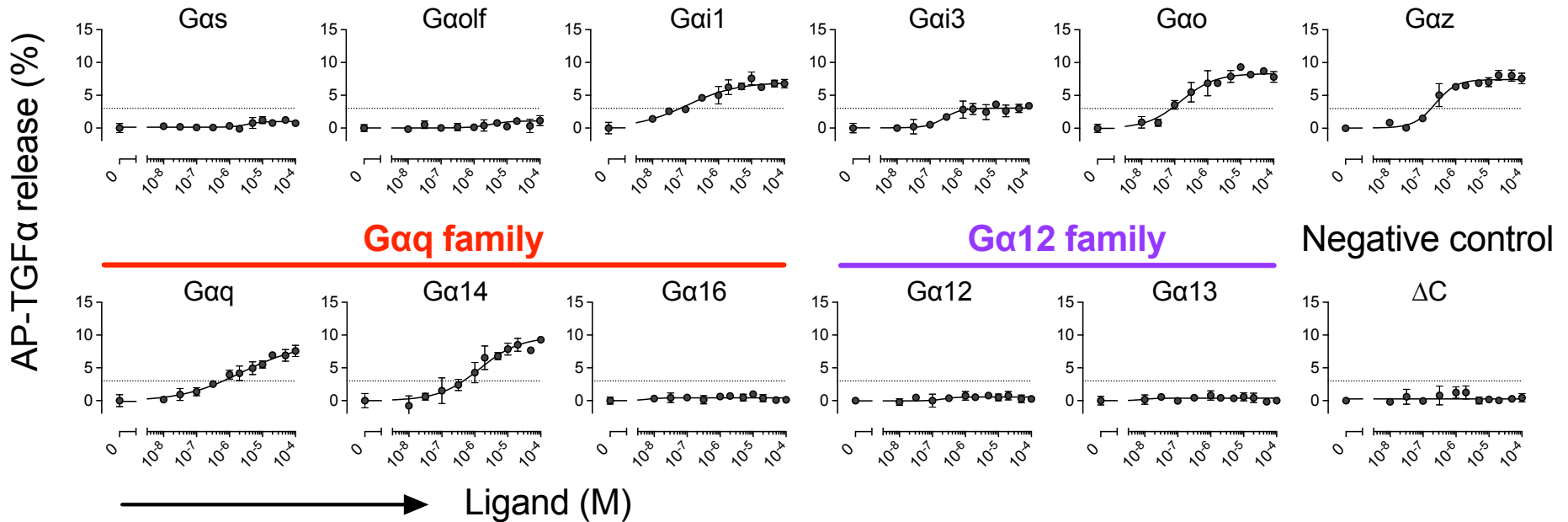
GPCR name: P2Y14

Tested ligand: UDP-Glucose

C-terminal chimera co-expression

Gas family

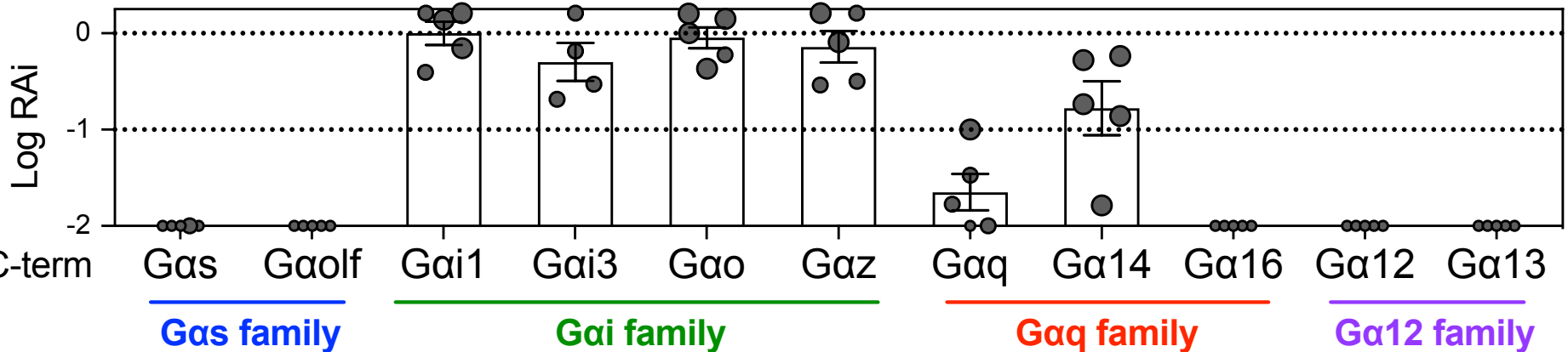
Gai family



Ligand (M)

E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *P2RY2*

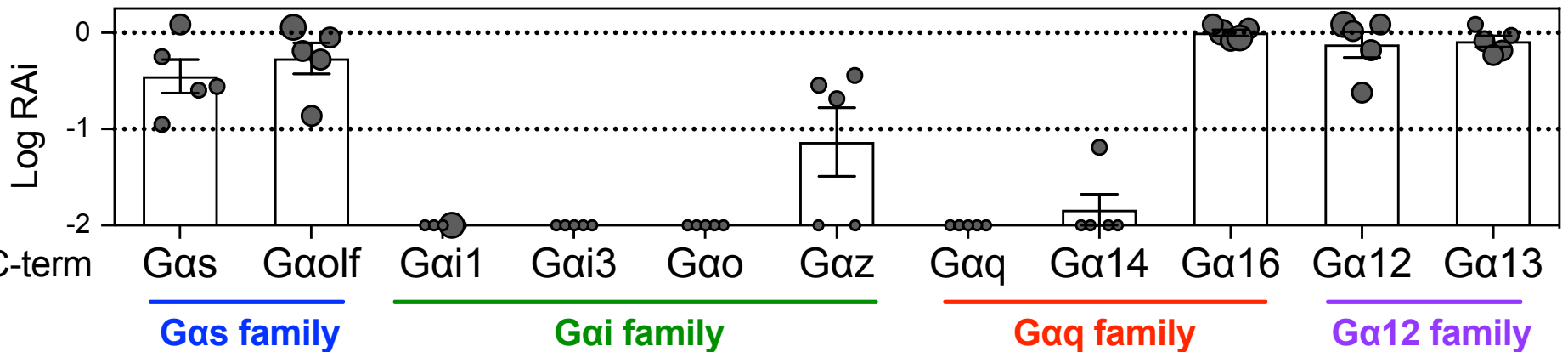
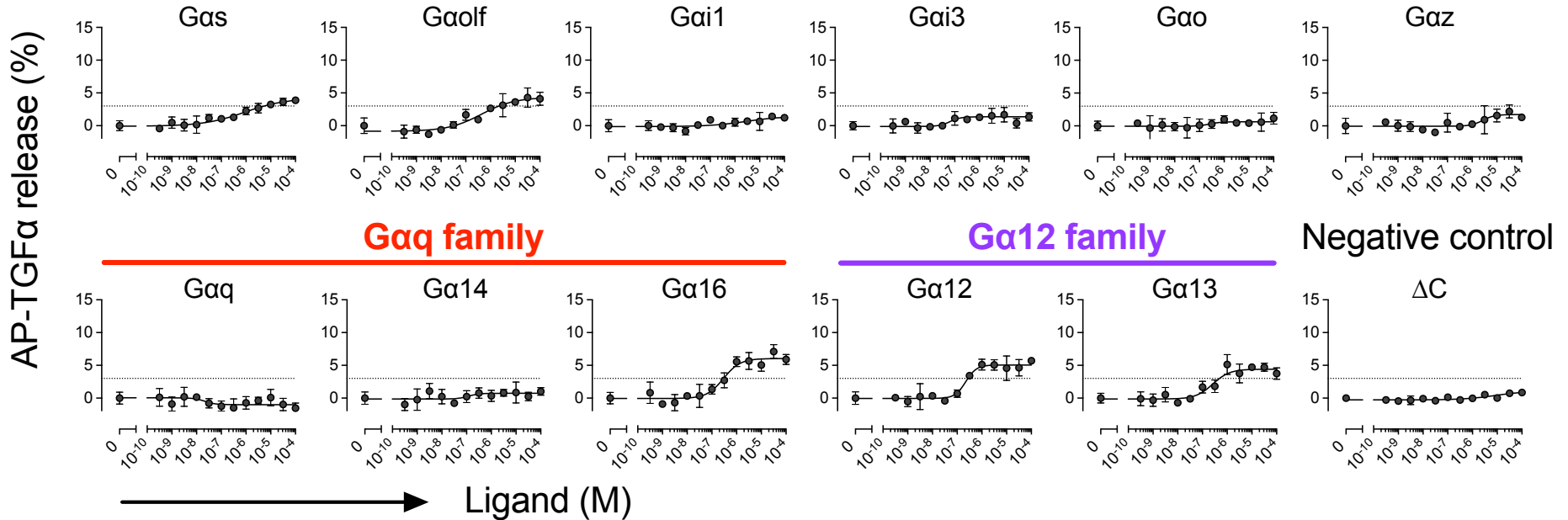
GPCR name: P2Y2

Tested ligand: ATP

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *P2RY4*

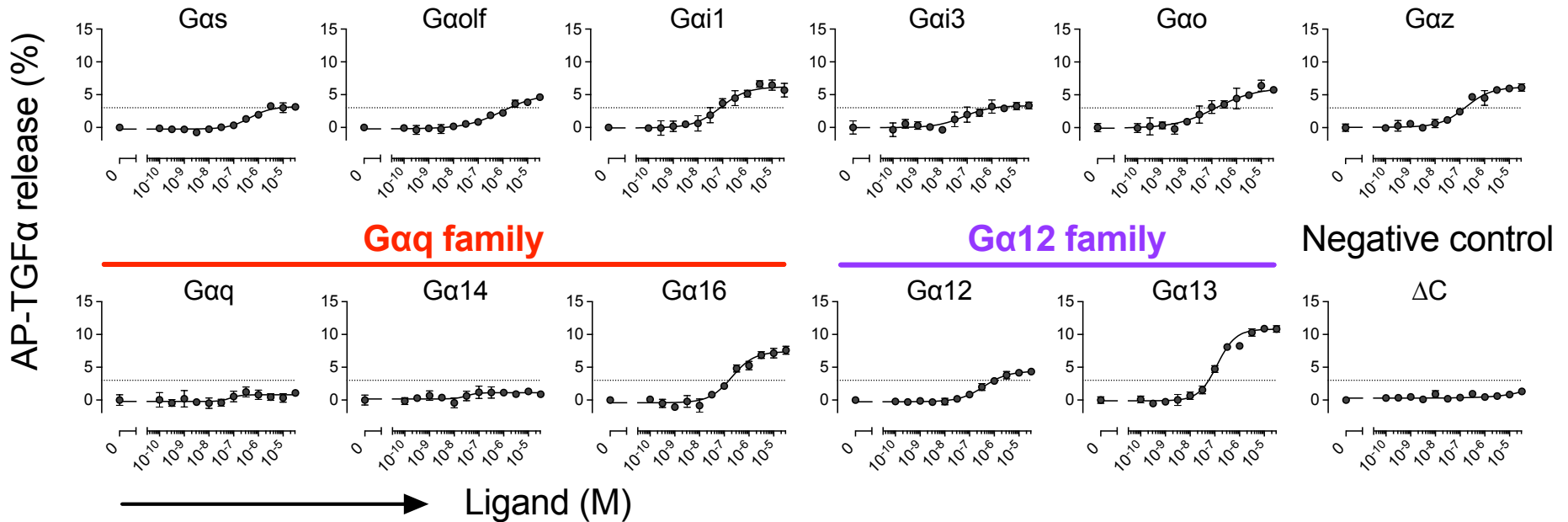
GPCR name: P2Y4

Tested ligand: UTP

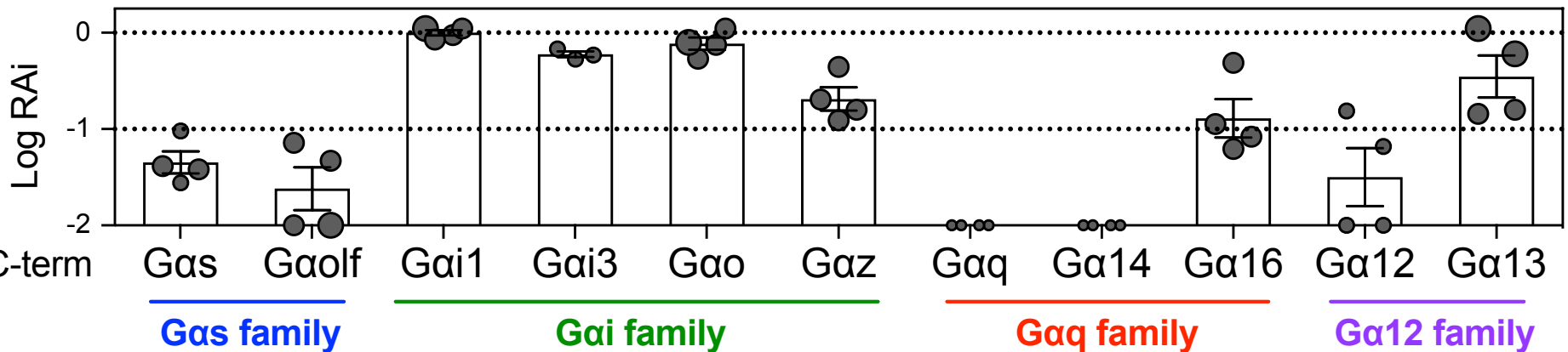
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



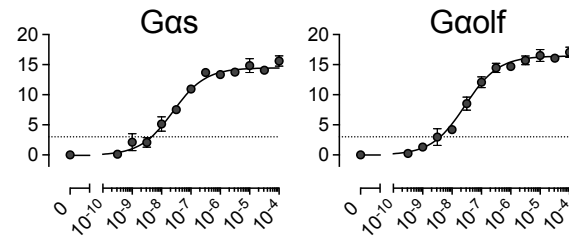
GPCR gene symbol: *P2RY6*

GPCR name: P2Y6

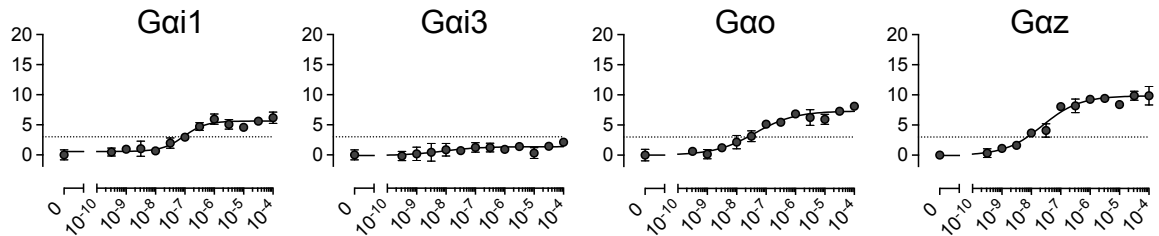
Tested ligand: UDP

C-terminal chimera co-expression

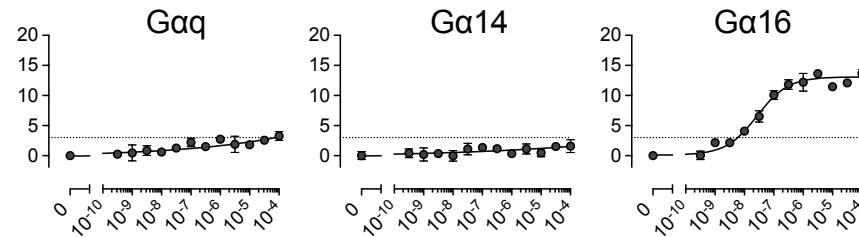
Gas family



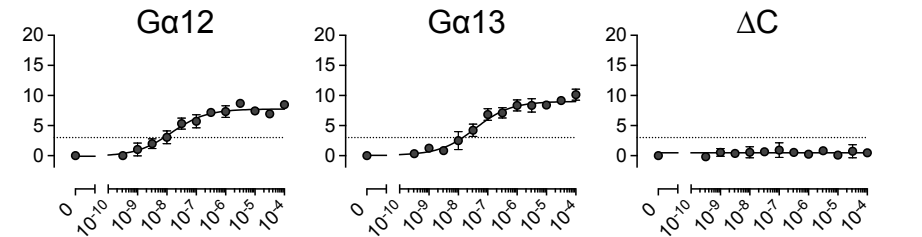
Gai family



Gaq family



G α 12 family



AP-TGF α release (%)

