

Product datasheet for **RG237794**

G2A (GPR132) (NM_001278695) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G2A (GPR132) (NM_001278695) 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:	>RG237794 representing NM_001278695. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCAGGAAACGCCACCCAGTGACCACCCTGCCCGTGGGCCTCCCTGGCCTCTCCGCCAAGACC
TGCAACAACGTGTCTTTCGAAGAGAGCAGGATAGTCTGGTCTGGTGTACAGCGCGGTGTGCACGCTG
GGGGTCCCGCCAACTGCCTGACTGCGTGGCTGGCGCTGCTGCAGGACTGCAGGCAACGTGCTGGCC
GTCTACCTGCTCTGCCTGGCACTCTGCGAGCTGCTGTACACAGGCACGCTGCCACTCTGGGTCATCTAT
ATCCGCAACCAGCACCGCTGGACCCTAGGCCTGCTGGCCTGCAAGGTGACCGCTACATCTTCTTCTGC
AACATCTACGTACAGCATCTTCTTCTGTGCTGCATCTCCTGCGACCGCTTCGTGGCCGTGGTGTACGCG
CTGGAGAGTCCGGGCCCGCCCGCCGGAGACCGCCATCCTCATCTCCGCTGCATCTTTCATCCTCGTC
GGGATCGTTCACTACCCGGTGTCCAGACGGAAGACAAGGAGACCTGCTTTGACATGCTGCAGATGGAC
AGCAGGATTGCCGGTACTACTACGCCAGGTTACCCGTTGGCTTTGCCATCCCTCTCTCCATCATCGCC
TTCACCAACCACCGGATTTTCAGGAGCATCAAGCAGAGCATGGGCTTAAGCGCTGCCCAGAAGGCCAAG
GTGAAGCACTCGGCCATCGCGGTGGTGTATCTTCTAGTCTGCTTCCGCCCCGTACCACCTGGTTCTC
CTCGTCAAAGCCGCTGCCTTTTCTACTACAGAGGAGACAGGAACGCCATGTGCGCTGGAGGAAAGG
CTGTACACAGCCTCTGTGGTGTCTGTGCCTGTCCACGGTGAACGGCGTGGCTGACCCATTATCTAC
GTGCTGGCCACGGACATTCCCGCAAGAAGTGTCCAGAATCCATAAGGGGTGAAAGAGTGGTCCATG
AAGACAGACGTACCCAGGCTCACCCACAGCAGGACACCGAGGAGCTGCAGTCCGCCGTGGCCCTTGCA
GACCACTACACCTTCTCCAGGCCGTGCACCCACAGGGTCACTATGCCCTGCAAAGAGGCTGATTGAG
GAGTCCTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237794
 Blue=ORF Red=Cloning site Green=Tag(s)

MPGNATPVTTTAPWASLGLSAKTCNNVSFEESRIVLVVVYSVAVCTLGVPANCLTAWLALLQVLQGNVLA
 VYLLCLALCELLYTGTLPWVIYRNQHRWTLGLLACKVTAYIFFCNIYVSILFLCCISCDRFVAVVYA
 LESRGRRRRRTAILISACIFILVGIHVYPVFQTEDKETCFDMLQMSRIAGYYARFTVGFAPLSIIA
 FTNHRIFRSIKQSMGLSAAQKAKVKHSAIAVVVIFLVCFAPYHLVLLVKAAAFSSYYRGDRNAMCGLEER
 LYTASVFLCLSTVNGVADPIIYYLATDHSRQEVSRHKGWKEWSMKTDVTRLTHSRDTEELQSPVALA
 DHYTFSRPVHPPGSPCPAKRLIEESC
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278695

ORF Size: 1113 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_001278695.2](#)

RefSeq Size: 3008 bp

RefSeq ORF: 1116 bp

Locus ID: 29933

UniProt ID: [Q9UNW8](#)

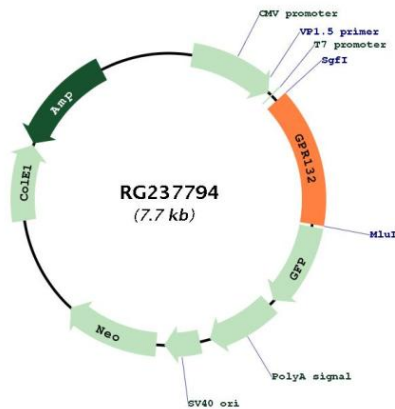
Cytogenetics: 14q32.33

Protein Families: Druggable Genome, GPCR, Transmembrane

MW: 41.9 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 RG237794