

Product datasheet for **RC226886**

GPR56 (ADGRG1) (NM_001145772) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_001145772) Human Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide
Sequence:**

>RC226886 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTGC
 CCACGGCAGGGCCACAGGGAAGACTTTTCGCTTCTGCAGCCAGCGGAACCAGACACAGGAGCAGCCTC
 CACTACAAACCCACACCAGACTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCC
 CTTTCCCTGCAGCCACCCTGCTTCCCGATCCTTCCCTGACCCAGGGGCTCTACCACTTCTGCCTCTA
 CTGGAACCGACATGCTGGGAGATTACATCTTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCC
 TCTAGCCTCCTCTGCTTCCAGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGTGTAGCCACTTCTG
 TCACCTCCTGGTGGAGCCCTCAGAACATCAGCCTGCCAGTGCCGCCAGCTTACCTTCTCCTTCCACAG
 TCCTCCCCACACGGCCGCTCACAATGCCTCGGTGGACATGTGCGAGCTCAAAGGGACCTCCAGCTGCTC
 AGCCAGTTCCTGAAGCATCCCCAGAAGGCCTCAAGGAGGCCCTCGCTGCCCGCCAGCCAGCAGTTGC
 AGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTCATGGGGGACATGGTGTCTTCGAGGAGGACCAGGAT
 CAACGCCACGGTGTGGAAGCTCCAGCCACAGCCGGCCTCCAGGACCTGCACATCCACTCCCGGCAGGAG
 GAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTTCCAGAGGACGAAAGGCC
 GGAGGGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAA
 TTCCAGCCAAGTCTGGGTGAGAAGGCTTTGGGGATTGTGGTACAGAACACCAAAGTAGCCAACCTCACG
 GAGCCCGTGGTGTCTCACCTTCCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGTTCTGGG
 TTGAAGACCCACATTGAGCAGCCCGGGCATTGGAGCAGTGTGGTGTGAGACCGTCAGGAGAGAAAC
 CCAAACATCCTGCTTCTGCAACCACTTGACCTACTTTGCAGTGTGATGGTCTCCTCGGTGGAGTGGAC
 GCCGTGACAAGCACTACCTGAGCCTCCTCCTACGTGGGCTGTGTCTCTGCTGCTGCTGCTGCTGCTGCTG
 TCACCTTGGCCGCTACCTCTGCTCCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGAACCT
 GCTGCTGGCCGCTTCTGCTGAGACAGGACTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAG
 GCTGGCTGCCGAGCCAGTCCATCTTCTGCACTTCTCCCTGCTCACCTGCCTTCTGATGGCCCTCG
 AGGGGTACAACCTCTACCGACTCGTGGTGGAGGCTTTGGCACCTATGTCCTGGCTACCTACTCAAGCT
 GAGCGCCATGGGCTGGGCTTCCCCTCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACAT
 GGCCCCATCATCTTGGCTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGG
 ACTCCCTGGTCTGCTACATCACCACCTGGGCCTTTCAGCCTGGTGTCTTCTGTTCAACATGGCCATGCT
 AGCCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACCCAAAAGTGGTCACATGTGCTGACACTG
 CTGGGCCTCAGCCTGGTCTTGGCCTGCCTGGGCCTTGATCTTCTTCTCCTTGTCTTGGCACCTTCC
 AGCTTGTGCTCTACCTTTTTCAGCATCATCACCTCCTTCCAAGGCTTCTCATCTTCTGTTACTG
 GTCCATGCGGCTGCAGGCCCGGGTGGCCCTCCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCC
 ATCAGCTCGGGCAGCACCTCGTCCAGCCGCATC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226886 protein sequence
Red=Cloning site Green=Tags(s)

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X*LPSRCCRRHCSC*VCSSWSKVPTAGATGKTFASAASGTRHTGAASTTNPHQTCASPSRTPKRPSQSMP
LSLQPTLLPDPSTLTPGASTTSASTGTDMLGDYIFSMASVTSC*VTKPLASSASSTRRRRAWLRAPRC*PLL
SPPGGALRTSACPVPPASPSSTVLPTRPLTMPRWTCASSKGTSSCSASS*SIPRRPQGGPRLPPPASSC
RAWSRN*PL*DSWGTWCPSTRRTGSTPRCGSSSQPASRTCTSTPGRRRRSRARSWSTRCCCLEHSSRGRKA
GGRLRRDSSWWTSAAKPCSRTRIPAKSWVRRSWGLWYRTPK*PTSRSPWCSPSSTYSRRM*LCNVCSG
LKTPH*AARGIGAVLGVRPSGEKPKHPASATT*PTLQC*WSPRWRTPTCTST*ASSPTWAVSSLPWPAL
SPLPPTSAPGGNLGTTPSRCT*TCCWPSSCWTRASCSASRWP*QALRLAAEPVPSCTSPCSPAFIGWAS
RGTSTSDSWWRLAPMSLATYSS*APWAGASPSFW*RWWPWWMTTMAPSSWLCIGLQRASSTLPCAGSG
TPWATSPTWASSAWFCSTWPC*PPWWCRSCGCAPTPKSGHMC*HCWASAWSLACPGP*SSSPLLLAPS
SLSSSTFSASSPPSKASSSSSGTGPCGCRPGVAPPL*RATQTAPGSPSARAAPRPA
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TRTRPLEQKLISEEDLANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6711_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145772

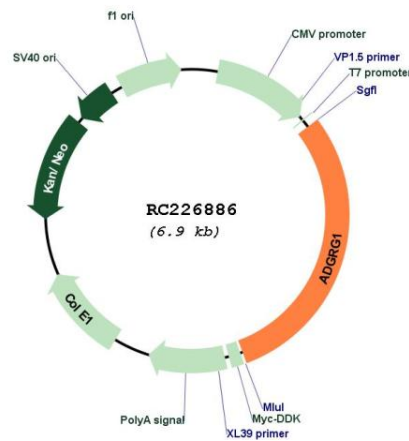
ORF Size: 2061 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001145772.3</u>
RefSeq Size:	4277 bp
RefSeq ORF:	2064 bp
Locus ID:	9289
UniProt ID:	<u>Q9Y653</u>
Cytogenetics:	16q21
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	77.1 kDa
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>

Product images:



Circular map for RC226886