

## Product datasheet for **RG236450**

### **G2A (GPR132) (NM\_001278696) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** G2A (GPR132) (NM\_001278696) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** G2A  
**Synonyms:** G2A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236450 representing NM\_001278696.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCAGATGGACAGCAGGATTGCCGGTACTACTACGCCAGGTTACCGTTGGCTTTGCCATCCCT
CTCTCCATCATCGCCTTACCAACCACCGGATTTTCAGGAGCATCAAGCAGAGCATGGGCTTAAGCGCT
GCCCAGAAGGCCAAGGTGAAGCACTCGGCCATCGCGGTGGTTGTCATCTTCTAGTCTGCTTCGCCCCG
TACCACCTGGTTCTCCTCGTCAAAGCCGCTGCCTTTTCTACTACAGAGGAGACAGGAACGCCATGTGC
GGCTTGGAGAAAGGCTGTACACAGCCTCTGTGGTGGTTCTGTGCTGTCCAGGTGAACGGCGTGGCT
GACCCATTATCTACGTGCTGGCCACGGACCATTCCCAGCAAGAAGTGTCCAGAATCCATAAGGGGTGG
AAAGAGTGGTCCATGAAGACAGACGTCACCAAGGCTCACCCACAGCAGGGACACCGAGGAGCTGCAGTCG
CCCGTGGCCCTTGACAGCCACTACACCTTCTCCAGGCCCGTGCACCCACCAGGTCACCATGCCCTGCA
AAGAGGCTGATTGAGGAGTCTCTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236450  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MLQMDSRIAGYYARFTVGFAPLPSIIAFTNHRIFRSIKQSMGLSAAQKAKVKHSAIAVVVIFLVCFAP
YHLVLLVKAAAFSYRGRNAMCGLEERLYTASVFLCLSTVNGVADPIIYVLATDHSRQEVSRHKGW
KEWSMKTVDVTRLTHSRDTEELQSPVALADHYTFSRPVHPPGSPCPAKRLIEESC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

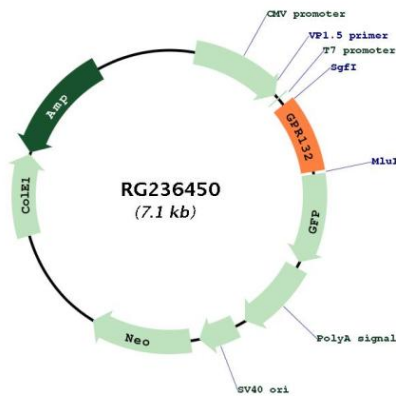


**Cloning Scheme:**


- ACCN:** NM\_001278696
- ORF Size:** 576 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
- OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
- RefSeq:** [NM\\_001278696.2](#)
- RefSeq Size:** 2894 bp
- RefSeq ORF:** 579 bp
- Locus ID:** 29933
- UniProt ID:** [Q9UNW8](#)
- Cytogenetics:** 14q32.33
- Protein Families:** Druggable Genome, GPCR, Transmembrane
- MW:** 22 kDa

**Gene Summary:**

This gene encodes a member of the guanine nucleotide-binding protein (G protein)-coupled receptor (GPCR) superfamily. The receptors are seven-pass transmembrane proteins that respond to extracellular cues and activate intracellular signal transduction pathways. This protein was reported to be a receptor for lysophosphatidylcholine action, but PubMedID: 15653487 retracts this finding and instead suggests this protein to be an effector of lysophosphatidylcholine action. This protein may have proton-sensing activity and may be a receptor for oxidized free fatty acids. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]

**Product images:**


Circular map for RG236450