

## Product datasheet for **RG238688**

### **GPR56 (ADGRG1) (NM\_001290143) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_001290143) 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:**

>RG238688 representing NM\_001290143.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGCGAGCTCAAAGGGACCTCCAGCTGCTCAGCCAGTTCTGAAGCATCCCCAGAAGGCCTCAAGG
AGGCCCTCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTC
ATGGGGGACATGGTGTCTTCGAGGAGGACCGGATCAACGCCACGGTGTGAAGCTCCAGCCACAGCC
GGCTCCAGGACCTGCACATCCACTCCCGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTG
CTGCTGCCTCGAACACTTCCAGAGGACGAAAGGCCGGAGCGGGGAGGCTGAGAAGAGACTCCTCTG
GTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAATTCCAGCCAAGTCTGGGTGAGAAGGTCTTG
GGGATTGTGTACAGAACACCAAAGTAGCCAACCTCACGGAGCCCGTGGTGTCACTTTCCAGCACCAG
CTACAGCCGAAGAATGTACTCTGCAATGTGTCTGGGTTGAAGACCCACATTGAGCAGCCCGGGG
CATTGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAACCAAACATCCTGCTTCTGCAACCCTTG
ACCTACTTTGAGTGTGATGGTCTCCTCGGTGGAGGTGGACCGGTGCACAAGCACTACCTGAGCCTC
CTCTCCTACGTGGGCTGTGCTGCTCTGCCCTGGCCTGCCTTGTACCATTGCCGCTACCTCTGCTCC
AGGGTGCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGAACCTGCTGCTG
GCCGTCTTCTGCTGGACACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGGCTGGC
TGCCGAGCCAGTGCCATCTTCTGCACTTCTCCCTGCTCACCTGCCTTTCTGGATGGGCCTCGAGGGG
TACAACCTTACCAGACTCGTGGTGGAGGTCTTTGGCACATATGTCCTGGCTACCTACTCAAGCTGAGC
GCCATGGGCTGGGCTTCCCATCTTTCTGGTACGCTGGTGGCCCTGGTGGATGGACAACATATGGC
CCCATCATTTGGCTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGGGAC
TCCCTGGTCAGCTACATACCAACCTGGGCTCTTCAGCCTGGTGTCTTCTGTTCAACATGGCCATGCTA
GCCACCATGGTGGTGCAGATCCTGCGGCTGCGCCCCACACCCAAAGTGGTACATGTGCTGACACTG
CTGGGCTCAGCCTGGTCTTGGCTGCCTGGGCTTGTCTTCTCCTTTGCTTCTGGCACCTTC
CAGCTTGTGCTCTACCTTTTCAGCATCATCACCTCCTTCCAAGGCTTCTCATCTTCTGTTAC
TGGTCCATGCGGCTGCAGGCCGGGGTGGCCCTCCCCTCTGAAGAGCAACTCAGACAGCGCCAGGCTC
CCCATCAGCTCGGGCAGCACCTCGTCCAGCCGCATC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

**Protein Sequence:**

>Peptide sequence encoded by RG238688  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MCELKRDQLLSQFLKHPQKASRRPSAAPASQQLQSLESKLTSVRFMGDMVSFEEDRINATVWKLQPTA
GLQDLHIHSRQEEEQSEIMEYSVLLPRTLFRQTKGRSGEAEKRLLLVDFSSQALFQDKNSSQVLGEKVL
GIVVQNTKVANL TEPVVLTFQHQLQPKNVTLQCVFVEDPTLSSPGHWSSAGCETVRRETQTSFCFNHL
TYFAVLVSSVEVDVAVHKHYLSLLSYGCVVSALACLVTIAAYLCSRVP LPCRKRPRDYTIKVHMLLL
AVFLLDTSFLLSEPVALTGSEAGCRASAI FLHF SLLTCLSWMGLEGYNLYRLVVEVFGTYVPGYLLKLS
AMGWGFPIFLVTLVALVDVDNYGPIILAVHRTPEGVIYPSMCWIRDSLVSYITNLGLFSLVLFNMAML
ATMVVQILRLRPHTQKWSHVL TLLGLSLVLGLPWALIFFSFASGTFLVVLVLFISIISFQGLFIWIY
WSMRLQARGGPSPLKNSDSARLPISSGSTSSSRI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001290143

**ORF Size:** 1554 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\\_001290143.2](#)

**RefSeq Size:** 3720 bp

**RefSeq ORF:** 1557 bp

**Locus ID:** 9289

**UniProt ID:** [Q9Y653](#)

**Cytogenetics:** 16q21

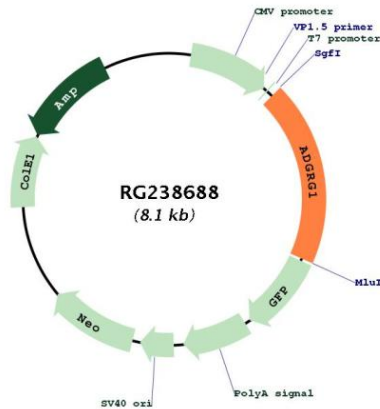
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**MW:** 58.5 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 RG238688