Ligand (M)

E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%

Log RAI

C-term Gas Gaolf Gai1 Gai3 Gao Gaz Gaq G α 14 G α 16 G α 12 G α 13

Gas family

Gai family

Gaq family

G α 12 family

GPCR gene symbol: *PRLHR*

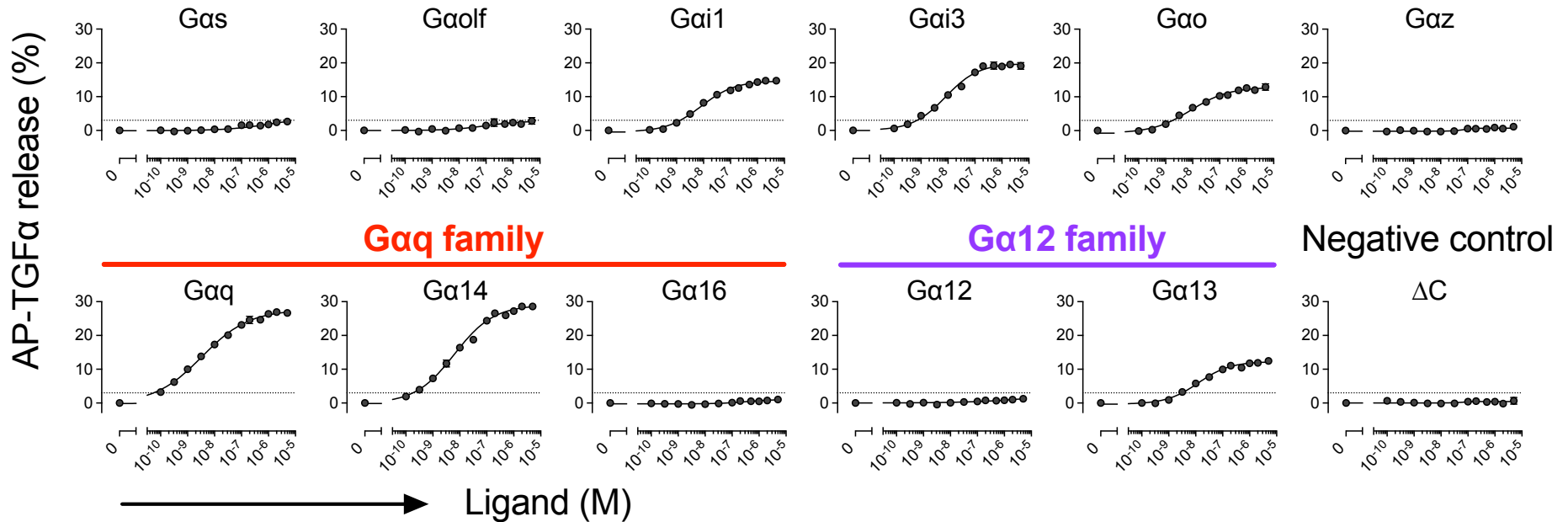
GPCR name: PRLHR

Tested ligand: Prolactin-releasing peptide-20 (PrRP-20)

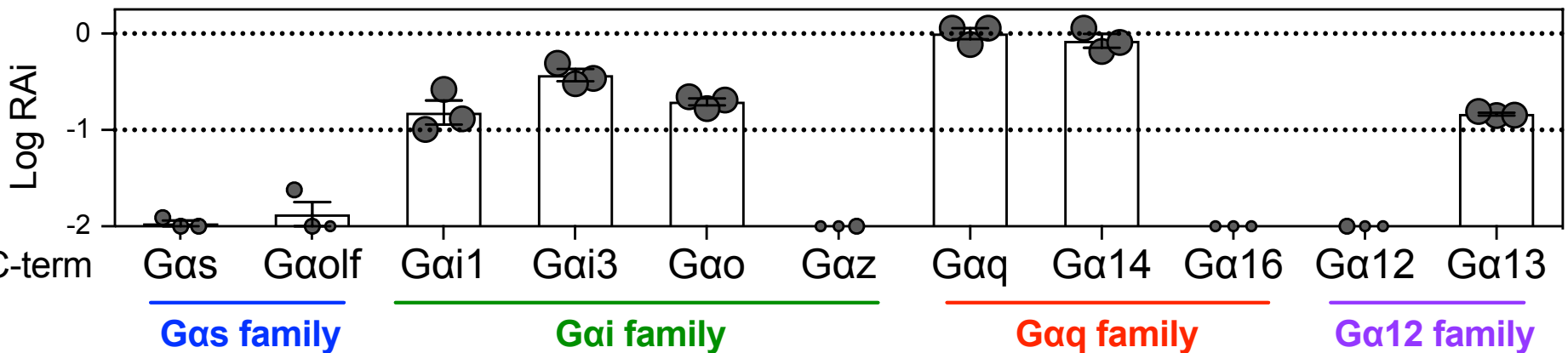
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *PTAFR*

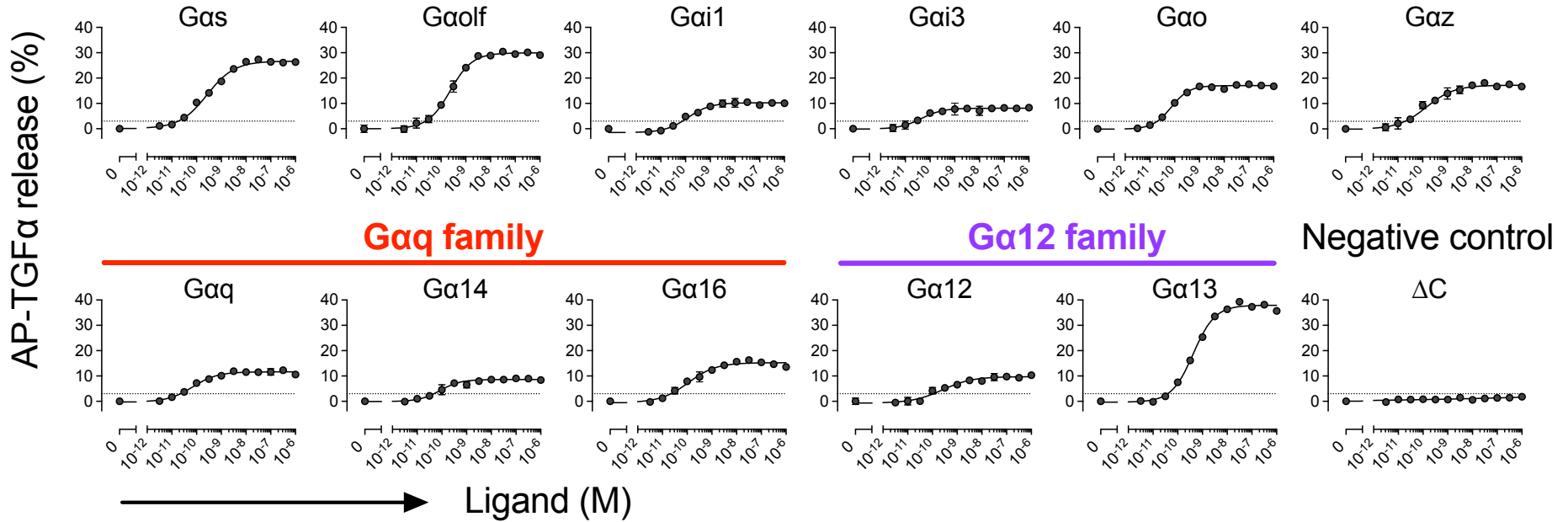
GPCR name: PAFR

Tested ligand: Platelet-activating factor (PAF)

C-terminal chimera co-expression

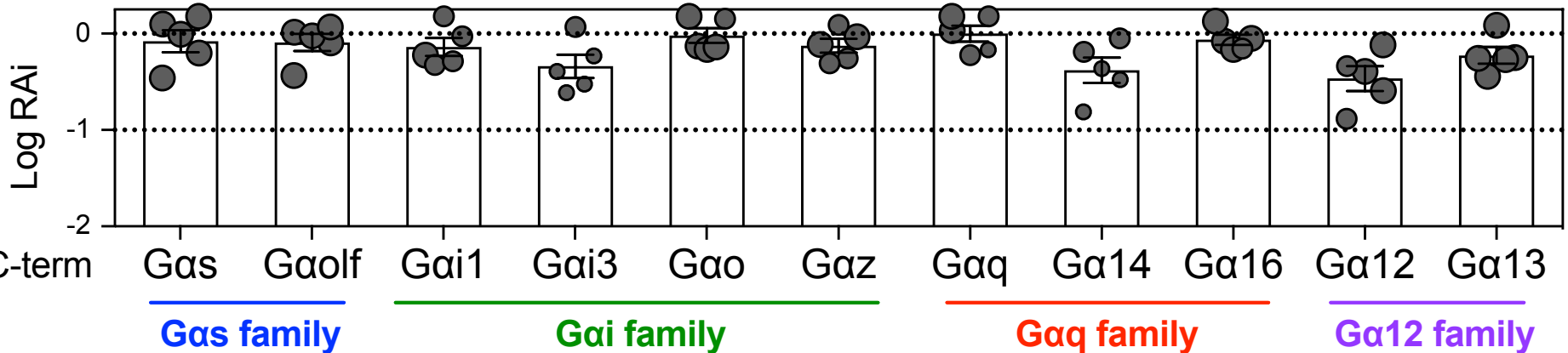
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%

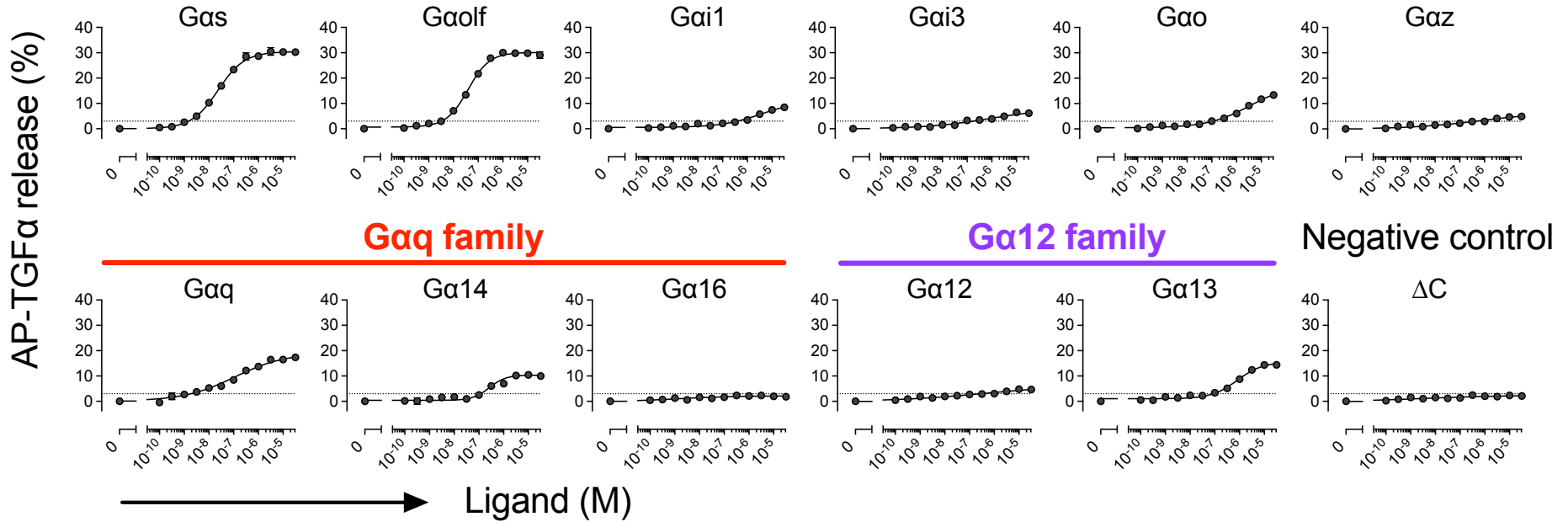


GPCR gene symbol: *PTGDR*
 GPCR name: DP
 Tested ligand: Prostaglandin D2

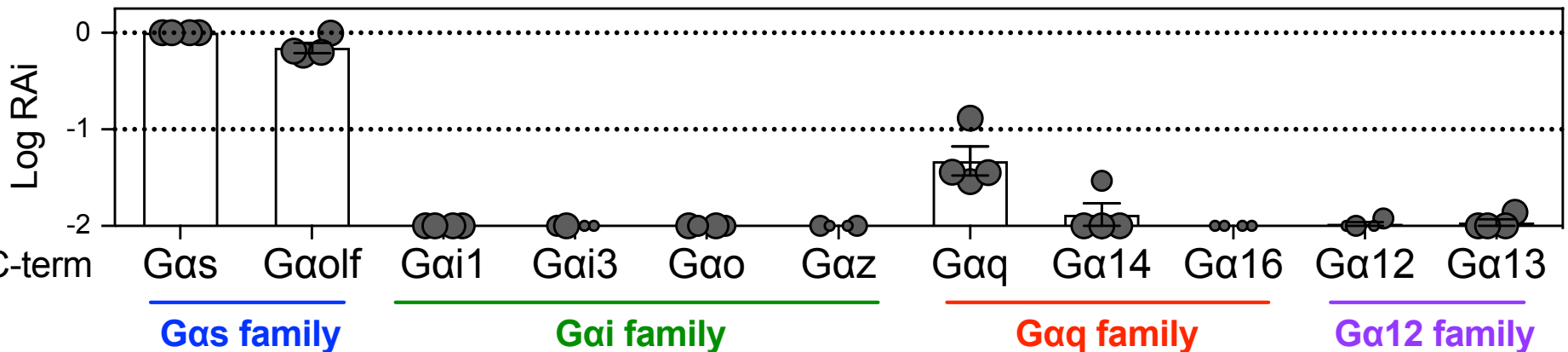
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *PTGER1*

