

Product datasheet for **SC310170**

GPR56 (ADGRG1) (NM_201524) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_201524) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR56
Synonyms:	BFPP; BPPR; GPR56; TM7LN4; TM7XN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

```
>OriGene ORF sequence for NM_201524 edited
ATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCCTGGTC
CAAGGTGCCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAG
ACACACAGGAGCAGCCTCCACTACAAACCCACACCAGACTGCGCATCTCCATCGAGAAC
TCCGAAGAGGCCCTCACAGTCCATGCCCTTCCCTGCAGCCACCCTGCTTCCCGATCC
TTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTTAGCCTCCTC
TGCTTCCAGCACCAGGAGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCAATTCTGTC
ACCTCCTGGTGGAGCCCTCAGAACATCAGCCTGCCAGTGCCGCCAGTTACACTTCTCC
TTCCACAGTCTCCACACGGCCGCTCACAATGCCTCGGTGGACATGTGCGAGCTCAA
AGGGACCTCCAGCTGCTCAGCCAGTTCTGAAGCATCCCCAGAAGGCCTCAAGGAGGCC
TCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGA
TTCATGGGGGACATGGTGTCTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTC
CAGCCCACAGCCGGCCTCCAGGACTGCACATCCACTCCCGCAGGAGGAGGAGCAGAGC
GAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTTTCAGAGGACGAAAGCCGG
AGGGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTACGACAGCAAGCCCTGTCCAG
GACAAGAATTCCAGCCAAGTCTGGGTGAGAAGTCTTGGGGATTGTGGTACAGAACACC
AAAGTAGCCAACCTCACGGAGCCGTGGTGTCTACCTTCCAGCACCAGCTACAGCCGAAG
AATGTGACTCTGCAATGTGTGTTCTGGGTTGAAGACCCACATGAGCAGCCCGGGCAT
TGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAACCCAAACATCCTGCTTCTGCAAC
CACTTGACCTACTTTGCAGTGTGATGGTCTCCTCGGTGGAGGTGGACGCCGTGCACAAG
CACTACCTGAGCCTCCTCTCCTACGTGGGCTGTGTGCTCTGCCCTGGCCTGCCTTGTG
ACCATTGGCCGCTACCTCTGCTCCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCAC
ATGAACCTGCTGCTGGCCGCTTCTCCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTG
GCCCTGACAGGCTCTGAGGCTGGCTGCCGAGCCAGTGCCATCTTCTGCACTTCTCCCTG
CTCACCTGCCTTCTCGGATGGCCTCGAGGGGTACAACCTTACCGACTCGTGGTGGAG
GTCTTTGGCACCTATGTCCTGGCTACCTACTCAAGCTGAGCGCCATGGGCTGGGCTTC
CCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACTATGGCCCCATCATC
TTGGCTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGGGAC
TCCCTGGTCAGCTACATACCAACCTGGGCCTTTCAGCCTGGTGTCTTCTGTTCAACATG
GCCATGCTAGCCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGG
TCACATGTGCTGACACTGCTGGGCTCAGCCTGGTCTTGGCCTGCCCTGGGCCTTGATC
TTCTTCTCCTTTGCTTCTGGCACCTTCCAGTTGTGCTCCTTACCTTTTCAGCATCATC
ACCTCCTTCCAAGGCTTCTCATCTTCTGTTACTGGTCCATGCGGCTGCAGGCCCGG
GGTGGCCCTCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGC
AGCACCTCGTCCAGCCGATCTAG
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_201524 unedited
 ATTTCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCA
 GAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGA
