

Product datasheet for **RG219538**

GPR56 (ADGRG1) (NM_201525) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_201525) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR56
Synonyms:	BFPP; BPPR; GPR56; TM7LN4; TM7XN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG219538 representing NM_201525
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCTCTGCTGAGTCTGCTCTTCCTGGTCCAAGGTGCC
 ACGGCAGGGGCCACAGGGAAGACTTTCGTTCTGCAGCCAGCGGAACCAGACACACAGGAGCAGCCTCCA
 CTACAAACCCACACCAGACCTGCCATCTCCATCGAGAATCCGAAGAGGCCCTCACAGTCCATGCCCT
 TTCCCTGCAGCCACCCTGCTTCCCGATCCTTCCTGACCCAGGGGCCTCTACCACTTCTGCCTTACT
 GGAACCGACATGCTGGGAGATTACATCTTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTC
 TAGCTCCTCTGCTTCCAGCACCAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACTTCTGTC
 ACCTCCTGGTGGAGCCCTCAGAACATCAGCCTGCCAGTGCCGCCAGTTACCTTCTCCTCCACAGTC
 CTCACACACGGCCGCTCACAATGCCTCGGTGGACATGTGCGAGCTCAAAGGGACCTCCAGCTGCTCAG
 CCAGTTCTGAAGCATCCCCAGAAGGCCCAAGGAGGCCCTCGGCTGCCCGCCAGCCAGCAGTTGCAG
 AGCCTGGAGTCGAAACTGACCTCTGTGAGATTCATGGGGGACATGGTGTCTTCGAGGAGACCGGATCA
 ACGCCACGGTGTGGAAGCTCCAGCCACAGCCGGCCTCCAGGACCTGCACATCCACTCCCGGCAGGAGGA
 GGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACACTCTTCAGAGGACGAAAGGCCGG
 AGCGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTACAGCAGCAAGCCCTGTTCCAGGACAAGAATT
 CCAGCCAAGTCTGGGTGAGAAGTCTTGGGGATTGTGGTACAGAACACCAAAGTAGCCAACCTCACGGA
 GCCCGTGGTGTCACTTCCAGCACCAGCTACAGCCGAAGAATGTGACTTGCAATGTGTGTTCTGGGTT
 GAAGACCCACATTGAGCAGCCCGGGCATTGGAGCAGTGTGGTGTGAGACCGTCAGGAGAGAAACCC
 AAACATCCTGCTTCTGCAACCATTGACCTACTTGCAGTGTGATGGTCTCCTCGGTGGAGGTGGACGC
 CGTGCACAAGCACTACCTGAGCCTCCTCCTACGTGGGCTGTGTCGTCCTGCCCTGGCCTGCCTTGTG
 ACCATTGCCGCCTACCTCTGCTCCAGGAGAAACCTCGGGACTACACCATCAAGGTGCACATGAACCTGC
 TGCTGGCCGCTTCTCTGCTGGACACGAGTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGGC
 TGGCTGCCGAGCCAGTGCATCTTCTGCACCTTCTCCTGCTCACCTGCCTTTCCTGGATGGGCCTCGAG
 GGGTACAACCTTACCGACTCGTGGTGGAGTCTTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGA
 GCGCCATGGGCTGGGCTTCCCCATCTTCTGGTACGCTGGTGGCCCTGGTGGATGTGGACAACATATGG
 CCCCATCATCTTGCTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTCCATGTGCTGGATCCGGGAC
 TCCCTGGTCAGTACATACCAACCTGGGCCTTTCAGCCTGGTGTCTTCTGTTCAACATGGCCATGCTAG
 CCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGGTCACATGTGCTGACACTGCT
 GGGCCTCAGCCTGGTCTTGGCCTGCCCTGGGCCTTGATCTTCTCCTTTGCTTCTGGCACCTCCAG
 CTTGTCGTCCTCTACCTTTTCAGCATCATCACCTCCTTCCAAGGCTTCTCATCTTCATCTGGTACTGGT
 CCATGCGGCTGCAGGCCCGGGTGGCCCTCCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTCCCCAT
 CAGCTCGGGCAGCACCTCGTCCAGCCGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219538 representing NM_201525
Red=Cloning site Green=Tags(s)

MTPQSLQTTLLFLLSLLFLVQGAHGRGHREDFRFSQNRNQTHRSSLHYKPTDRLRISIENSEEALTVHAP
 FPAAHPASRSFPDPRGLYHFCLYWNRHAGRLHLLYGKRDFLSDKASSLLCFQHQEESLAQGPPLLATSV
 TSWWSPQNI SLPSAASF TFSFHSPHTAAHNASVDMCELKRDQLLSQFLKHPQKASRRPSAAPASQQLQ
 SLESKLT SVRFMGDMVSFEEDRINATVWKLQPTAGLQDLHIHSRQEEEQSEIMEYSVLLPRTLFRQTKGR
 SGAEAKRLLL VDFSSQALFQDKNSSQVLGEKVLGI VVQNTKVANLTPVVLT FQHQLQPKNVTLQC VFW
 EDPTLSSPGHWSSAGCETVRRETQTSCFCNHLTYFAVLMVSSVEVDVAVHKHYLSLLSYVGCVVSAALCLV
 TIAAYLCSRRKPRDYTIKVMNLLLAVFLLDTSFLLSEPVALTGSEAGCRASAI FLHFSLLTCLSWMGLE
 GYNLYRLVVEVFGTYVPGYLLKLSAMGWGFP IFLVTLVALVDVDNYGPIILAVHRTPEGVIYPSMCWIRD
 SLVSYITNLGLFSLVFLNMAMLATMVVQILRLRPHTQKWSHVL TLLGLSLVLGLPWALIFFSFASGTFFQ
 LVVLYLFSIITSFQGLIFIWYSMRLQARGGPSPLKSNSDSARLPISSGSTSSSRI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_201525

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:

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_201525.4](#)

RefSeq Size: 3860 bp

RefSeq ORF: 2064 bp

Locus ID: 9289

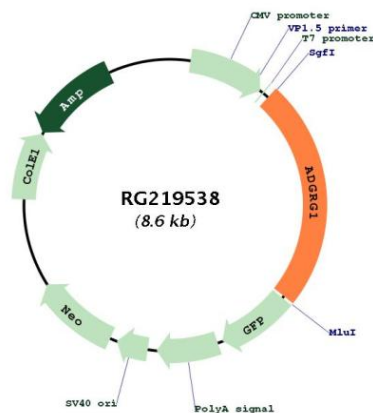
UniProt ID: [Q9Y653](#)

Cytogenetics: 16q21

Protein Families: Druggable Genome, GPCR, Transmembrane

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 RG219538