

Product datasheet for **RC238710**

GPR56 (ADGRG1) (NM_001290142) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_001290142) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADGRG1
Synonyms:	BFPP; BPPR; GPR56; TM7LN4; TM7XN1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC238710 representing NM_001290142
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTCTGCTGAGTCTGCTCTTCTGGTCCAAGGTGCC
 ACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGAC
 CTCTGTGAGATTCATGGGGGACATGGTGTCTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTC
 CAGCCACAGCCGGCCTCCAGGACCTGCACATCCACTCCCGCAGGAGGAGGAGCAGAGCGAGATCATGG
 AGTACTCGGTGCTGCTGCCTCGAACACTTCCAGAGGACGAAAGGCCGGAGCGGGGAGGCTGAGAAGAG
 ACTCTCTGGTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAATTCAGCCAAGTCTGGGTGAG
 AAGGTCTGGGGATTGTGGTACAGAACACCAAAGTAGCCAACCTCACGGAGCCCGTGGTCTCACTTTCC
 AGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTCTGGGTTGAAGACCCACATTGAGCAG
 CCCGGGCATTGGAGCAGTGTGGTGTGAGACCGTCAGGAGAGAAACCCAAACATCCTGCTTCTGCAAC
 CACTTGACCTACTTTGCAGTGTGATGGTCTCCTCGGTGGAGGTGGACGCCGTGACAAGCACTACCTGA
 GCCTCCTCTCCTACGTGGGCTGTGTCGTCTCGCCCTGGCCTGCCTTGTCAACATTGCCGCTACCTCTG
 CTCCAGGGTGCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGAACCTGCTG
 CTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGGCTG
 GCTGCCGAGCCAGTGCCATCTTCTGCACCTTCCCTGCTCACCTGCCTTCTGGATGGCCCTCGAGGG
 GTACAACCTTACCGACTCGTGGTGGAGGCTTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGAGC
 GCCATGGGCTGGGGCTTCCCATCTTCTGGTACGCTGGTGGCCCTGGTGGATGTGGACAACATAGGCC
 CCATCATCTTGGCTGTGCATAGGACTCCAGAGGGCGTCATCACCTTCCATGTGCTGGATCCGGGACTC
 CCTGGTCAGCTACATACCAACCTGGCCCTCTTACGCTGGTGTCTGTTCATCAACATGGCCATGCTAGCC
 ACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGGTACATGTGCTGACACTGCTGG
 GCCTCAGCCTGGTCTTGGCCTGCCCTGGGCTTGTCTTCTCTCTTCTGCTTCTGGCACCTTCCAGCT
 TGTGCTCTCTACCTTTTCCAGCATCATCACCTCCTTCCAAGGCTTCTCATCTTCTGCTGGTACTGGTCC
 ATGCGGCTGCAGGCCGGGGTGGCCCTCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCATCA
 GCTCGGGCAGCACCTCGTCCAGCCGCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238710 representing NM_001290142
 Red=Cloning site Green=Tags(s)

MTPQSLQLTTLFLLSLLFLVQGAHGRGHREDFRCSQQLQSLESKLTSVRFMGDMVSFEEDRINATVWKL
 QPTAGLQDLHIHSRQEEEQSEIMEYSVLLPRTLFRQTKGRSGEAEKRLLLVDFSSQALFQDNSSQVLGE
 KVLGIVVQNTKVANLTPVVLTFOHQLQPKNVTLCVFWVEDPTLSSPGHWSSAGCETVRRETQTSFCFN
 HLTYFAVLMVSSVEVDVHKHYLSLLSYGCVVSALACLVTIAAYLCSRVPPLPCRRKPRDYTIKVMNLL
 LAVFLLDTSFLLSEPVALTGSEAGCRASAIPLHFSLTCLSWMGLEGYNLYRLVVEVFGTYVPGYLLKLS
 AMGWGFPVFLVTLVALVDVNYGPIILAVHRTPEGVIYPSMCWIRDSLVSYITNLGLFSLVFLFNMAMLA
 TMVVQILRLRPHTQKWSHVLTLGLSLVGLPWALIFFSFASGTFQLVVLVYLSIITSFQGLFIWIWWS
 MRLQARGGPSPLKSNDSARLPISSGSTSSSRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

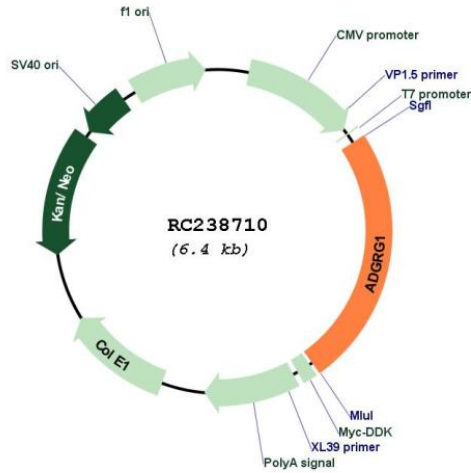
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001290142
ORF Size:	1569 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:	NM_001290142.2
RefSeq Size:	3371 bp
RefSeq ORF:	1572 bp
Locus ID:	9289
UniProt ID:	Q9Y653
Cytogenetics:	16q21
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	59.1 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]