 ATTCGGCACGAGGGTCTGCCCTGCCCTGCCGTAGGAGAGGGGCTGGGAGCCTCCCACGCT
 CTCCAGCTCACTCGGCAGGCAGCGGGGACCAGGGCTGGCAGGTTAAGCCTCTGGGGGTGG
 ATCCTGAAAGGTGGTCCAGCCGCTGCCCTGCGTGGGACCCTCCACCTGGCAGCAGACA
 GGGTCTCGCTCTGTCACACAGGCTGGAGTGCAGTGGTGTGATCTTGGCTCATCGTAACCT
 CCACCTCCCGGGTTCAAGTGAGTCTCATGCCTCAGCCTCCCGAGTAGCTGGGATTACAGG
 TGGTGACTTCCAAGAGTACTCCGTCCGAGGAAAATGACTCCCCAGTCGCTGCTGCAGAC
 GACTGTTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTGCCACGGCAGGGGCCACAG
 GGAAGACTTTTCGTTCTGCAGCCAGCGGAACCAGACACAGGAGCAGCCTCCACTACAA
 ACCCACACCAGACTGCGCATCTCCATCGAGAATCCGAAGAGGCCCTCACAGTCCATGC
 CCCTTCCCTGCAGCCCACCTGCTTCCGAGCCTTCCCTGACCCAGGGGCCTTACCA
 CTTCTGCCTCTAGTGAACCGACATGCTGGGAGAGTACATCTTCTCTATGGCAGCGTGA
 CTTCTTGCTGAGTGACAGAGCCTTAGCCTNCTGCTTCCACACCAGGAGGAGAGCCTG
 GCTCAGGCCTCCCGCTGTAGCCACTCTGTACCTCCTGGTGGAGCCTCAGACATAGCTNGC
 CAGNGCCGCGCTTACCTTNTCTTNCAGNCTCCTCACGGCGTACATGGCTCGTGGAAATGT
 GCAGCTAAG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_201524 unedited
 NNNNTTTTAGCTATGGACCCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTTT
 AGGCGATTACAACAGCTGATTTTTATTTTTCTTCTTGATTCTTCTTCTACAGTTTCCAAT
 TCTCTACAATGAACATGTACTTCTTTTTAATATCAAAGACAAAAGAATTGGTACGTAAA
 AAGAACATCCTTCCCATCTTCAAGGTCAAGATTGAACGCTGACTCCTGCAGGAAGTCTTC
 CAGGATTTCCAGGCAGGAATGATGGCTCCCTGTCCCTGTAGCTCCAGGAGTTCTTGCTTC
 ACGCACGCCTCACATACCAGACTGAATGTTGGCAGGAGGAGTGACCAGGTCGGTCATCTG
 TGTCCCTACCACCTACAACAGGCCAGCAATCTACCCGTGTGTGTTTGGTGGACAGAATTA
 ACCATGATGGGCGGCCGAGGGCCCTGGAGCTATTTGGGGGCTTGAGAGAACTCTTAG
 GAGAGTGTGAGGCTCTAGGCCAGTGTACCAGAGGAGGTCAGTCTCAGTCTTGGAGTGG
 TGGGATGGAAACCAGACGGGACTGGCATGGTCCACAGTTCTTGCCACAAGAGGGCTTCAG
 GAGAGGCTGAGGGCCCTCTGAGGCGTGTGCTTGGTCAGGGTGAGCAAGGGCAATGCAGC
 TCATAAAAGGCCAGATGGACAGAGGGACCTAGCCAGCCACGCATCGGTACCAGGCC
 TGGCTCAGGGCAGGCCGAGGCTTGTGCAGTAGACAAAACATTTACAGCAGACACCAGGCAG
 CTCCTGGAACCCTCCCAAAAACAGCATTGGAATCGGGGACCCCAAGCTGTGAACGAA
 GAGCNAGGAGGCCCTGGGAGAGGAGGAGAAACCCAGGAAGATGGAGGGAGACTGNNGGGC
 TGAGGAGGNAA

Restriction Sites:

Please inquire

ACCN:

NM_201524

Insert Size:

3900 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).

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:	<ol style="list-style-type: none">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:	<u>NM_201524.1, NP_958932.1</u>
RefSeq Size:	3919 bp
RefSeq ORF:	2064 bp
Locus ID:	9289
UniProt ID:	<u>Q9Y653</u>
Cytogenetics:	16q21
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	<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 (2) differs in the 5' UTR and uses an alternate in-frame splice site in the coding region compared to variant 4. The resulting isoform (b, also known as S1) is shorter than isoform a. Variants 2, 3, 5, 6, and 7 encode the same isoform.</p>