

## Product datasheet for RC226832L4

### GPR56 (ADGRG1) (NM\_001145770) Human Tagged Lenti ORF Clone

#### Product data:

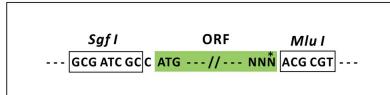
Product Type:	Expression Plasmids
Tag:	mGFP
Symbol:	GPR56
Synonyms:	BFPP; BPPR; GPR56; TM7LN4; TM7XN1
Mammalian Cell	Puromycin
Selection:	
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)

**ORF Nucleotide Sequence:** The ORF insert of this clone is exactly the same as(RC226832).

**Restriction Sites:** Sgfl-Mlul

#### Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGGCGGCCGGAAATTCGTGACTGGATCCGGTACCGAGGAGATCTGGCCGCGATCGC C ATG --- --- ---

----- NNN\* ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC --- --- ---

----- GGA CTC AGA GTT TGG GTA GGA AGC

\* The last codon before the Stop codon of the ORF.

**ACCN:** NM\_001145770

**ORF Size:** 2063 bp



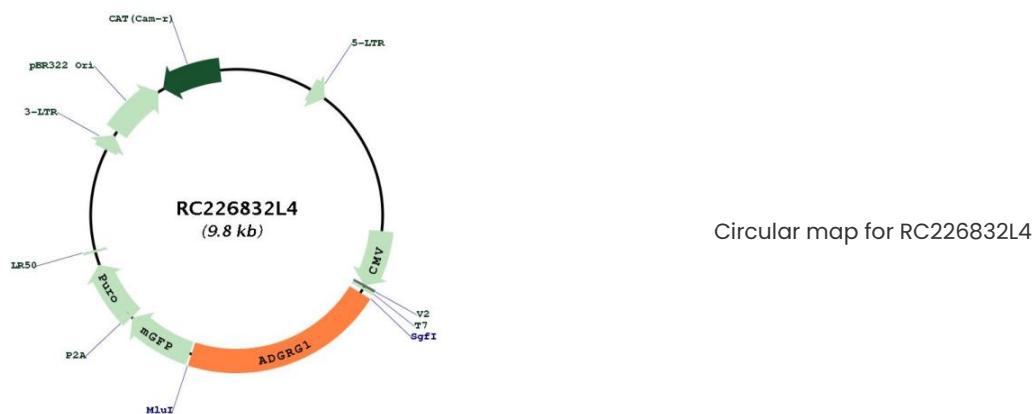
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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.

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<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001145770.1</a>
<b>RefSeq Size:</b>	3813 bp
<b>RefSeq ORF:</b>	2064 bp
<b>Locus ID:</b>	9289
<b>UniProt ID:</b>	<a href="#">Q9Y653</a>
<b>Cytogenetics:</b>	16q21
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>MW:</b>	77.1 kDa
<b>Gene Summary:</b>	This gene encodes a member of the G protein-coupled receptor family and regulates brain cortical patterning. The encoded protein binds specifically to transglutaminase 2, a component of tissue and tumor stroma implicated as an inhibitor of tumor progression. Mutations in this gene are associated with a brain malformation known as bilateral frontoparietal polymicrogyria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

**Product images:**

Circular map for RC226832L4