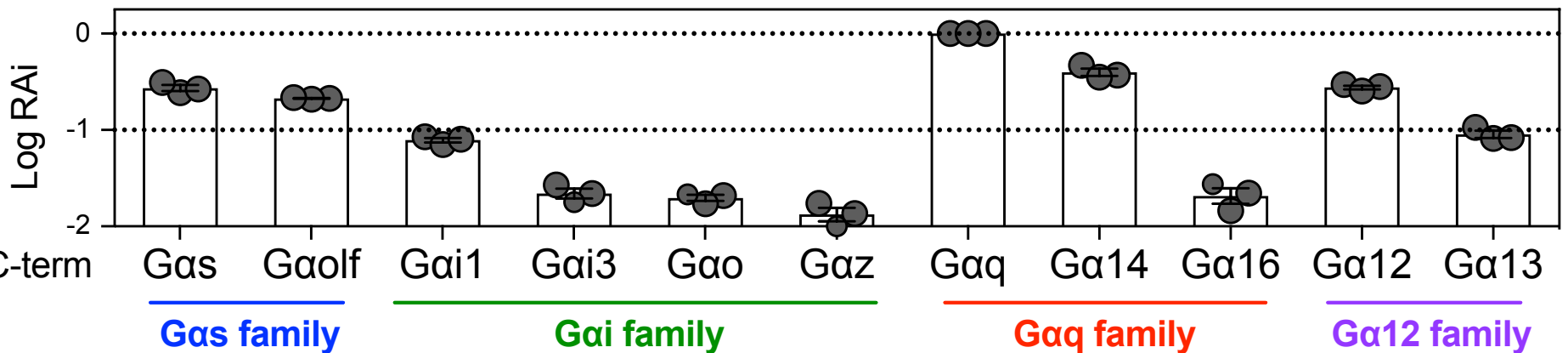
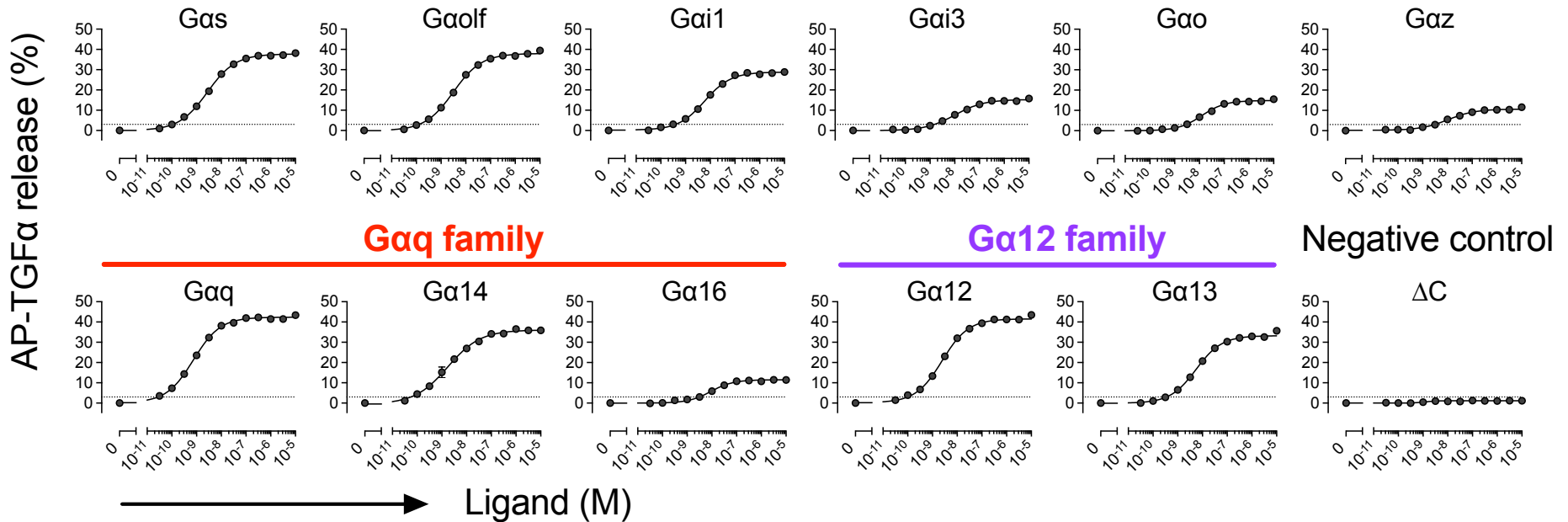
GPCR name: EP1

Tested ligand: Prostaglandin E2

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *PTGER1*

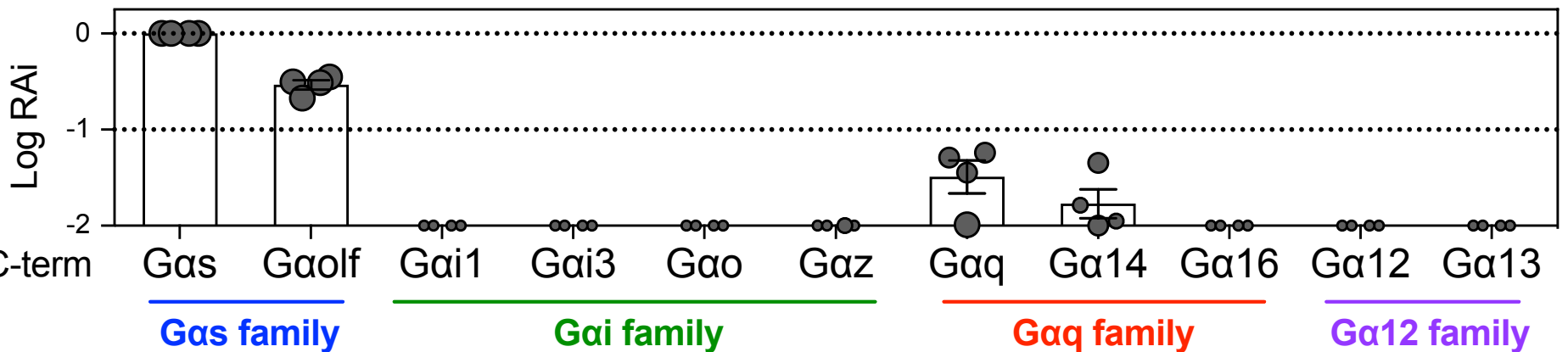
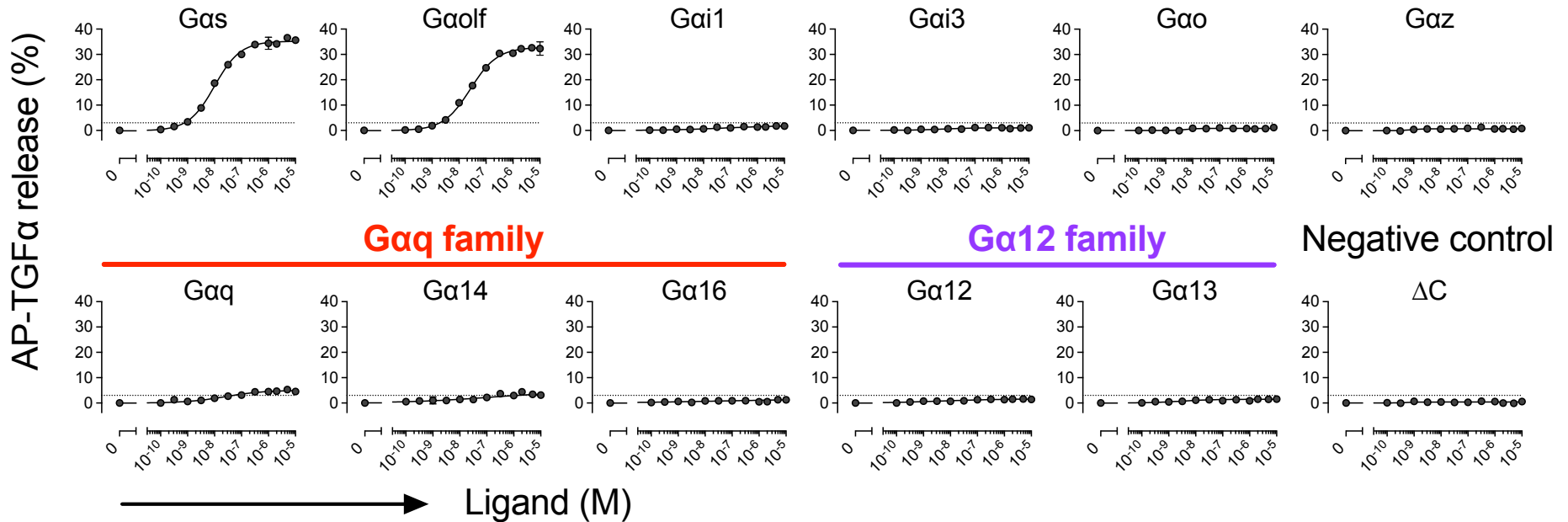
GPCR name: EP1

Tested ligand: Prostaglandin E2

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *PTGER3*

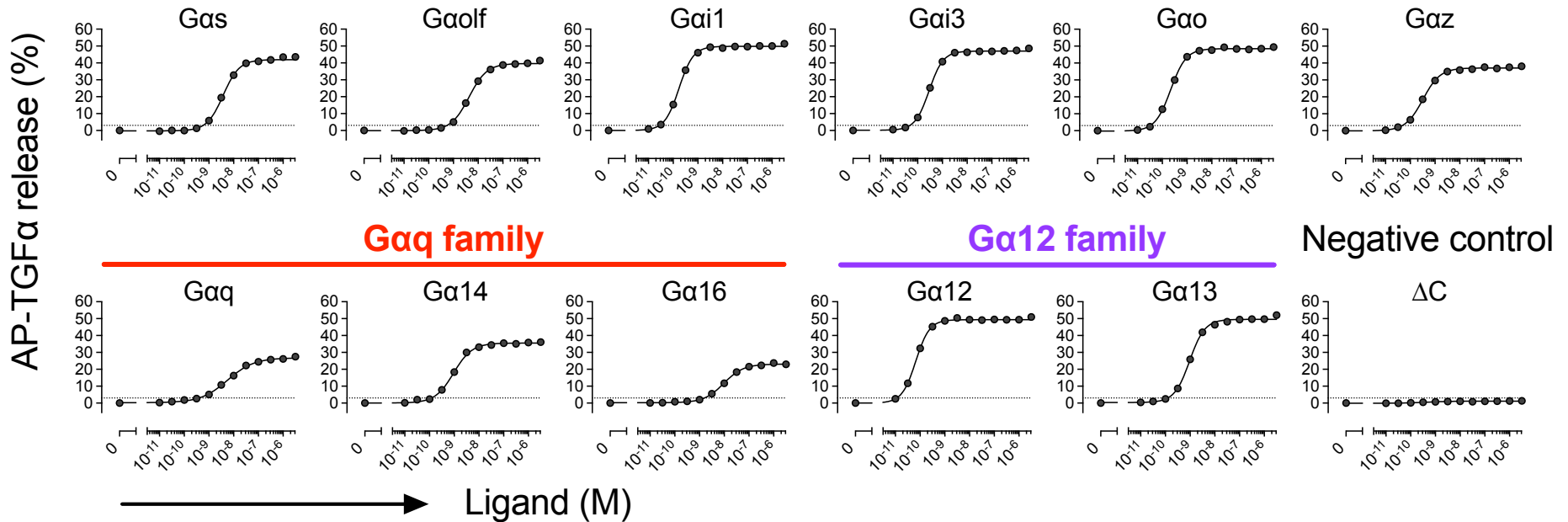
GPCR name: EP3

Tested ligand: Prostaglandin E2

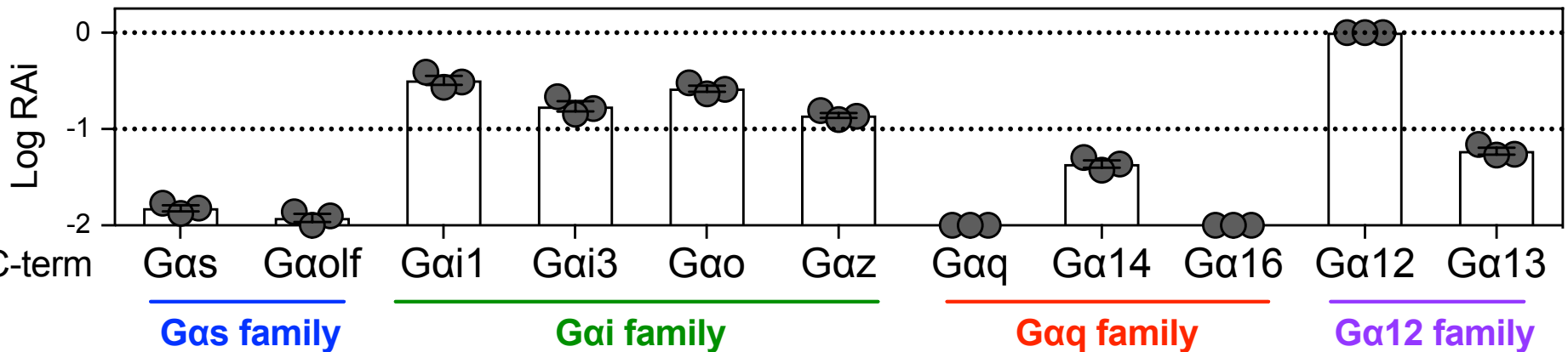
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *PTGER4*

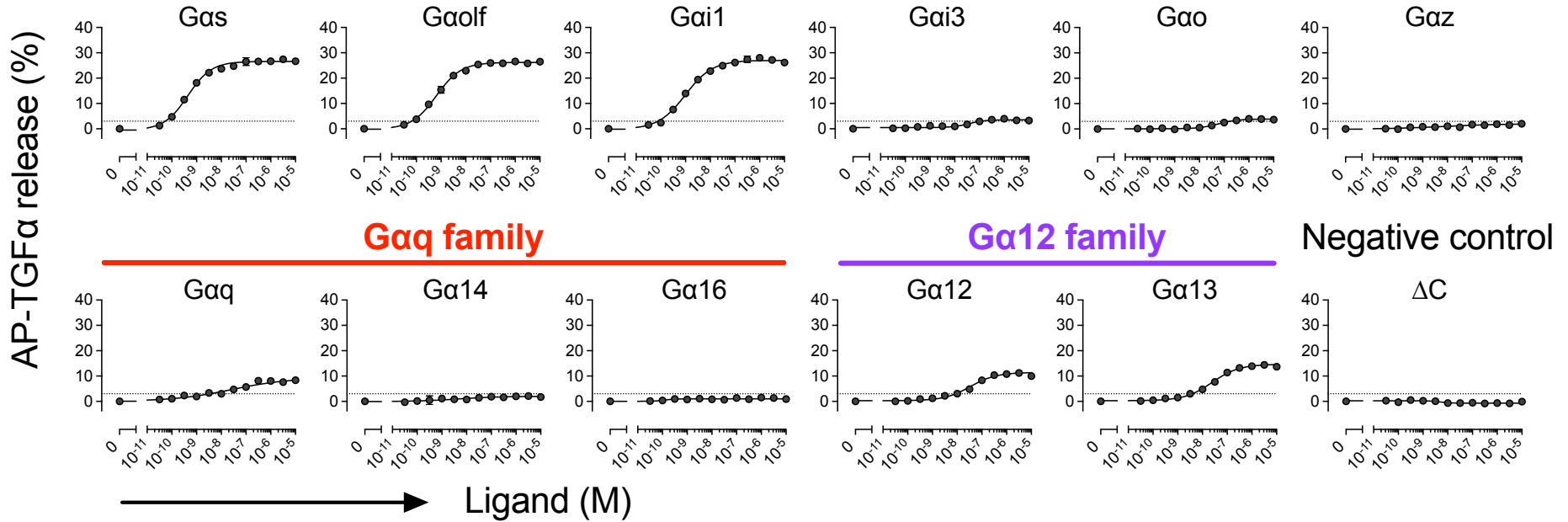
GPCR name: EP4

Tested ligand: Prostaglandin E2

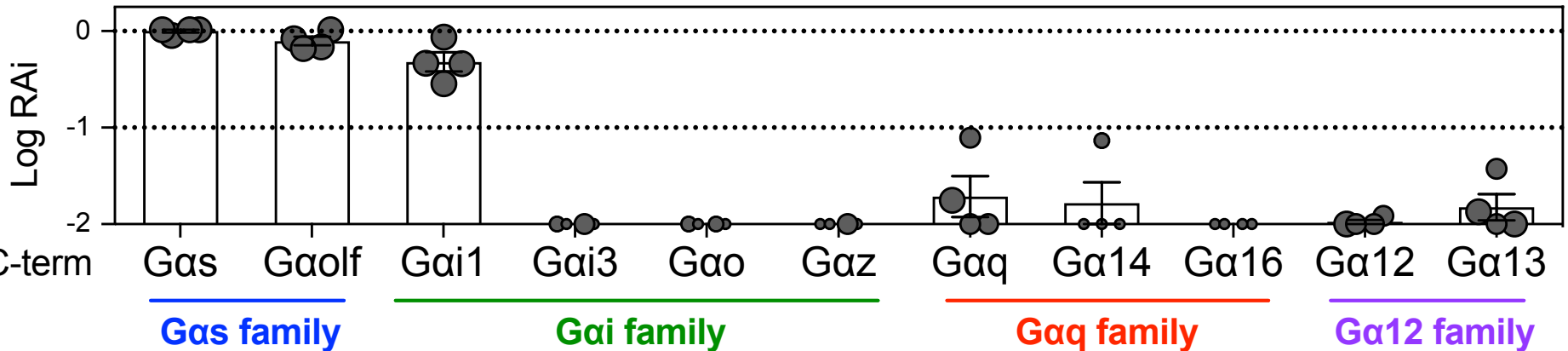
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) • <3% • 3-5% • 5-10% • >10%



