

## Product datasheet for **SC311149**

### **GPR56 (ADGRG1) (NM\_005682) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_005682) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR56
Synonyms:	BFPP; BPPR; GPR56; TM7LN4; TM7XN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC311149 representing NM\_005682.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGATCCCCAGTCGCTGCTGCAGACGACTGTTCTCTGCTGAGTCTGCTCTTCCTGGTCCAAGGTGCC
CACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACAGGAGCAGCCTC
CACTACAAACCCACACCAGACTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCC
CCTTTCCCTGCAGCCACCCTGCTTCCCGATCCTTCCCTGACCCAGGGGCTCTACCACTTCTGCCTC
TACTGGAACCGACATGCTGGGAGATTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAA
GCCTCTAGCCTCCTGCTTCCAGCACCAGGAGGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACT
TCTGTCACCTCCTGGTGGAGCCCTCAGAACATCAGCCTGCCAGTGCCGCCAGTTACCTTCTCCTTC
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CAGTTGCAGAGCCTGGAGTCGAAACTGACTCTGTGAGATTTCATGGGGGACATGGTGTCTTCGAGGAG
GACCGGATCAACGCCACGGTGTGGAAGCTCCAGCCACAGCCGGCTCCAGGACCTGCACATCCACTCC
CGGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTTTCAGAGG
ACGAAAGGCCGGAGCGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCCTGTTT
CAGGACAAGAATTCCAGCCAAGTCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTA
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CTGCGCCCCACACCCAAAGTGGTACATGTGCTGACACTGCTGGGCTCAGCCTGGTCCCTGGCCTG
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ATCATCACCTCCTTCAAGGCTTCTCATCTTCTGTTACTGGTCCATGCGGCTGCAGGCCCGGGGT
GGCCCCCTCCCCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGCACCTCGTCC
AGCCGCATCTAG
ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_005682  
**Insert Size:** 2082 bp

**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).

<b>OTI Annotation:</b>	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.
<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_005682.6</a>
<b>RefSeq Size:</b>	3831 bp
<b>RefSeq ORF:</b>	2082 bp
<b>Locus ID:</b>	9289
<b>UniProt ID:</b>	<a href="#">Q9Y653</a>
<b>Cytogenetics:</b>	16q21
<b>Domains:</b>	GPS, 7tm_2
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>MW:</b>	77.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the use of an alternate promoter and differs in the 5' UTR compared to variant 4. Variants 1 and 4 encode the same isoform (a).</p>