

Product datasheet for **RC236450**

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: Myc-DDK
Symbol: GPR132
Synonyms: G2A
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236450 representing NM_001278696
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGCAGATGGACAGCAGGATTGCCGGTACTACTACGCCAGGTTACCGTTGGCTTTGCCATCCCTC
TCTCCATCATCGCCTTACCAACCACCGGATTTTCAGGAGCATCAAGCAGAGCATGGCTTAAGCGCTGC
CCAGAAGGCCAAGGTGAAGCACTCGGCCATCGCGGTGGTTGTTCATCTTCTAGTCTGCTTCGCCCGTAC
CACCTGGTTCTCCTCGTCAAAGCCGCTGCCTTTTCTACTACAGAGGAGACAGGAACGCCATGTGCGGCT
TGGAGGAAAGGCTGTACACAGCCTCTGTGGTGTCTGTGCCTGTCCACGGTGAACGGCTGGCTGACCC
CATTATCTACGTGCTGGCCACGGACATTCCCAGCAAGAAGTGTCCAGAATCCATAAGGGGTGAAAGAG
TGGTCCATGAAGACAGACGTACCCAGGCTACCCACAGCAGGGACACCGAGGAGCTGCAGTCGCCCGTGG
CCCTTGCAGACCACTACACCTTCTCCAGGCCGTGCACCCACAGGGTACCATGCCCTGCAAGAGGCT
GATTGAGGAGTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236450 representing NM_001278696
Red=Cloning site Green=Tags(s)

MLQMSRIAGYYARFTVGFAPLSIIAFTNHRIFRSIKQSMGLSAAQKAKVKHSAIAVVVIFLVCFAPY
HLVLLVKAASFYYRGDRNAMCGLEERLYTASVVFLCLSTVNGVADPIIYVLATDHSRQEVSRHKGWKE
WSMKTDVTRLTHSRDTEELQSPVALADHYTFSRPVHPPGSPCPAKRLIEESC

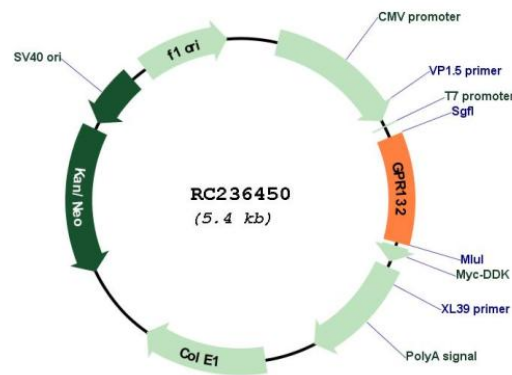
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

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]