GPCR gene symbol: *PTGFR*

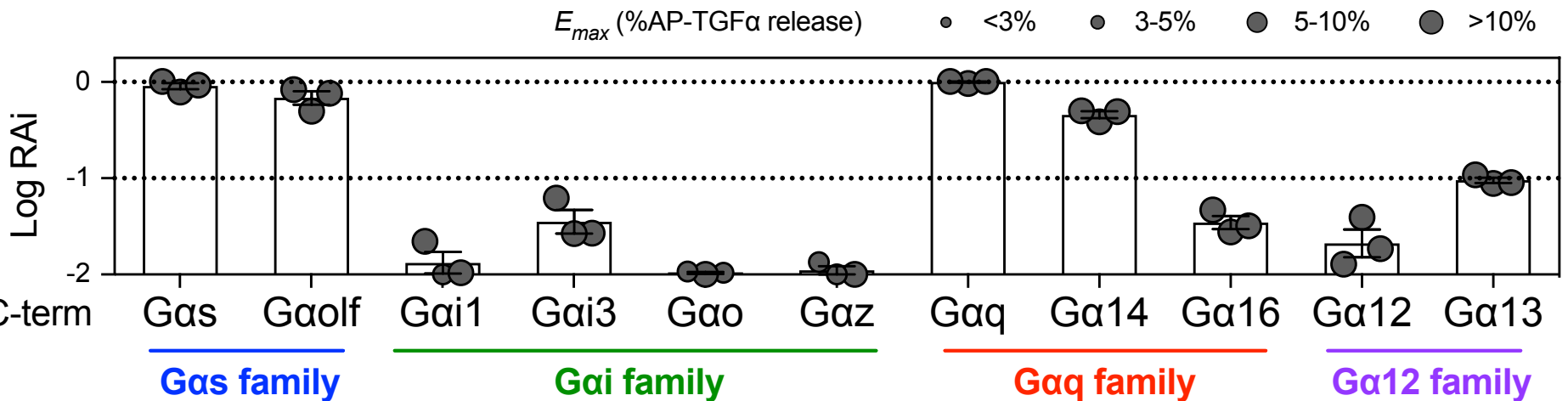
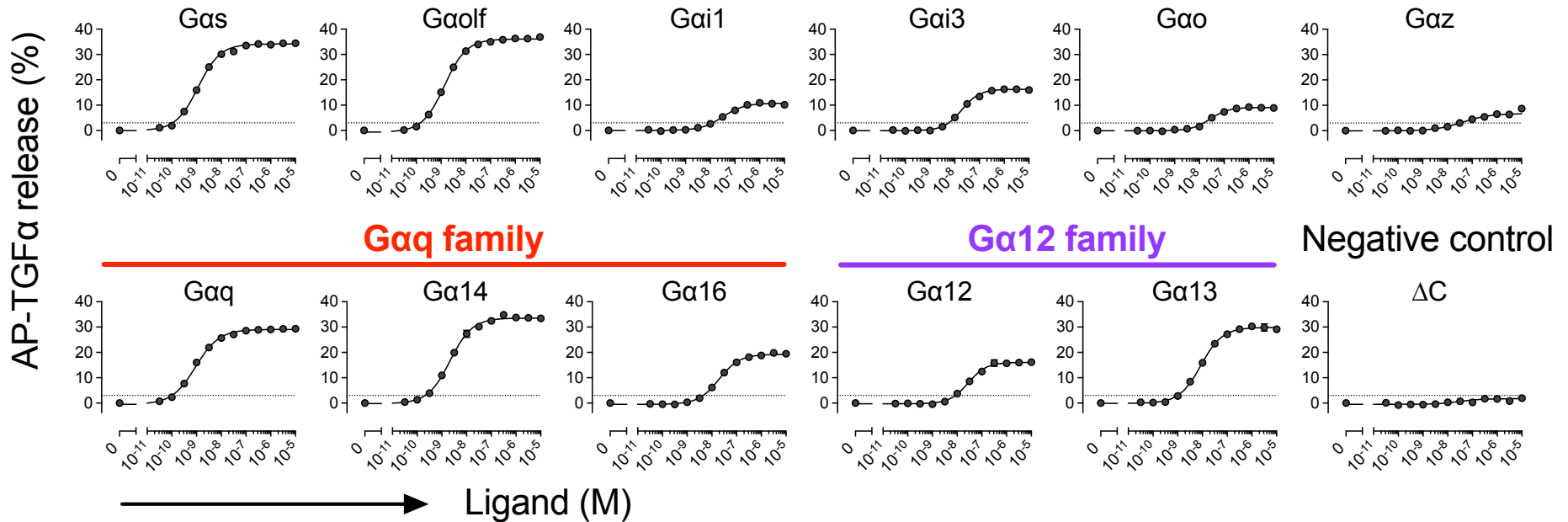
GPCR name: FP

Tested ligand: Prostaglandin F2 α

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *PTGIR*

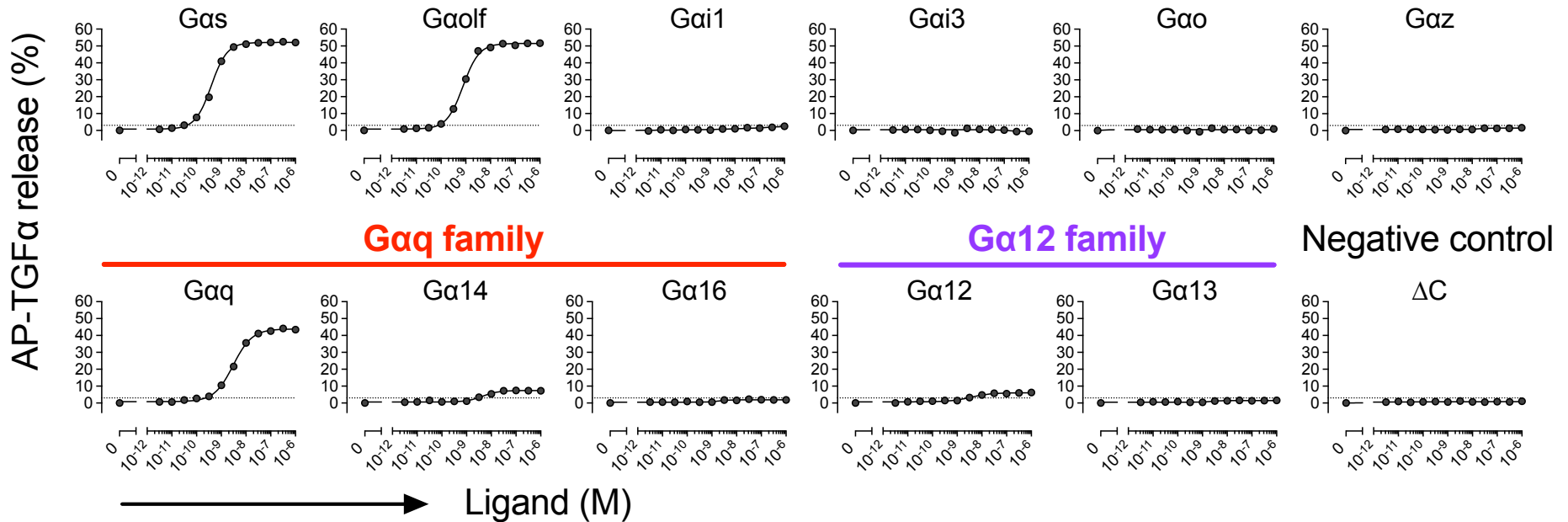
GPCR name: IP

Tested ligand: Iloprost

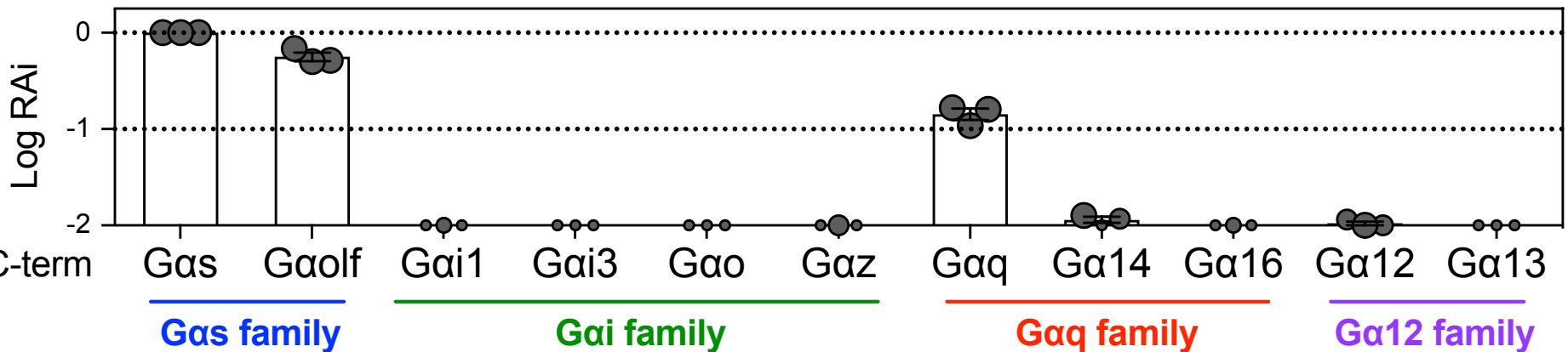
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *PTH1R*

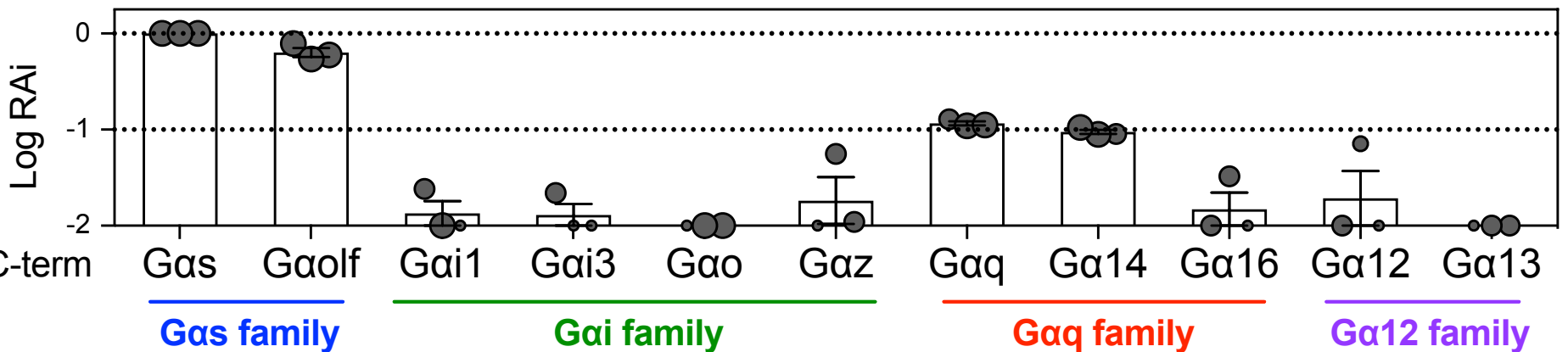
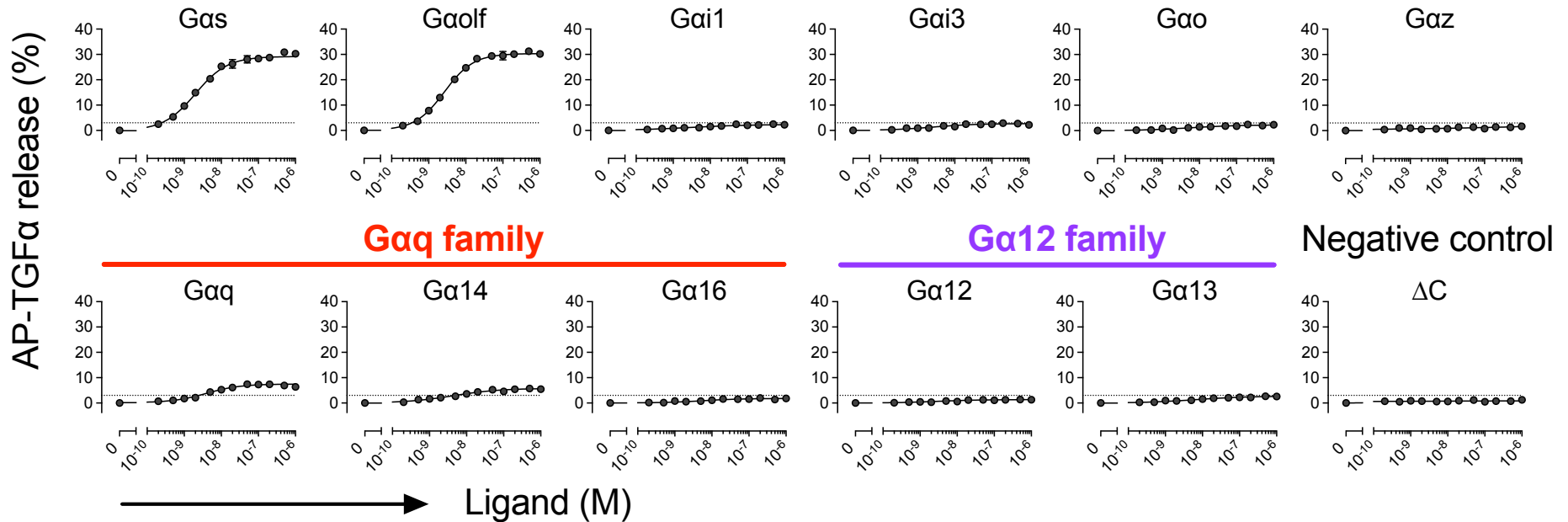
GPCR name: PTH1

Tested ligand: parathyroid hormone (PTH)

