

Product datasheet for **SC126689**

GPR56 (ADGRG1) (NM_201525) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_201525) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPR56
Synonyms:	BFPP; BPPR; GPR56; TM7LN4; TM7XN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126689 sequence for NM_201525 edited (data generated by NextGen Sequencing)

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ATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCCTGGTC
CAAGGTGCCACGGCAGGGGCCACAGGGAAGACTTTCGTTCTGCAGCCAGCGGAACCAG
ACACACAGGAGCAGCCTCCACTACAAACCCACACCAGACTGCGCATCTCCATCGAGAAC
TCCGAAGAGGCCCTCACAGTCCATGCCCTTTCCTGCAGCCCACCCTGCTTCCCAGTCC
TTCCCTGACCCCCAGGGGCTCTACCACTTCTGCCTCTACTGGAACCGACATGCTGGGAGA
TTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTC
TGCTTCCAGCACAGGAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCAATTCTGTC
ACCTCCTGGTGGAGCCCTCAGAACATCAGCCTGCCAGTGCCGCCAGTTACCTTCTCC
TTCCACAGTCTCCACACGGCCGCTCACAATGCCTCGGTGGACATGTGCGAGCTCAA
AGGGACCTCCAGCTGCTCAGCCAGTTTCTGAAGCATCCCAGAAGGCCTCAAGGAGGCC
TCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGA
TTCATGGGGGACATGGTGTCTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTC
CAGCCCACAGCCGCCTCCAGGACTGCACATCCACTCCGGCAGGAGGAGGAGCAGAGC
GAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTCTTCCAGAGGACGAAAGCCGG
AGGGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCTGTCCAG
GACAAGAATTCCAGCCAAGTCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACC
AAAGTAGCCAACCTCACGGAGCCGTGGTGCTCACCTTCCAGCACCAGCTACAGCCGAAG
AATGTGACTCTGCAATGTGTGTTCTGGGTTGAAGACCCACATTGAGCAGCCCGGGGCAT
TGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAACCCAAACATCCTGCTTCTGCAAC
CACTTGACCTACTTTGCAGTGTGATGGTCTCCTCGGTGGAGGTGGACGCCGTGCACAAG
CACTACCTGAGCCTCCTCCTACGTGGGCTGTGTCGTCTGCTGCCCTGGCCTGCCTTGTG
ACCATTGCCGCCTACCTCTGCTCCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCAC
ATGAACCTGCTGCTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTG
GCCCTGACAGGCTCTGAGGCTGGCTGCCGAGCCAGTGCCATCTTCTGCACTTCTCCCTG
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GTCTTTGGCACCTATGTCCTGGCTACCTACTCAAGCTGAGCGCCATGGGCTGGGCTTC
CCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACTATGGCCCCATCATC
TTGGCTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGGGAC
TCCCTGGTCAGCTACATACCAACCTGGGCCTTTCAGCCTGGTGTCTTCTGTTCAACATG
GCCATGTAGCCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGG
TCACATGTGCTGACACTGCTGGGCTCAGCCTGGTCTTGGCCTGCCCTGGGCCTTGATC
TTCTTCTCCTTTGCTTCTGGCACCTTCCAGCTTGTGCTCCTTACCTTTTCAGCATCATC
ACCTCCTTCCAAGGCTTCTCATCTTCACTGCTGTTACTGGTCCATGCGGCTGCAGGCCCGG
GGTGGCCCCTCCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGC
AGCACCTCGTCCAGCCGCATCTAG

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Clone variation with respect to NM_201525.2
843 c=>g;996 t=>c

Restriction Sites: NotI-NotI

ACCN: NM_201525

Insert Size: 4000 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).

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_201525.1, NP_958933.1</u>
RefSeq Size:	3755 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 (3) 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. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>