

Product datasheet for **RC226955**

GPR56 (ADGRG1) (NM_001145774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_001145774) 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:**

>RC226955 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTGC
 CCACGGCAGGGCCACAGGGAAGACTTTTCGCTTCTGCAGCCAGCGGAACCAGACACAGGAGCAGCCTC
 CACTACAAACCCACACCAGACTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCC
 CTTTCCCTGCAGCCACCCTGCTTCCCGATCCTTCCCTGACCCAGGGGCTCTACCCTTCTGCCTCTA
 CTGGAACCGACATGCTGGGAGATTACATCTTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCC
 TCTAGCCTCCTGCTTCCAGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGTGTAGCCACTTCTG
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 GAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTTCCAGAGGACGAAAGGCC
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 ATCAGCTCGGGCAGCACCTCGTCCAGCCGCATC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC226955 protein sequence
Red=Cloning site Green=Tags(s)

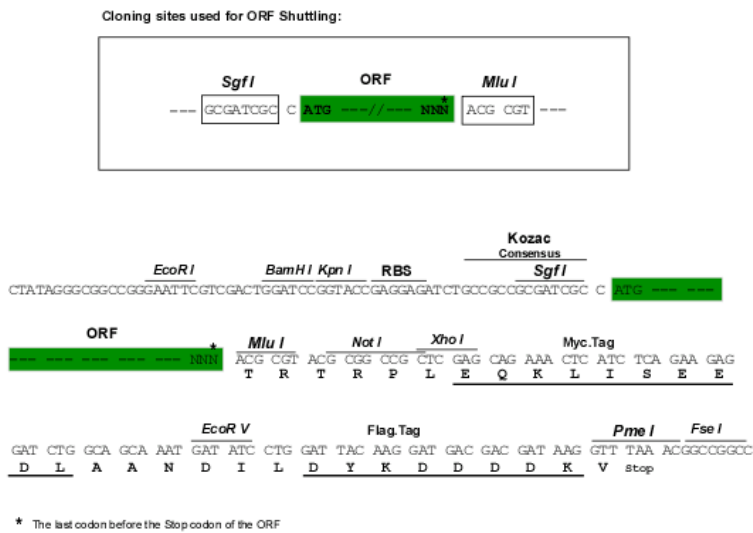
X*LPSRCCRRHCSC*VCSSWSKVPTAGATGKTFASAASGTRHTGAASTTNPHQTCASPSRTPKRPSQSMP
 LSLQPTLLPDPSTLTPGASTTSASTGTDMLGDYIFSMASVTSC*VTKPLASSASSTRRRRAWLRAPRC*PLL
 SPPGGALRTSACPVPPASPSSTVLPTRPLTMPRWTCASSKGTSSCSASS*SIPRRPQGGPRLPPPASSC
 RAWSRN*PL*DSWGTWCPSSRRTGSTPRCGSSSQPASRTCTSTPGRRRSRARSWSTRCCCLEHSSRGRKA
 GGGRLRRDSSWWTSAAKPCSRTRIPAKSWVRRSWGLWYRTPK*PTSRSPWCSPSSTSYSRRM*LCNVCSG
 LKTPH*AARGIGAVLGVRPSGEKPKHPASATT*PTLQC*WSPRWRWTPCTSTT*ASSPTWAVSSLPWPAL
 SPLPPTSAPGGNLGTTPSRCT*TCCWPSSCWTRASCASRWP*QALRLAAEPVPSCTSPCSPAFIGWAS
 RGTSTDSWWSLAPMSLATYSS*APWAGASPSFW*RWWPWWMTTMAPSSWLCIGLQRASSTLPCAGSG
 TPWATSPTWASSAWFCSTWPC*PPWWCRSCGCAPTPKSGHMC*HCWASAWSLACPGP*SSSPLLLAPS
 SLSSSTFSASSPPSKASSSSSGTGPCGCRPGVAPPL*RATQTAPGSPSARAAPRPA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145774

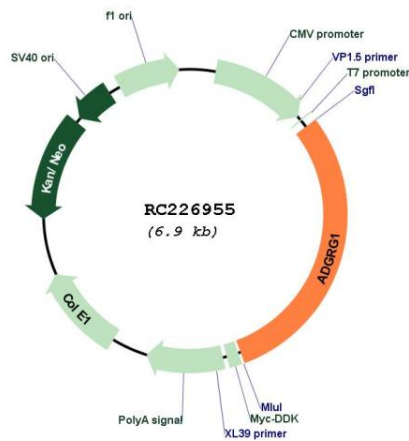
ORF Size: 2061 bp

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_001145774.3</u>
RefSeq Size:	4050 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 RC226955