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *PTH2R*

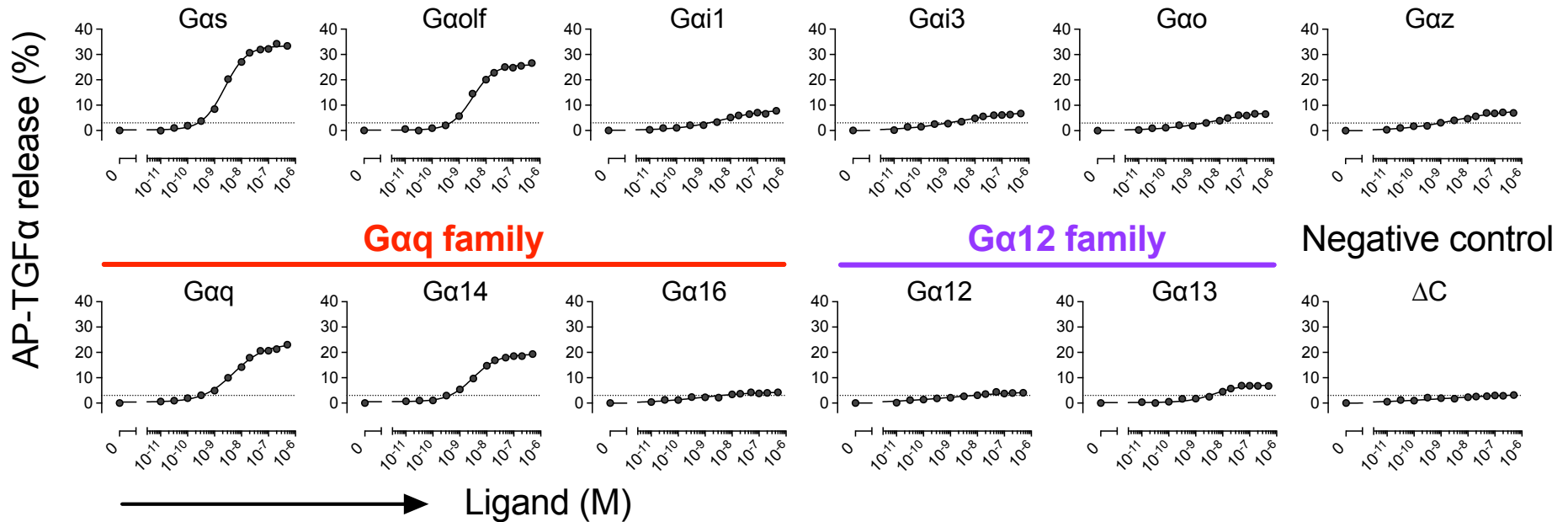
GPCR name: PTH2

Tested ligand: TIP39

C-terminal chimera co-expression

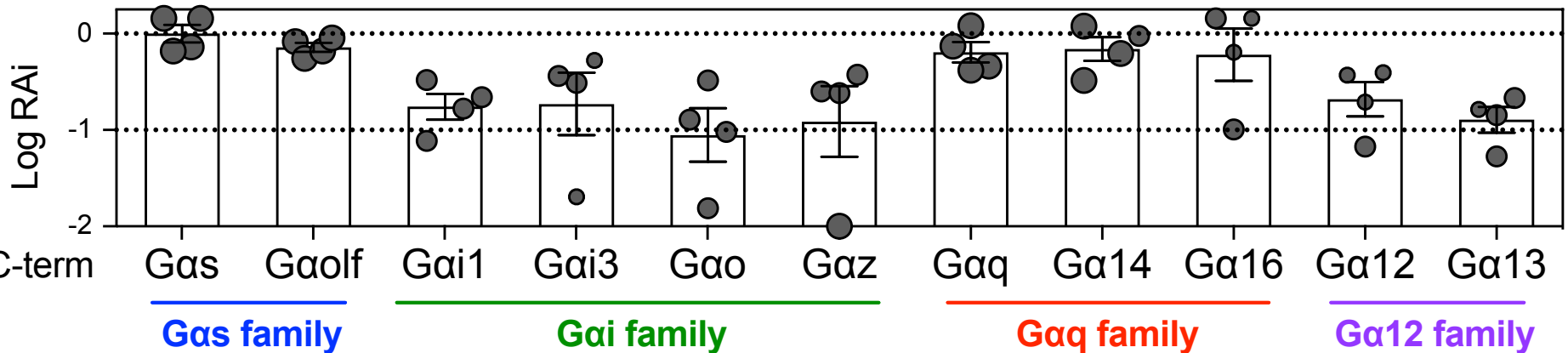
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *S1PR1*

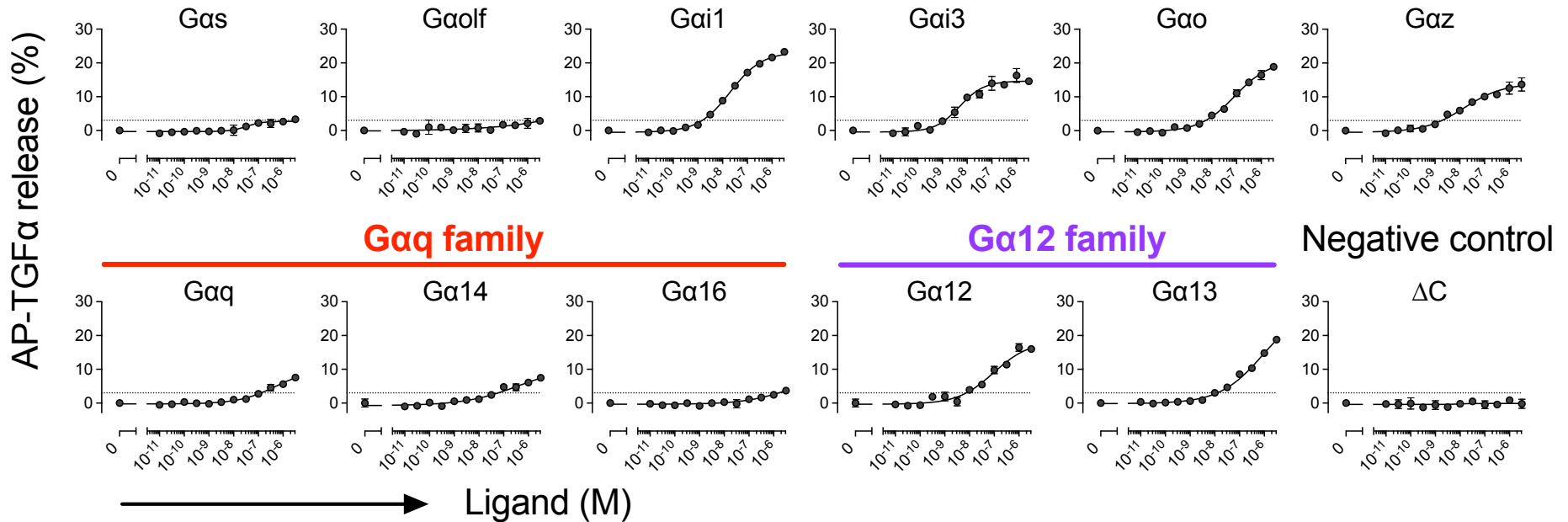
GPCR name: S1P1

Tested ligand: Sphingosine-1-phosphate (+ 10 μ M JTE-013)

C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release)

• <3%

• 3-5%

• 5-10%

• >10%

Log RAI

0

-1

-2

C-term

Gas

Gaolf

Gai1

Gai3

Gao

Gaz

Gaq

G α 14

G α 16

G α 12

G α 13

Gas family

Gai family

Gaq family

G α 12 family

GPCR gene symbol: *S1PR2*

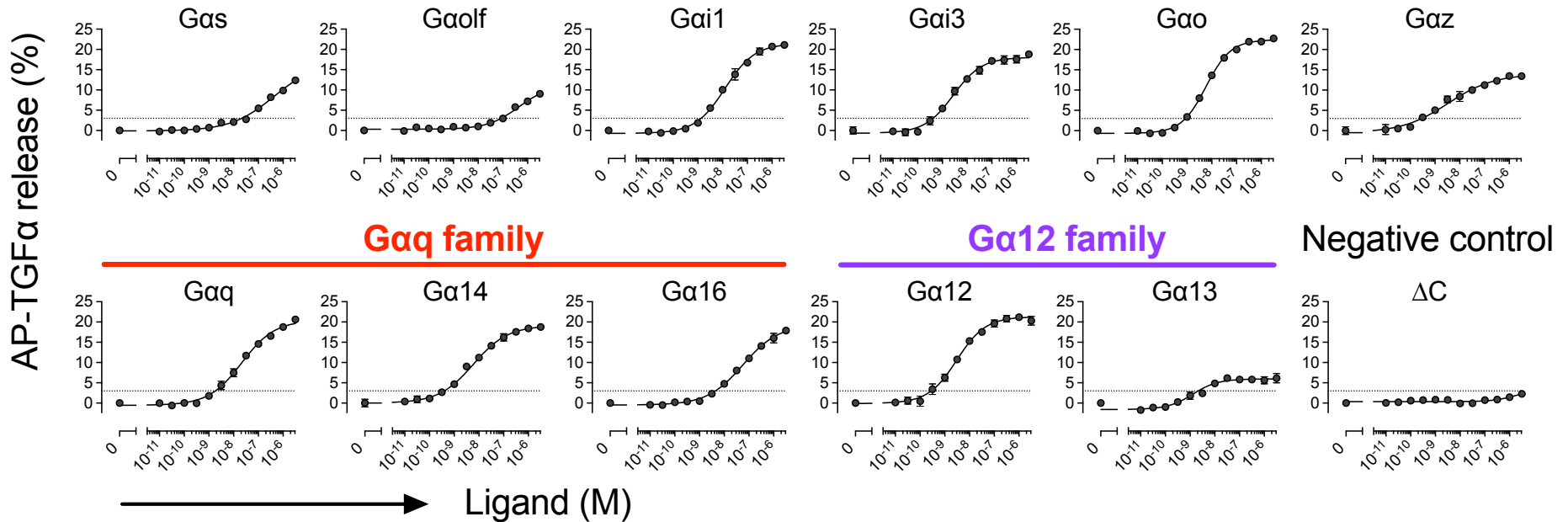
GPCR name: S1P2

Tested ligand: Sphingosine-1-phosphate

C-terminal chimera co-expression

Gas family

Gai family



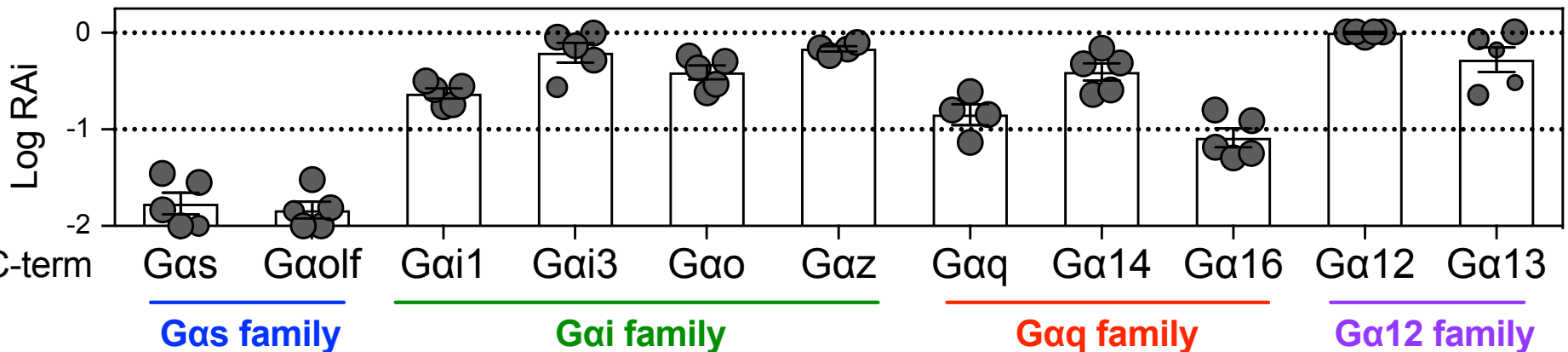
E_{max} (%AP-TGFα release)

● <3%

● 3-5%

● 5-10%

● >10%



GPCR gene symbol: *S1PR3*

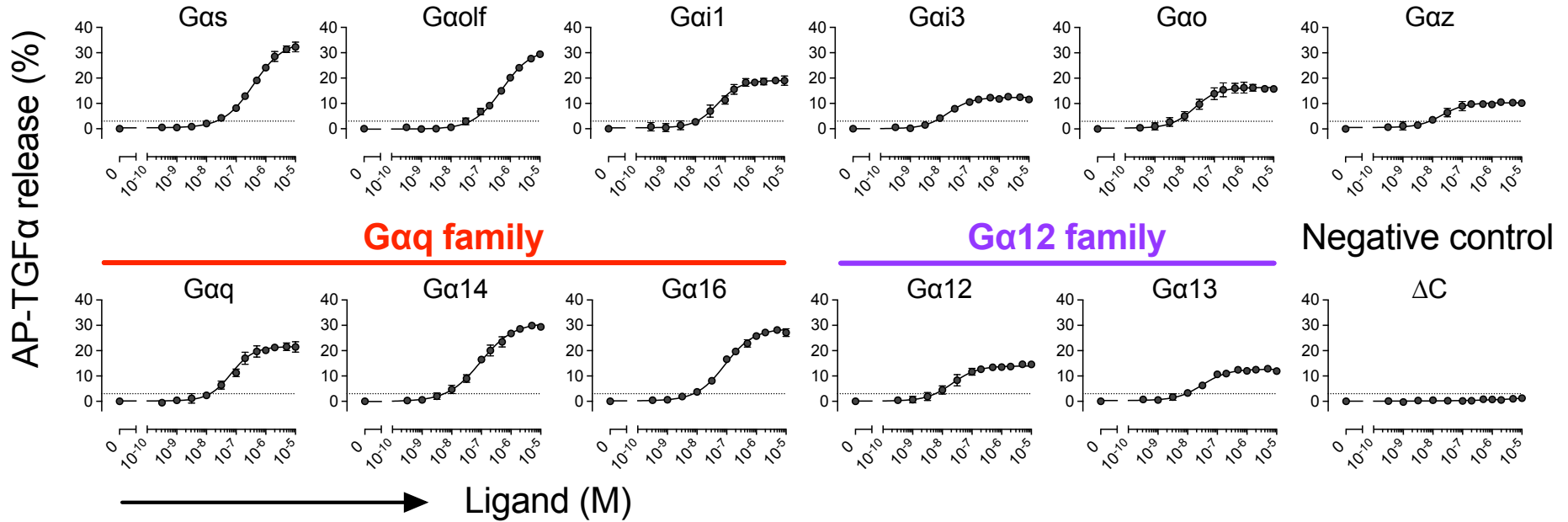
GPCR name: S1P3

Tested ligand: Sphingosine-1-phosphate (+ 10 μ M JTE-013)

C-terminal chimera co-expression

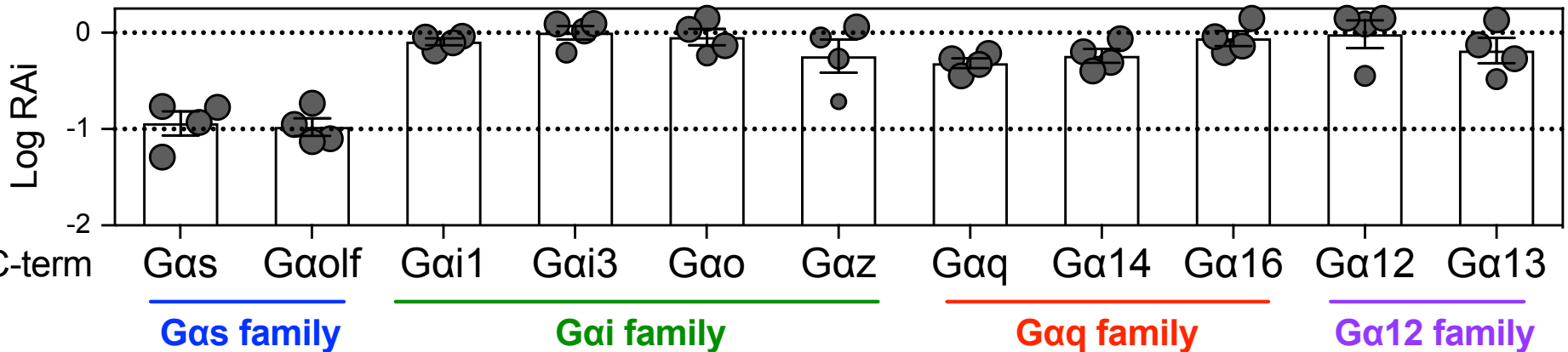
Gas family

Gai family



E_{max} (%AP-TGF α release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *S1PR5*

