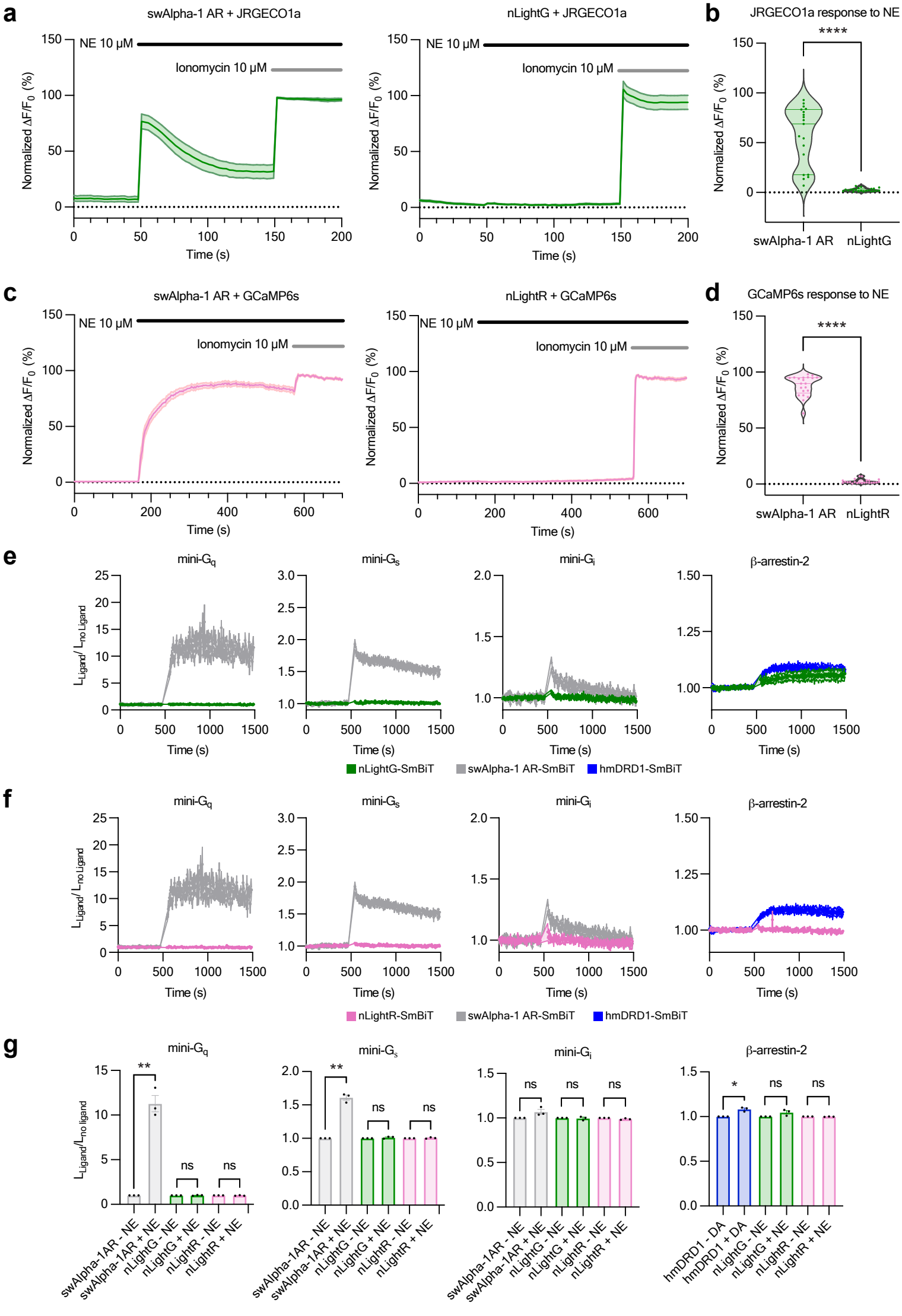
a
swAlpha-1 AR + JRGECO1a
nLightG + JRGECO1a
NE 10 µM
Ionomycin 10 µM
Normalized ΔF/F0 (%)
Time (s)
b
JRGECO1a response to NE
****
swAlpha-1 AR
nLightG
c
swAlpha-1 AR + GCaMP6s
nLightR + GCaMP6s
d
GCaMP6s response to NE
nLightR
e
mini-Gq
mini-Gs
mini-Gi
β-arrestin-2
LLigand/Lno Ligand
nLightG-SmBiT
swAlpha-1 AR-SmBiT
hmDRD1-SmBiT
f
nLightR-SmBiT
g
Lligand/Lno ligand
**
*
ns
swAlpha-1AR - NE
swAlpha-1AR + NE
nLightG - NE
nLightG + NE
nLightR - NE
nLightR + NE
hmDRD1 - DA
hmDRD1 + DA