

Product datasheet for **SC321011**

G2A (GPR132) (NM_013345) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G2A (GPR132) (NM_013345) Human Untagged Clone
Tag:	Tag Free
Symbol:	G2A
Synonyms:	G2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_013345.2
 CTGCCGTGAGATCCAGCAATGCCAACTGTGGGTCTGACCCAGGAGAACGGAAAGCAGGGA
 CGTGAACAGCCCTCCTCATGTTCTTGACACCGTCATTCTCAGCAGCTCAGCTAAGGCACA
 GAGGCAGCCGAGCGTCTGTGAGCAGAGTCGTGGCTGAGCAGAACACGCCACACGCCACAC
 GCCACACGCCACACGTGCAGGATTGCTCAAGATGGAAGGGCACAGTGGAATATATATATA
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 CTTTGAAGGAAGGAAATCCTGGCACACGCTGCAACAGGAGGGAGCTTGAGGACACTGT
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 CCACGTGGGGAGGTGACAGGGGAGCCCAGCGCACAGAGACAAAGTGAATGGAGGCTGG
 GGGCTGGGAGCAAATGCGGAGCGAGTGTCTCCTGGGCAGAGTCTCCGTTTGGGAAGATG
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TGAGACCAGCCTCGCAACATGGCAAAAATCTGTCTCTTTTTTTTGGTATTAATAAATC
ATAAAAAATAAAGAAATAATGCAATTTAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_013345
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_013345.2](#), [NP_037477.1](#)

RefSeq Size: 3652 bp

RefSeq ORF: 1143 bp

Locus ID: 29933

UniProt ID: [Q9UNW8](#)

Cytogenetics: 14q32.33

Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (1).