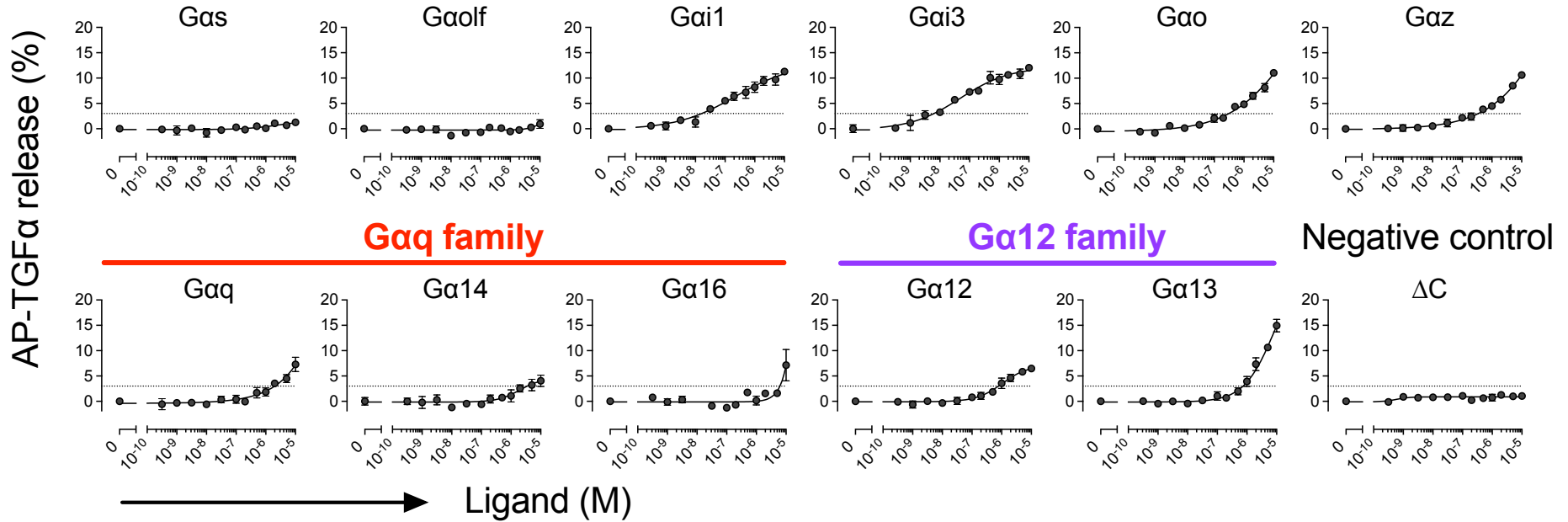
GPCR name: S1P5

Tested ligand: Sphingosine-1-phosphate (+ 10 μ M JTE-013)

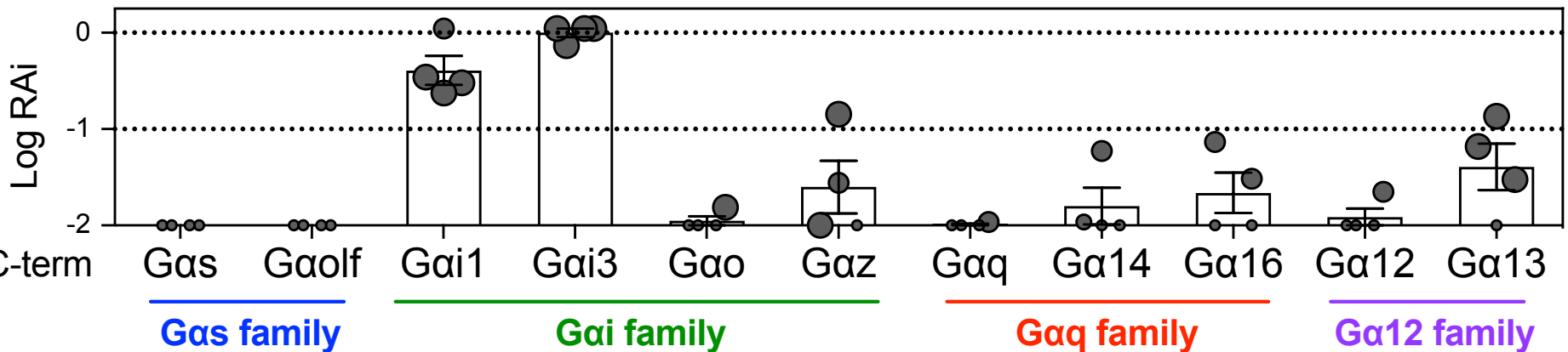
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGF α release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *SSTR1*

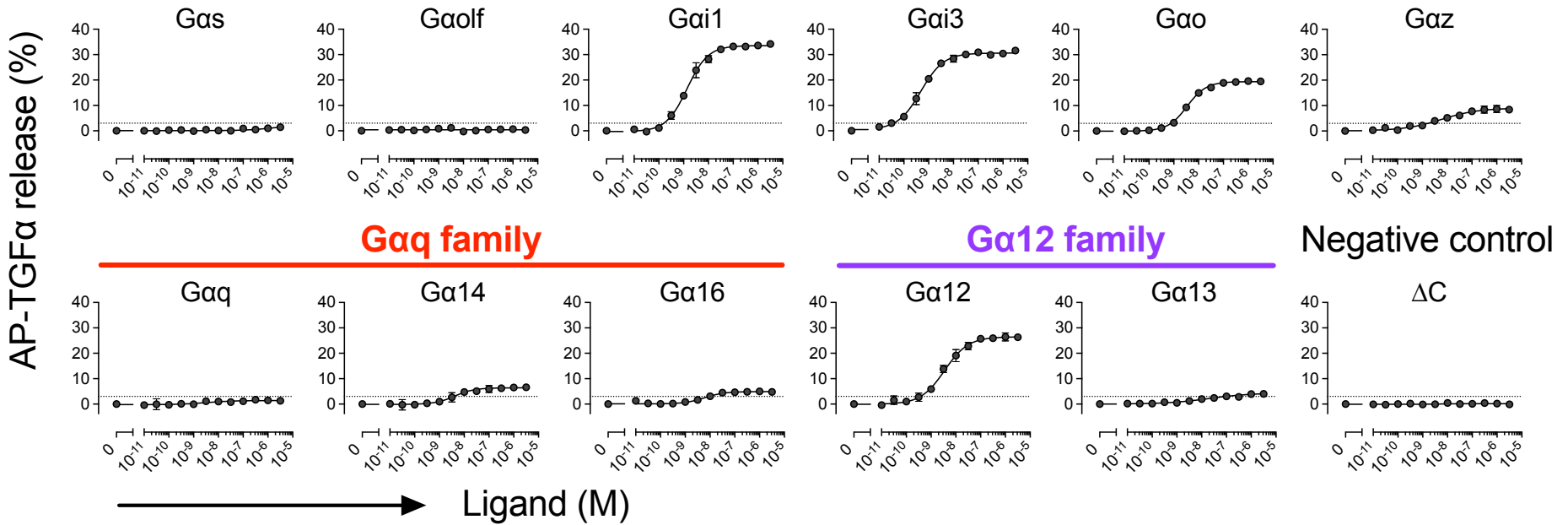
GPCR name: SST1

Tested ligand: Somatostatin

C-terminal chimera co-expression

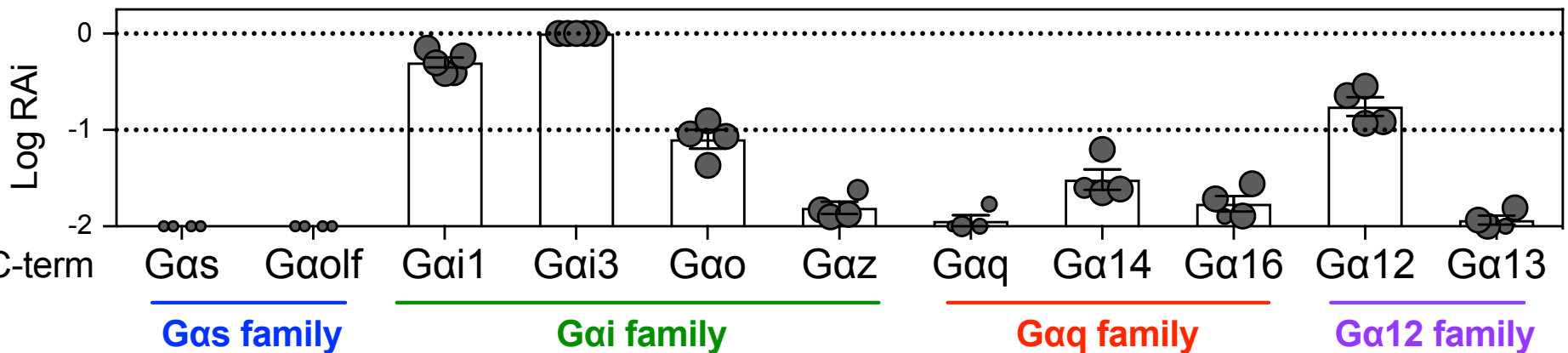
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *SSTR2*

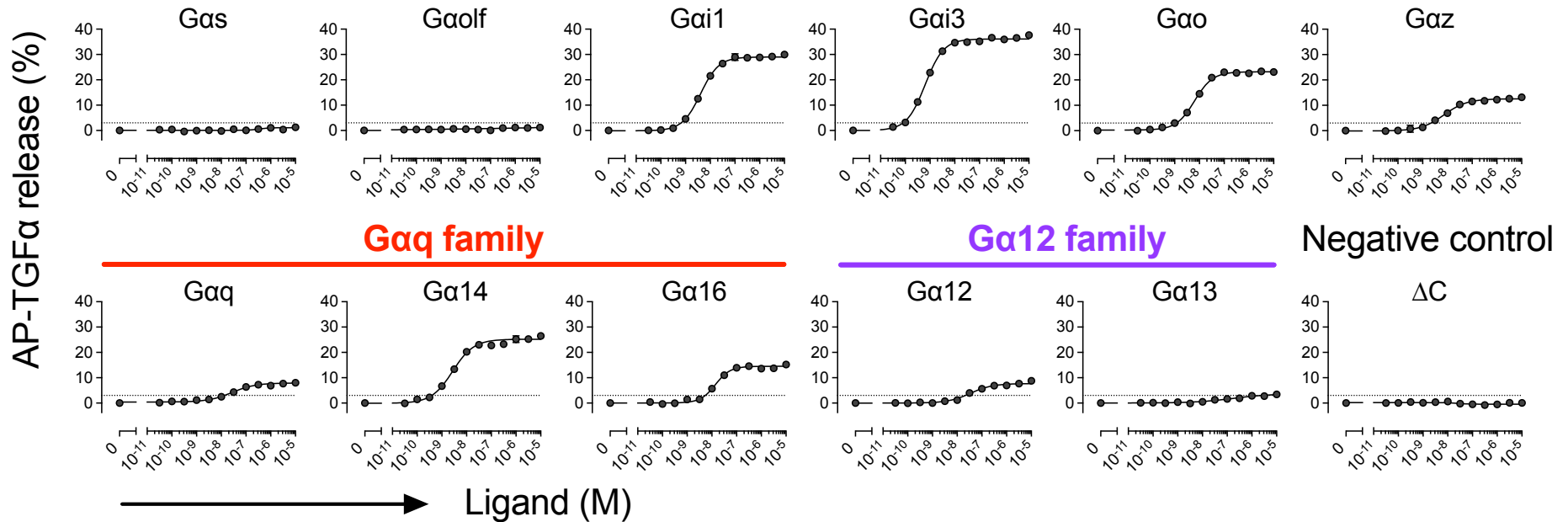
GPCR name: SST2

Tested ligand: Somatostatin

C-terminal chimera co-expression

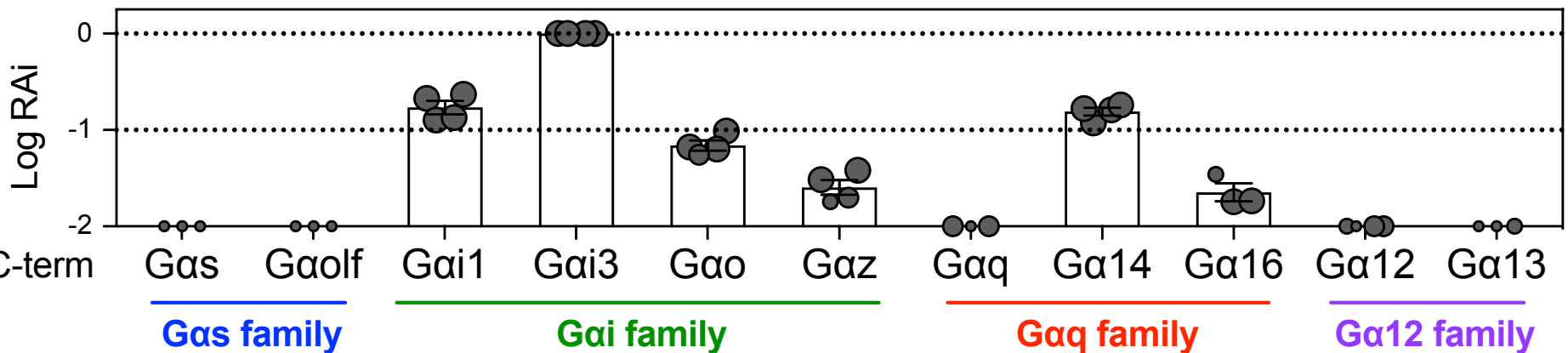
Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *SSTR3*

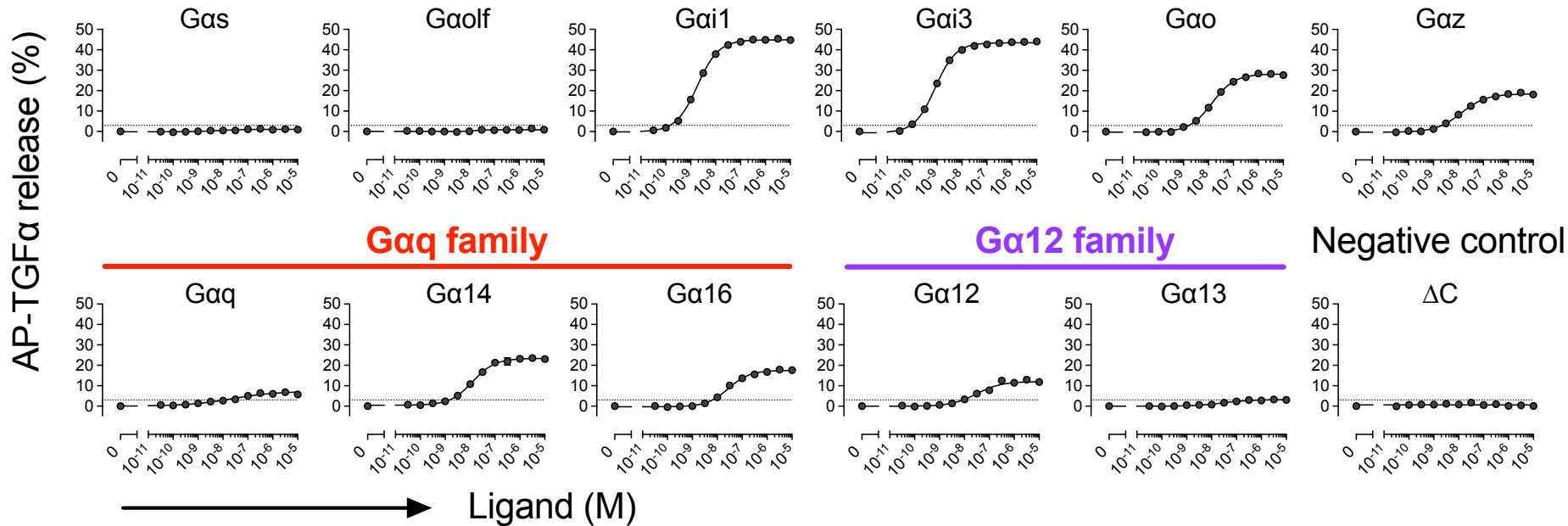
GPCR name: SST3

Tested ligand: Somatostatin

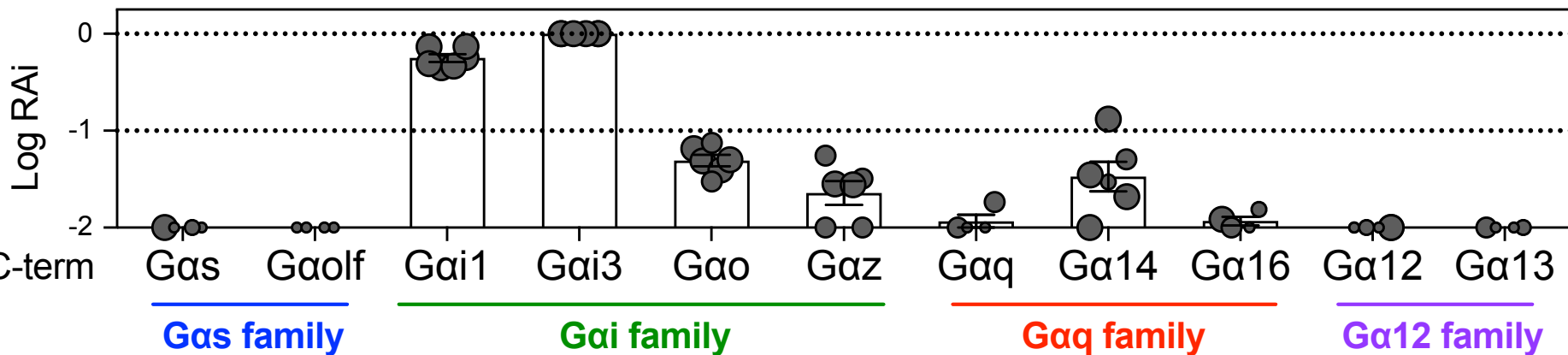
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *SSTR4*

