

Product datasheet for **RG238648**

GPR56 (ADGRG1) (NM_001290144) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR56 (ADGRG1) (NM_001290144) 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:

>RG238648 representing NM_001290144.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTGCGAGCTCAAAGGGACCTCCAGCTGCTCAGCCAGTTCTGAAGCATCCCCAGAAGGCCTCAAGG
AGGCCCTCGGCTGCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTTC
ATGGGGGACATGGTGTCCCTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTCCAGCCACAGCC
GGCTCCAGGACCTGCACATCCACTCCCGGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTG
CTGCTGCCTCGAACACTTTCCAGAGGACGAAAGGCCGGAGCGGGGAGGCTGAGAAGAGACTCCTCTG
GTGGACTTCAGCAGCCAAGCCCTGTTCCAGGACAAGAATTCCAGCCAAGTCTGGGTGAGAAGGTCTTG
GGGATTGTGTACAGAACACCAAAGTAGCCAACCTCACGGAGCCCGTGGTGTCTACTTTCCAGCACCAG
CTACAGCCGAAGAATGTACTCTGCAATGTGTCTGGGTTGAAGACCCACATTGAGCAGCCCGGGG
CATTGGAGCAGTGTGGGTGTGAGACCGTCAGGAGAGAAACCAAACATCCTGCTTCTGCAACCCTTG
ACCTACTTTGAGTGTGATGGTCTCCTCGGTGGAGGTGGACCGCTGCACAAGCACTACCTGAGCCTC
CTCTCCTACGTGGGCTGTGTCGTCTCGCCTGGCCTGCCTTGTACCATTGCCGCTACCTCTGCTCC
AGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGAACCTGCTGCTGGCCGCTTCTCTGCTGGAC
ACGAGCTTCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGGCTGGCTGCCGAGCCAGTGCCATC
TTCTGCACTTCTCCCTGCTCACCTGCCTTCTCGGATGGGCCTCGAGGGGTACAACCTCTACCGACTC
GTGGTGGAGGTCTTTGGCACATATGTCCTGGCTACCTACTCAAGCTGAGCGCCATGGGCTGGGGCTTC
CCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACTATGGCCCCATCATTTGGCTGTG
CATAGGACTCCAGAGGGCGTCACTACCCTTCCATGTGCTGGATCCGGGACTCCCTGGTCACTACATC
ACCAACTGGGCCTCTTACGCTGGTGTCTGTTCAACATGGCCATGCTAGCCACCATGGTGGTGCAG
ATCCTGCGGCTGCGCCCCACACCCAAAAGTGGTACATGTGCTGACACTGCTGGCCTCAGCCTGGTC
CTTGGCCTGCCCTGGCCTTGATCTTCTCCTTTGCTTCTGGCACCTCCAGCTTGTGCTCCTCTAC
CTTTTCAGCATCATCACCTCCTTCCAAGCTTCTCATCTTCTGTTACTGGTCCATGCGGCTGCAG
GCCCGGGTGGCCCTCCCTCTGAAGGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGC
ACCTCGTCCAGCCGCATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238648
 Blue=ORF Red=Cloning site Green=Tag(s)

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MCELKRDQLLSQFLKHPQKASRRPSAAPASQQLQSLESKLTSVRFMGDMVSFEEDRINATVWKLQPTA
GLQDLHIHSRQEEEQSEIMEYSVLLPRTLFRQTKGRSGEAEKRLLLVDFSSQALFQDKNSSQVLGEKVL
GIVVQNTKVANL TEPVVLTFQHQLQPKNVTLQCVFVEDPTLSSPGHWSSAGCETVRRETQTSFCFNHL
TYFAVLVMSVSEVDVAVHKHYLSLLSYVGCVVSAACLVIAAYLCSRRKPRDYTIKVMNLLLAFLLD
TSFLLSEPVALTGSEAGCRASAIFLHFLLTCLSWMGLEGYNLYRLVVEVFGTYVPGYLLKLSAMGWGF
PIFLVTLVALVDVDNYGPIILAVHRTPEGVIYPSMCWIRDSLVSYITNLGLFSLVFLFNAMLATMVVQ
ILRLRPHTQKWSHVLTLGLSLVGLPWALIFFSFASGTFQLVVLVYLSIITSFQGFLIFIWYWSMLRQ
ARGGPSPLKSNDSARLPISSGSTSSRI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
```

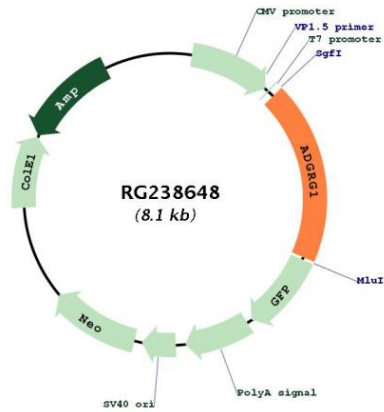
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


- ACCN:** NM_001290144
- ORF Size:** 1536 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_001290144.2](#)
- RefSeq Size:** 3889 bp
- RefSeq ORF:** 1539 bp
- Locus ID:** 9289
- Cytogenetics:** 16q21
- Protein Families:** Druggable Genome, GPCR, Transmembrane
- MW:** 57.8 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 RG238648