

## Product datasheet for **RC237794**

### **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:** Myc-DDK  
**Symbol:** GPR132  
**Synonyms:** G2A  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237794 representing NM\_001278695  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGCCAGGAAACGCCACCCAGTGACCACCACTGCCCGTGGGCCTCCCTGGGCCTCTCCGCAAGACCT  
GCAACAACGTGTCCTTTCGAAGAGAGCAGGATAGTCCTGGTGTACAGCGCGGTGTGCACGCTGGG  
GGTGCCCGCAACTGCCCTGACTGCGTGGCTGGCGCTGCTGCAGGTACTGCAGGGCAACGTCTGGCCGTC  
TACCTGCTCTGCCTGGCACTCTGCGAGCTGCTGTACACAGGCACGCTGCCACTCTGGGTCATCTATATCC  
GCAACCAGCACCGCTGGACCCTAGGCCTGCTGGCCTGCAAGGTGACCGCCTACATCTTCTCTGCAACAT  
CTACGTCAGCATCCTCTTCTGTGCTGCATCTCCTGCGACCGCTTCGTGGCCGTGGTGTACGCGCTGGAG  
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TTCCTACTACCCGGTGTCCAGACGGAAGACAAGGAGACCTGCTTTGACATGCTGCAGATGGACAGCAGGAT  
TGCCGGTACTACTACGCCAGGTTACCGTTGGCTTTGCCATCCCTCTCTCCATCATCGCCTTACCAAC  
CACCGGATTTTCAGGAGCATCAAGCAGAGCATGGGCTTAAGCGCTGCCAGAAAGGCAAGGTGAAGCACT  
CGGCCATCGCGGTGGTTGTCATCTTCTAGTCTGCTTCCGCCCCGTTACCACCTGGTTCTCCTCGTCAAAGC  
CGCTGCCTTTTCTACTACAGAGGAGACAGGAACGCCATGTGCGGCTTGGAGGAAAGGCTGTACACAGCC  
TCTGTGGTGTCTGTGCTGTCCACGGTGAACGGCGTGGCTGACCCATTATCTACGTGCTGGCCACGG  
ACCATTCCCGCAAGAAGTGTCCAGAATCCATAAGGGGTGAAAGAGTGGTCCATGAAGACAGACGTAC  
CAGGCTCACCCACAGCAGGGACACCGAGGAGCTGCAGTCGCCCCGTTGGCCCTTGCAGACCACTACACCTTC  
TCCAGGCCCGTGCACCCACAGGTCACCATGCCCTGCAAAGAGGCTGATTGAGGAGTCTCTGC**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**



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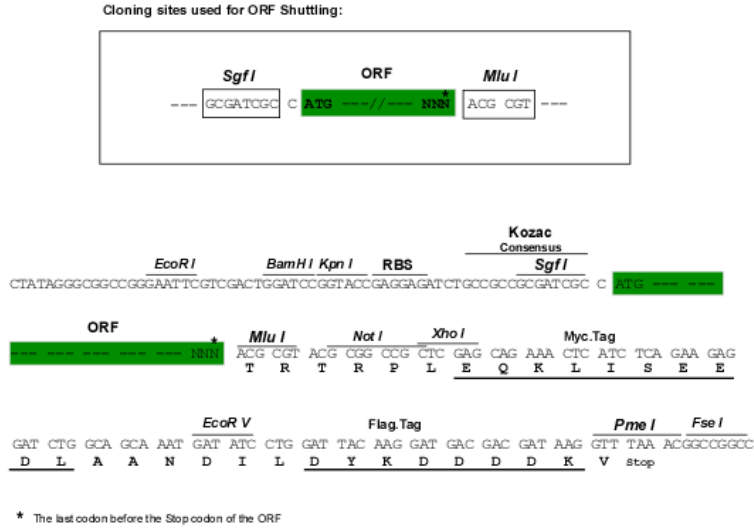
**Protein Sequence:** >RC237794 representing NM\_001278695  
 Red=Cloning site Green=Tags(s)

MPGNATPVTTTAPWASLGLSAKTCNNVSFEESRIVLVVVYSVAVCTLGVPANCLTAWLALLQVLQGNVLAV  
 YLLCLALCELLYTGTLPWVVIYIRNQHRWTLGLLACKVTAYIFFCNIYVSILFLCCISCDRFVAVVYALE  
 SRGRRRRRTAILISACIFILVGIHVYPVFQTEDKETCFDMLQMSRIAGYYYYARFTVGFAPLSIIAFTN  
 HRIFRSIKQSMGLSAAQKAKVKHSAIAVVVIFLVCFAPYHLVLLVKAAAFSYYRGDRNAMCGLEERLYTA  
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 SRPVHPPGSPCPAKRLIEESC

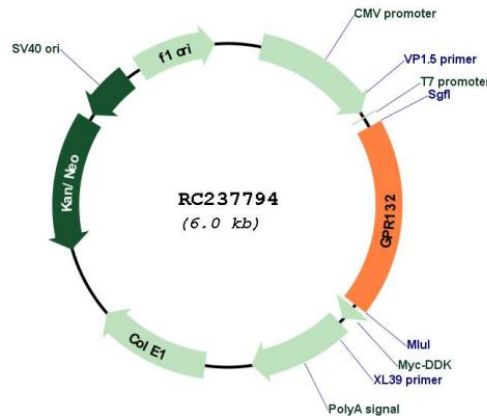
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001278695

<b>ORF Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001278695.2</a>
<b>RefSeq Size:</b>	3008 bp
<b>RefSeq ORF:</b>	1116 bp
<b>Locus ID:</b>	29933
<b>UniProt ID:</b>	<a href="#">Q9UNW8</a>
<b>Cytogenetics:</b>	14q32.33
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>MW:</b>	41.9 kDa
<b>Gene Summary:</b>	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]