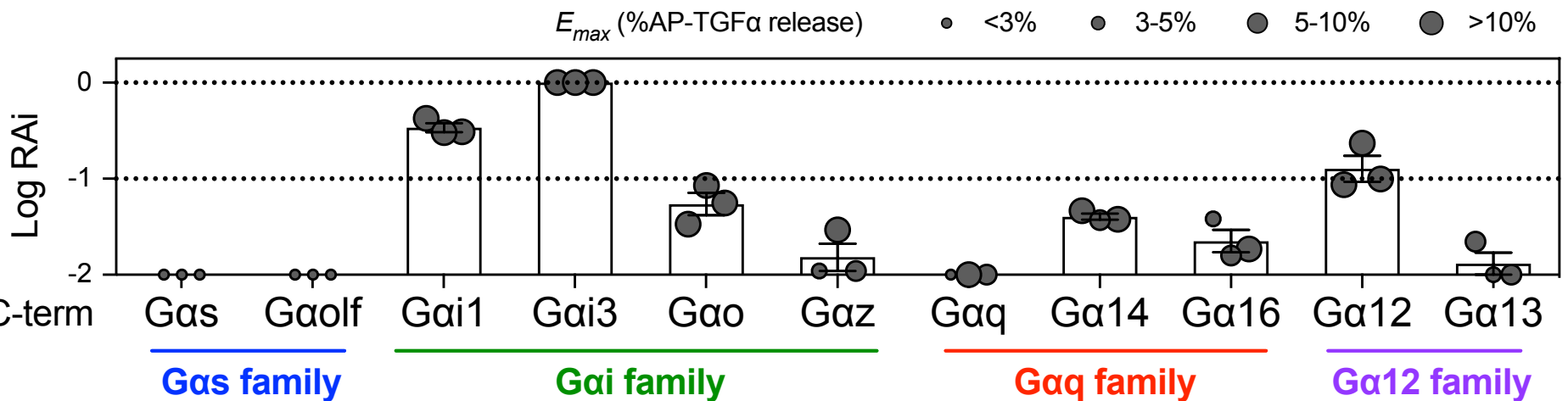
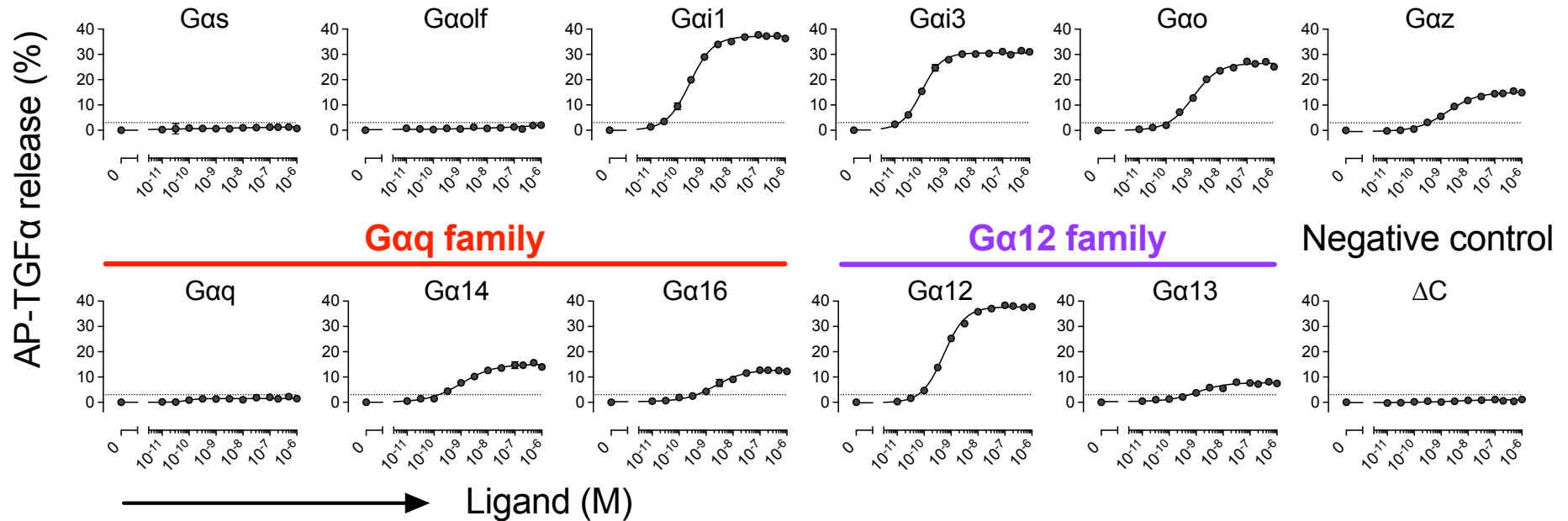
GPCR name: SST4

Tested ligand: Somatostatin

C-terminal chimera co-expression

Gas family

Gai family



GPCR gene symbol: *SSTR5*

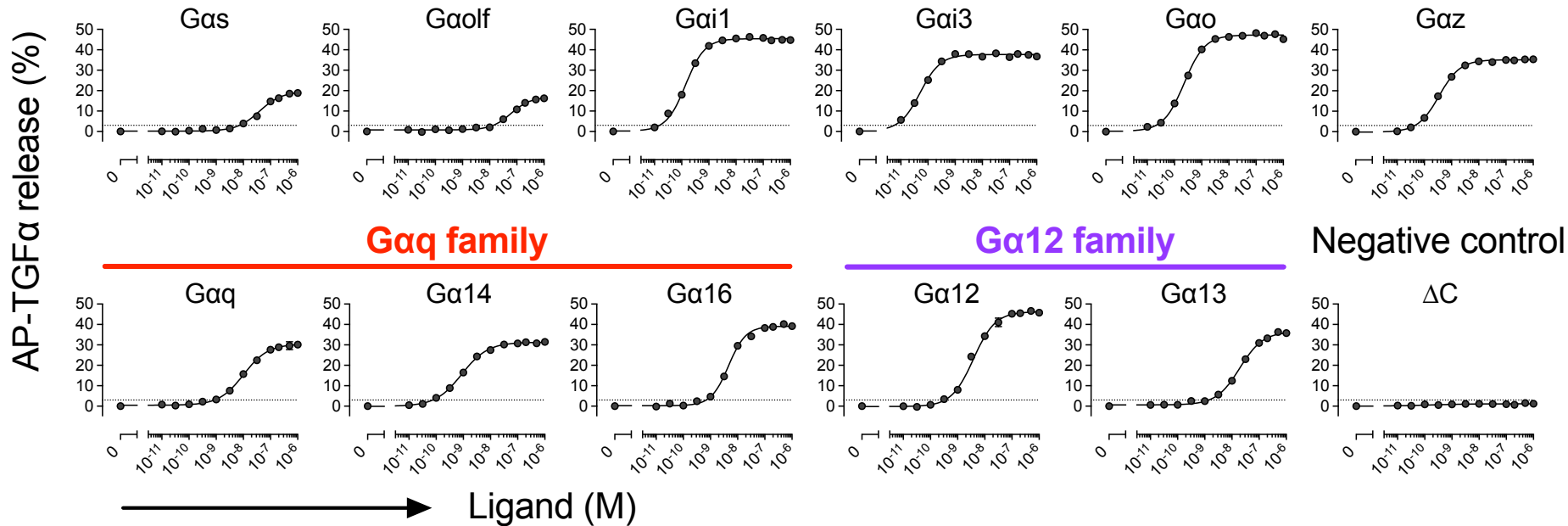
GPCR name: SST5

Tested ligand: Somatostatin

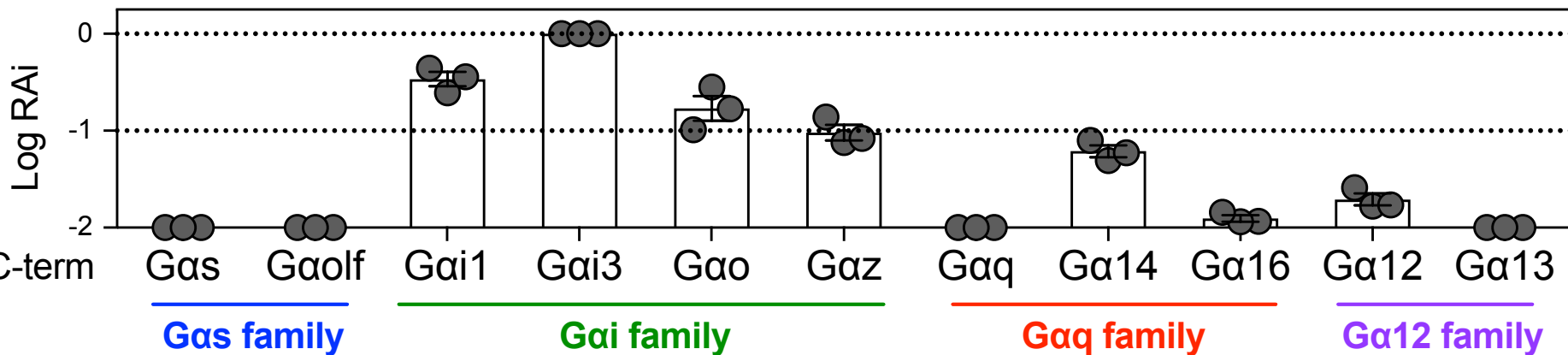
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *TACR1*

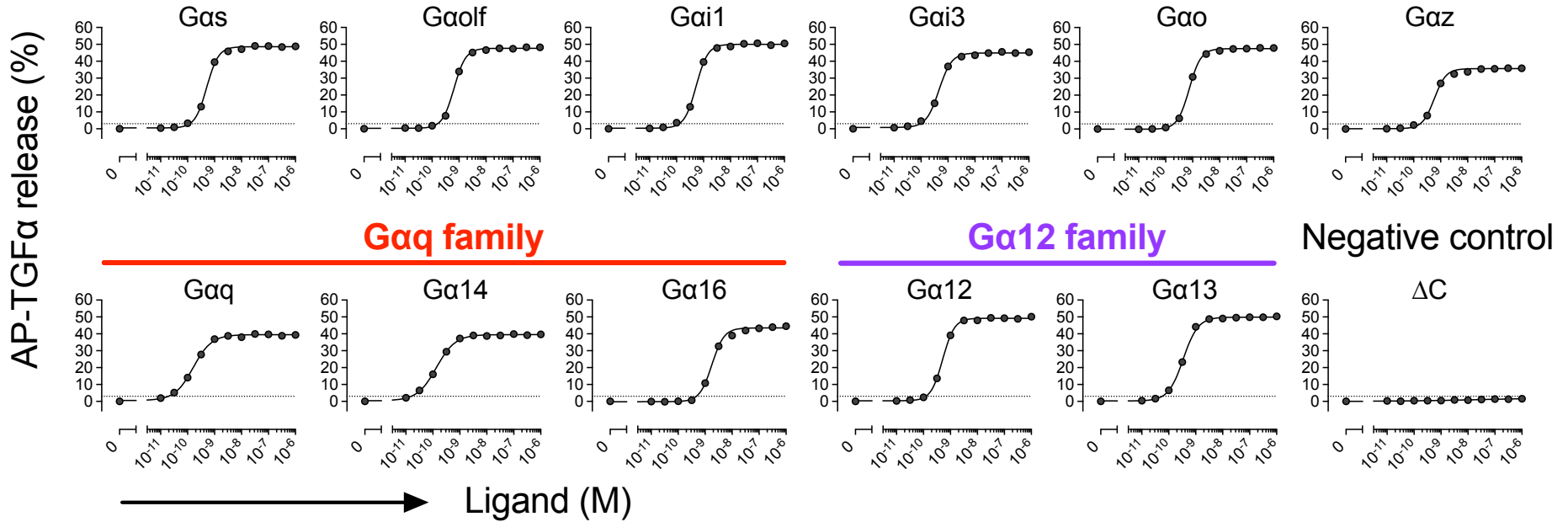
GPCR name: NK1

Tested ligand: Substance P

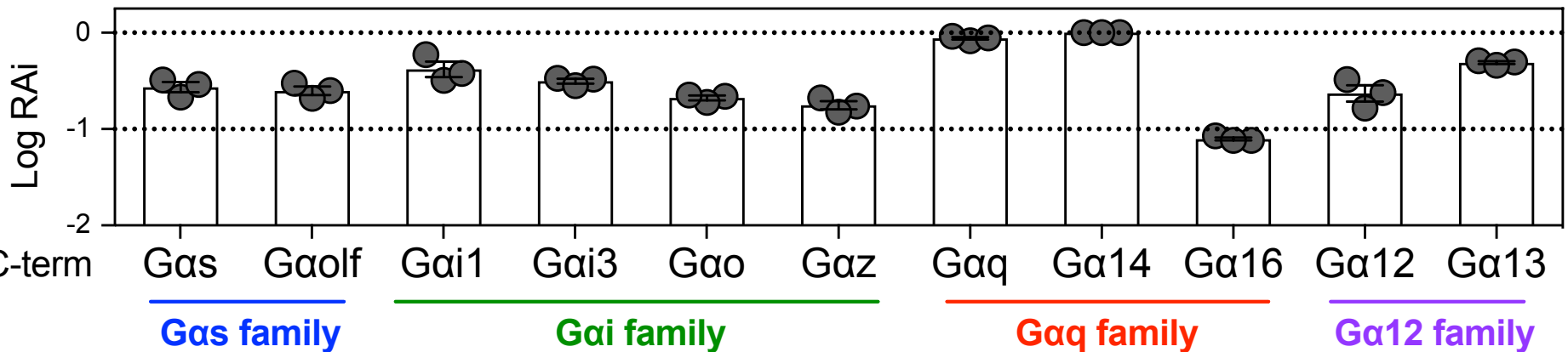
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *TACR2*

