

Product datasheet for **RG238710**

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:	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:

>RG238710 representing NM_001290142.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACTCCCAGTCGCTGCTGCAGACGACACTGTTCTGCTGAGTCTGCTCTTCCTGGTCCAAGGTGCC
CACGGCAGGGGCCACAGGAAGACTTTCGCTTCTGCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTG
ACCTCTGTGAGATTATGGGGGACATGGTGTCTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAG
CTCCAGCCACAGCCGGCCTCCAGGACCTGCACATCCACTCCCGCAGGAGGAGGAGCAGAGCGAGATC
ATGGAGTACTCGGTGCTGCTGCCTCGAACACTCTCCAGAGGACGAAAGGCCGGAGCGGGGAGGCTGAG
AAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAATCCAGCCAAGTCTG
GGTGAGAAGGTCTTGGGATTGTGGTACAGAACACAAAGTAGCCAACCTCACGGAGCCCGTGGTGTCTC
ACTTCCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGTTCTGGGTTGAAGACCCACA
TTGAGCAGCCCGGGCATTGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAACCCAAACATCCTGC
TTCTGCAACCACTTGACCTACTTTCAGTGTGATGGTCTCCTCGGTGGAGGTGGACGCCGTGCACAAG
CACTACCTGAGCCTCCTCCTACGTGGCTGTGTGCTCTGCCCTGGCCTGCCTGTACACATTGCC
GCCTACCTCTGCTCCAGGTGCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCAC
ATGAACCTGCTGCTGGCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACA
GGCTCTGAGGCTGGTGGCAGCCAGTGCCATCTTCTGCACTTCTCCCTGCTCACCTGCCTTCTCTGG
ATGGGCCCTCGAGGGGTACAACCTTACCAGACTCGTGGTGGAGGTCTTGGCACATATGTCCTGGCTAC
CTACTCAAGCTGAGGCCATGGGCTGGGCTTCCCATCTTCTGGTACGCTGGTGGCCCTGGTGGAT
GTGGACAACATGGCCCCATCATTTGGCTGTGCATAGGACTCCAGAGGGCGTCATACCTTCCATG
TGCTGGATCCGGACTCCCTGGTACATACCAACCTGGGCTCTTTCAGCCTGGTGTTCGTTCTGTTT
AACATGGCCATGCTAGCCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAAGTGGTCA
CATGTGCTGACTGCTGGGCTCAGCCTGGTCTTGGCCTGCCCTGGGCTTGTCTTCTCTCTTT
GCTTCTGGCACCTTCCAGCTTGTGCTCCTACCTTTTTCAGCATCATCACCTCCTCCAAGGCTTCTC
ATCTTCTGCTGACTGGTCCATGCGGCTGCAGGCCCGGGTGGCCCTCCCTCTGAAGAGCAACTCA
GACAGCGCCAGGCTCCCATCAGCTCGGGCAGCACCTCGTCCAGCCGCATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238710
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTPQSLQTTFLFLLSLLFLVQGAHGRGHREDFRCSQQLQSLESKLTSVRFMGDMVSFEEDRINATVWK
LQPTAGLQDLHIHSRQEEEQSEIMEYSVLLPRTLFRQTKGRSGEAEKRLLLVDFSSQALFQDKNSSQVL
GEKVLGI VVQNTKVANL TEPVVLTFQHQLQPKNVTLCQVFWVEDPTLSSPGHWSSAGCETVRRETQTS
FCNHLTYFAVLMVSSVEVDAVHKHYLSLLSYGCVVSALACLVTIAAYLCSRVLPCRPRDYTIKVVH
MNNLLAVFLLDTSFLLSEPVALTGSEAGCRASIFLHFLLTCLSWMGLEGYNLYRLVVEVFGTYVPGY
LLKLSAMGWGFPVFLVTLVALVDVDNYGPIILAVHRTPEGVIYPSMCWIRDSLVSYITNLGLFSLVFLF
NMAMLATMVVQILRLRPHTQKWSHVLTLGLSLVGLPWALIFFSFASGTFQLVVLVLFISIISFQGL
FIWIWMSMLQARGGPSPLKNSDSARLPISSGSTSSRI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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).

RefSeq: [NM_001290142.2](#)

RefSeq Size: 3371 bp

RefSeq ORF: 1572 bp

Locus ID: 9289

UniProt ID: [Q9Y653](#)

Cytogenetics: 16q21

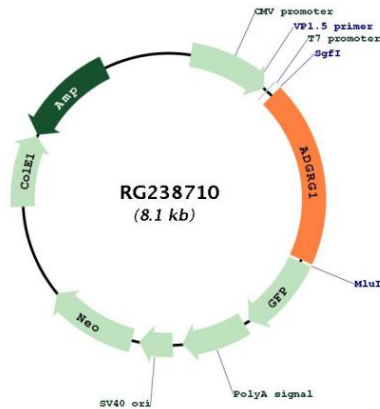
Protein Families: Druggable Genome, GPCR, Transmembrane

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]

Product images:



Circular map for RG238710