

Product datasheet for **RC226832**

GPR56 (ADGRG1) (NM_001145770) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | GPR56 (ADGRG1) (NM_001145770) 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) |



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC226832 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

RCATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTGC
 CCACGGCAGGGCCACAGGGAAGACTTTTCGCTTCTGCAGCCAGCGGAACCAGACACAGGAGCAGCCTC
 CACTACAAACCCACACCAGACTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCC
 CTTTCCCTGCAGCCACCCTGCTTCCGATCCTTCCCTGACCCAGGGGCTCTACCACTTCTGCCTCTA
 CTGGAACCGACATGCTGGGAGATTACATCTTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCC
 TCTAGCCTCCTCTGCTTCCAGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGTGTAGCCACTTCTG
 TCACCTCTGGTGGAGCCCTCAGAACATCAGCCTGCCAGTGCCGCCAGCTTACCTTCTCCTTCCACAG
 TCCTCCCCACACGGCCGCTCACAATGCCTCGGTGGACATGTGCGAGCTCAAAGGGACCTCCAGTGCTC
 AGCCAGTTCCTGAAGCATCCCCAGAAGGCCTCAAGGAGGCCCTCGCTGCCCCGCCAGCCAGCAGTTGC
 AGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTCATGGGGGACATGGTGTCTTCGAGGAGGACCAGGAT
 CAACGCCACGGTGTGGAAGCTCCAGCCACAGCCGGCCTCCAGGACCTGCACATCCACTCCCGGCAGGAG
 GAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTTCCAGAGGACGAAAGGCC
 GGAGGGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAA
 TTCCAGCCAAGTCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTAGCCAACCTCACG
 GAGCCCGTGGTGTCTCACCTTCCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGTTCTGGG
 TTGAAGACCCACATTGAGCAGCCCGGGCATTGGAGCAGTGTGGTGTGAGACCGTCAGGAGAGAAAC
 CCAAACATCCTGCTTCTGCAACCACTTGACCTACTTTCAGTGTGATGGTCTCCTCGGTGGAGTGGAC
 GCCGTGCACAAGCACTACCTGAGCCTCCTCCTACGTGGGCTGTGTCTCTGCTCCTGCTGCTGCTTGTG
 TCACCTTGCAGCCTACCTCTGCTCCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGAACCT
 GCTGCTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAG
 GCTGGCTGCCGAGCCAGTGCCATCTTCTGCACTTCTCCCTGCTCACCTGCCTTCTGATGGGCTCG
 AGGGGTACAACCTCTACCGACTCGTGGTGGAGGTCTTGGCACCTATGTCCTGGCTACCTACTCAAGCT
 GAGCGCCATGGGCTGGGCTTCCCCTCTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACCTAT
 GGCCCCATCATCTTGGCTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGGG
 ACTCCCTGGTCTAGCTACATCACCAACCTGGGCCTTTCAGCCTGGTGTCTTCTGTTCAACATGGCCATGCT
 AGCCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGGTCACATGTGCTGACACTG
 CTGGGCCTCAGCCTGGTCTTGGCCTGCCTGGGCCTTGATCTTCTTCTCCTTGTCTTGGCACCTTCC
 AGCTTGTGCTCTACCTTTTTCAGCATCATCACCTCCTTCCAAGGCTTCTCATCTTATCTGGTACTG
 GTCCATGCGGCTGCAGGCCCGGGTGGCCCTCCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCC
 ATCAGCTCGGGCAGCACCTCGTCCAGCCGCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226832 protein sequence
Red=Cloning site Green=Tags(s)

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X*LPSRCCRRHCSC*VCSSWSKVPTAGATGKTFASAASGTRHTGAASTTNPHQTCASPSRTPKRPSQSMP
LSLQPTLLPDPSTLTPGASTTSASTGTDMLGDYIFSMASVTSC*VTKPLASSASSTRRRRAWLRAPRC*PLL
SPPGGALRTSACPVPASPSPSTVLPTRPLTMPRWTCASSKGTSSCSASS*SIPRRPQGGPRLPPPASSC
RAWSRN*PL*DSWGTWCPSTRRTGSTPRCGSSSQPASRTCTSTPGRRRRSRARSWSTRCCCLEHSSRGRKA
GGRLRRDSSWWTSAAKPCSRTRIPAKSWVRRSWGLWYRTPK*PTSRSPWCSPSSTYSRRM*LCNVCSG
LKTPH*AARGIGAVLGVRPSGEKPKHPASATT*PTLQC*WSPRWRTPTCTST*ASSPTWAVSSLPWPAL
SPLPPTSAPGGNLGTTPSRCT*TCCWPSSCWTRASCASRWP*QALRLAAEPVPSCTSPCSPAFIGWAS
RGTTSTDSWWSLAPMSLATYSS*APWAGASPSFW*RWWPWWMTTMAPSSWLCIGLQRASSTLPCAGSG
TPWATSPTWASSAWFCSTWPC*PPWWCRSCGCAPTPKSGHMC*HCWASAWSLACPGP*SSSPLLLAPS
SLSSSTFSASSPPSKASSSSSGTGPCGCRPGVAPPL*RATQTAPGSPSARAAPRPA
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145770

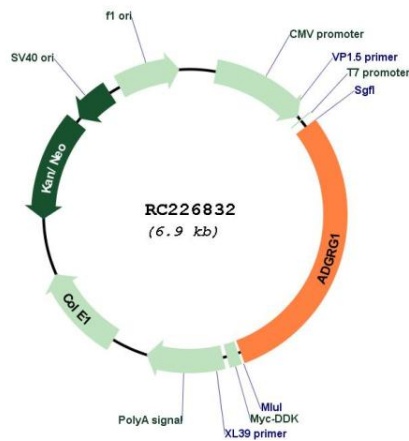
ORF Size: 2061 bp

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.

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| 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_001145770.3</u> |
| RefSeq Size: | 3813 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: | 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 RC226832