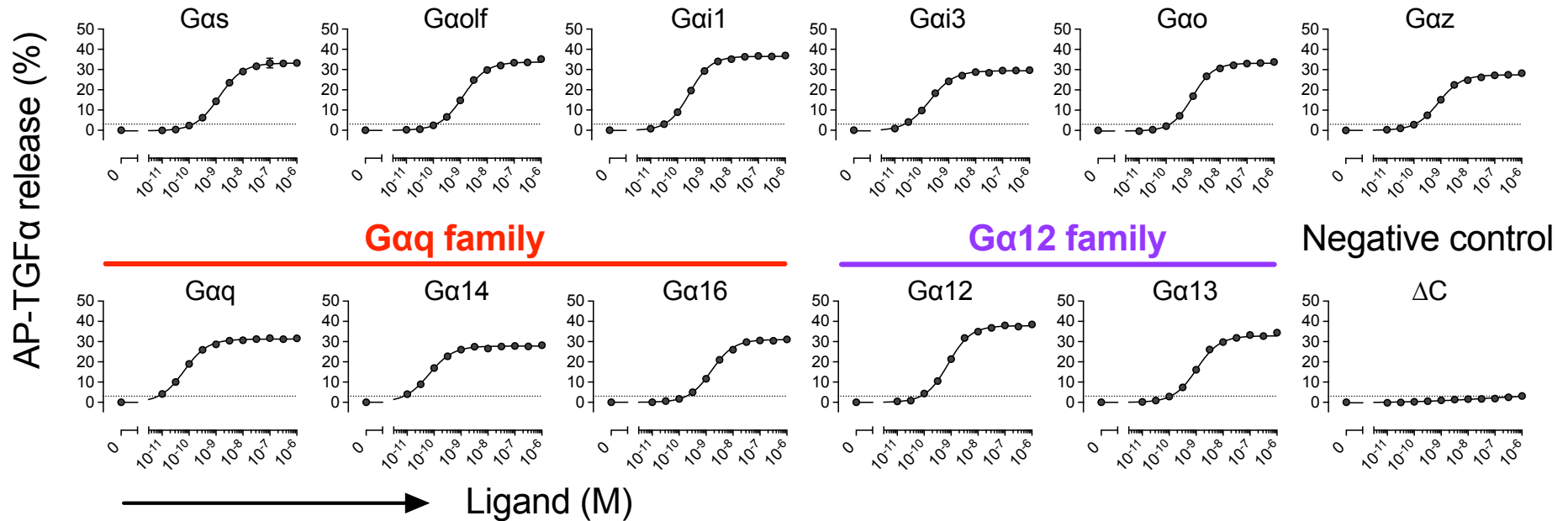
GPCR name: NK2

Tested ligand: Neurokinin A

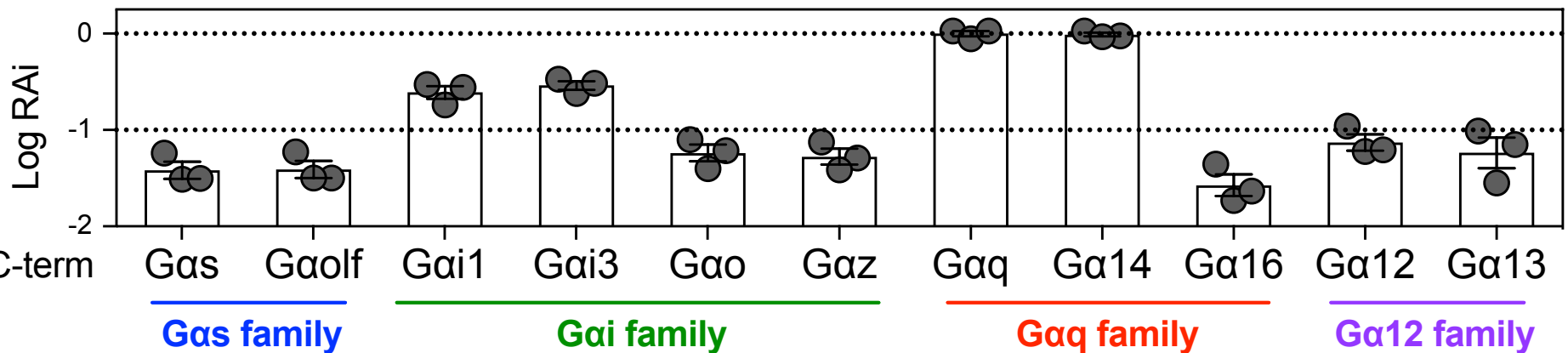
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *TACR3*

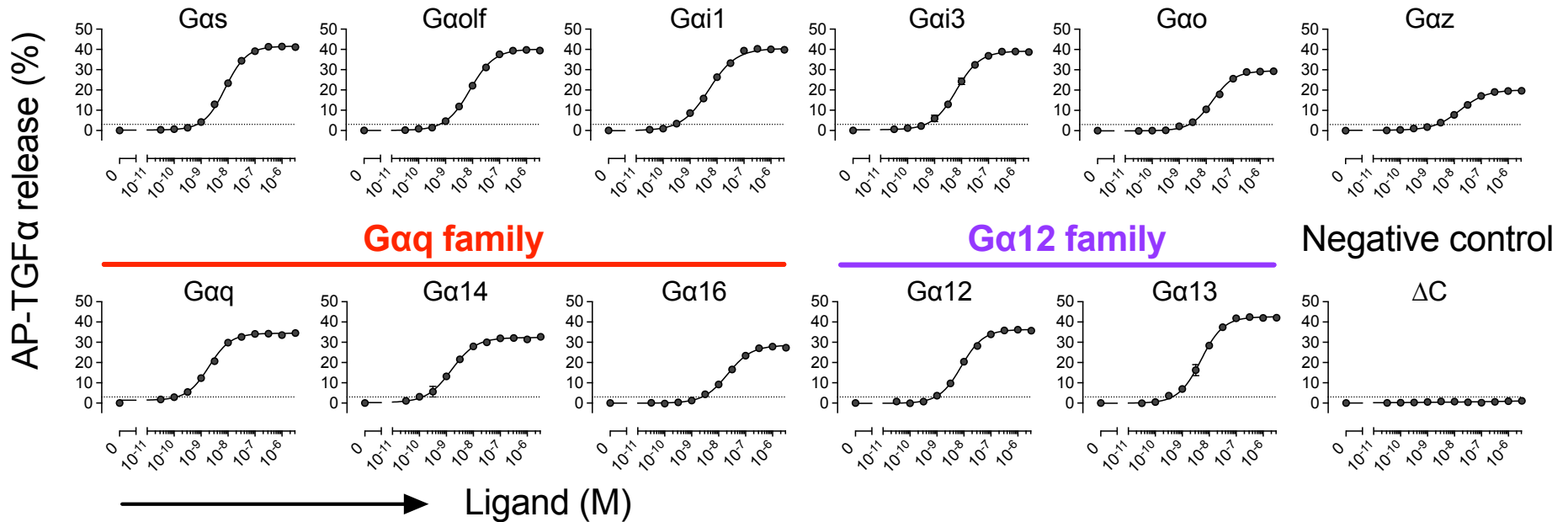
GPCR name: NK3

Tested ligand: Neurokinin B

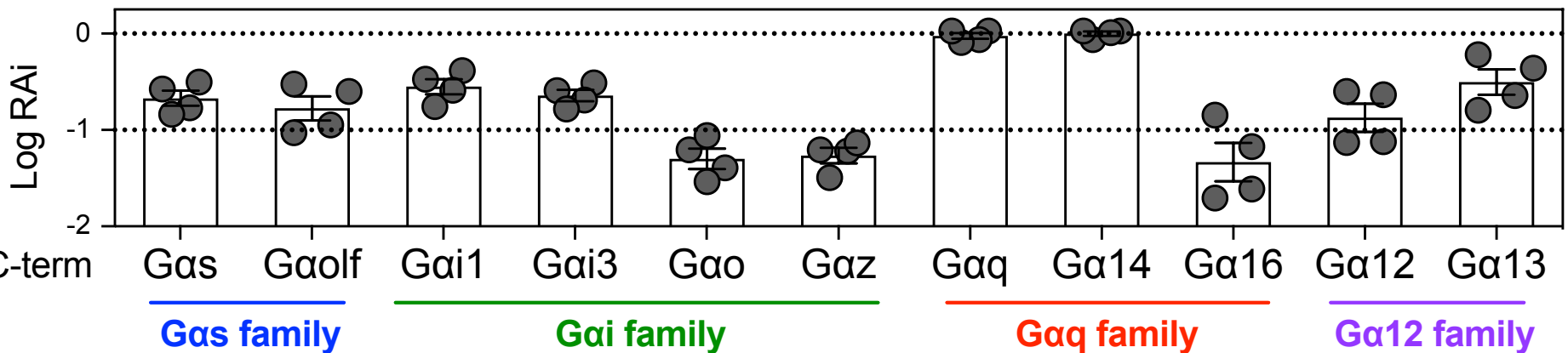
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *TBXA2R*

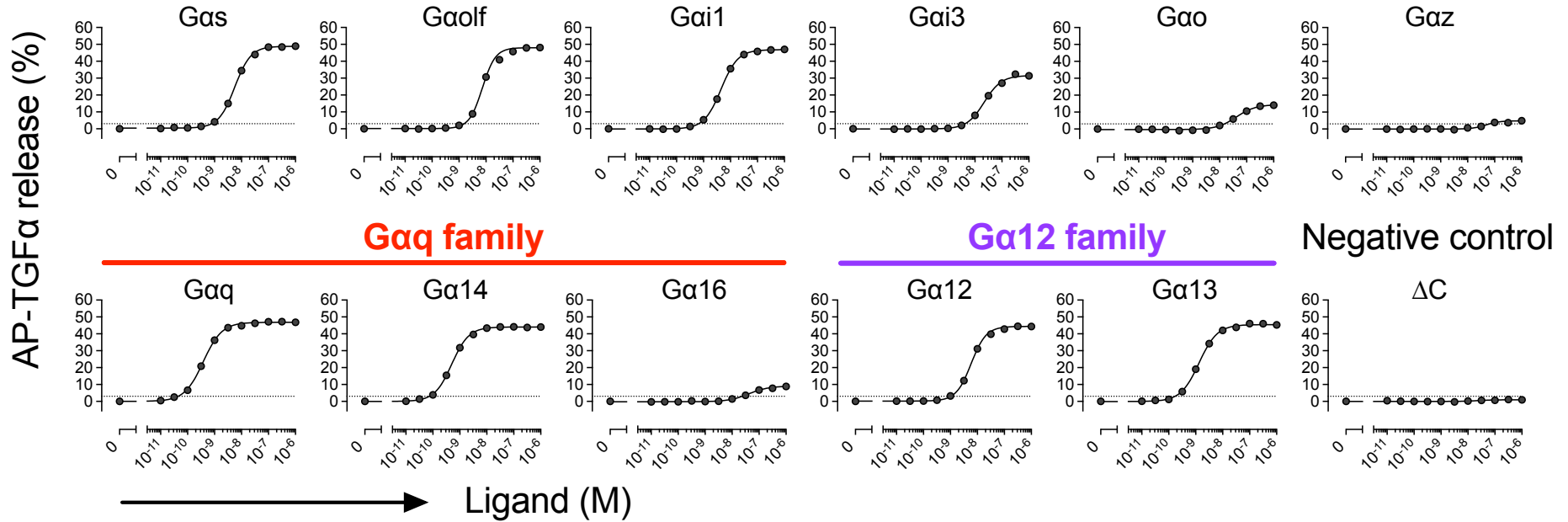
GPCR name: TP

Tested ligand: U-46619

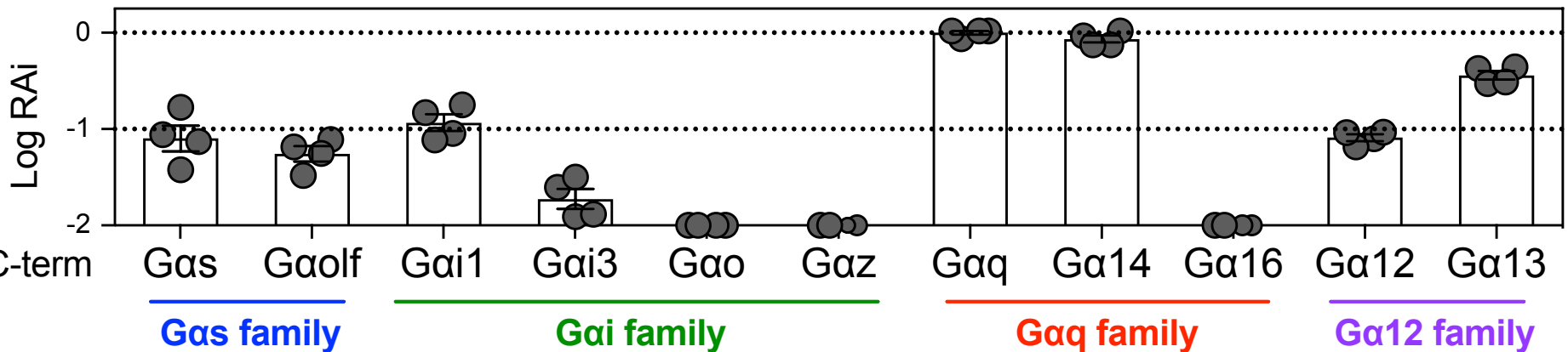
C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release) ● <3% ● 3-5% ● 5-10% ● >10%



GPCR gene symbol: *UTS2R*

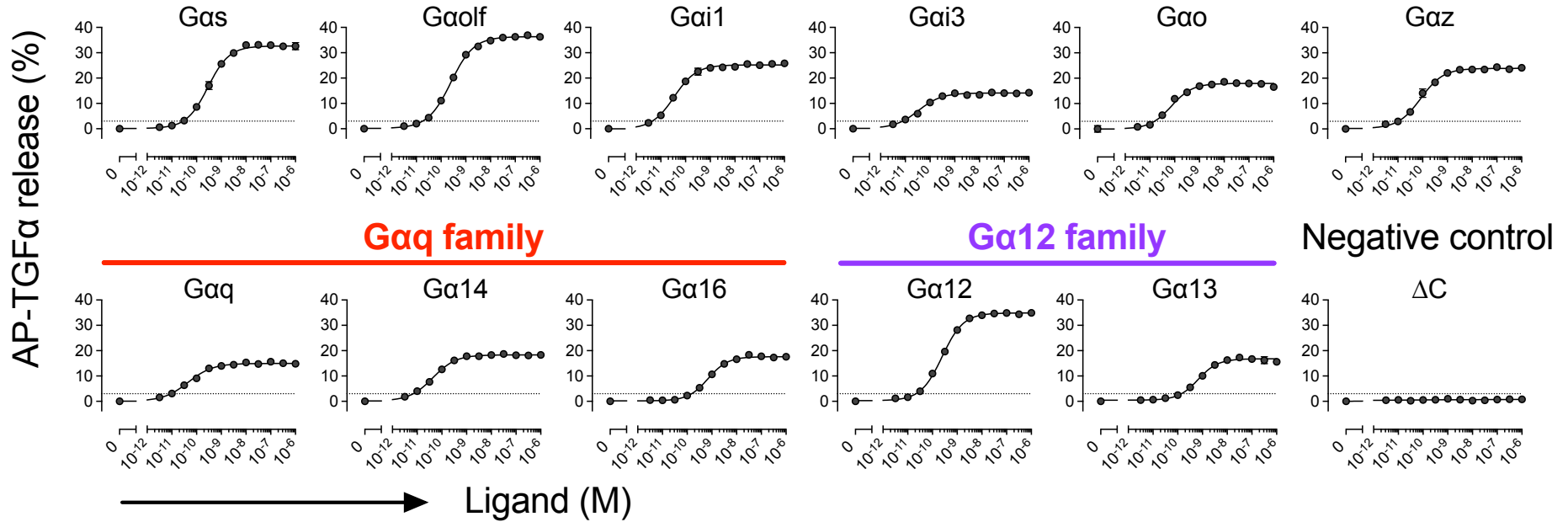
GPCR name: UTS2

Tested ligand: Urotensin II

C-terminal chimera co-expression

Gas family

Gai family



E_{max} (%AP-TGFα release)

● <3%

● 3-5%

● 5-10%

● >10%

