

Product datasheet for **RG218674**

GPR111 (ADGRF2) (NM_153839) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR111 (ADGRF2) (NM_153839) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR111
Synonyms:	GPR111; hGPCR35; PGR20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218674 representing NM_153839
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGACTCATATACTTTTGTGTACTACTTGGTGTTCCTTTGCCACAGAGTCCTGTAGGACATTGTATC
 AGGCTGCAAGCAAAAGCAAGGAGAAGGTGCCTGCCAGGCCACACGGTGTATGCGATGGTGTCTGTACAGA
 CTAATCCCACTGTACTCAACCTTGCCCTCCAGACACTCAGGGAATATGGGGTTTTCATGCAGGCAAAAG
 ACATGGCACAAGATCACTGACACCTGCCAGACTCTTAATGCCCTCAACATCTTTGAGGAGGATTCACGTT
 TGGTTCAGCCATTTGAAGACAATATAAAATAAGTGTATATACTGGAAAGTCTGAGACCATAACAGATAT
 GTTGCTACAAAAGTGTCCACAGATCTGTCTGTGTAAATTAGAAACATTCAGCAGTCTCCCTGGATACCA
 GGAAACATTGCCGTAATTGTGCAGCTCTTACACAACATATCAACAGCAATATGGACAGGTGTTGATGAGG
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 CATTCTGACAGAAACAGCAGCTATATCCTGCTACATTCACTCACTCTTTGCAAGAAGGCTATTGATA
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 TGGCTGGCACTCTGTGGAGAACAGATGGGACCAGCAGGCTGCAAAATGATTCAAGAAACTCCAGCAA
 GCTGTTTGCAATGTAGGCCAAGCAATGTTTACCTCTTCTCAATTCTTATGTCACCTCACATCTTAG
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 CTGAACCTGGCAAAGGCTATCTACGACCTGAGATCTGCTGGCTCACTGGGACATGACCAAGCCCTCT
 GGCTTCTGTATCCAGCTTTGGCCATCGTGGTAGTAAACCTGATCACAGTCACACTGGTATTGTCAAG
 ACCCAGCGAGCTGCCATTGGCAATTCATGTTCCAGGAAGTGAAGCCATTGTGAGAATCAGCAAGAACA
 TCGCCATCTCACACCACTTCTGGGACTGACCTGGGGATTGGAGTAGCCACTGTCATCGATGACAGATC
 CCTGGCCTTCCACATTATCTTCTCCCTGCTCAATGCATTCCAGGGTTTCTTCATCTAGTGTGTTGAACC
 ATCCTGGATCCAAAGATAAGAGAAGCCTTAAAGGGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

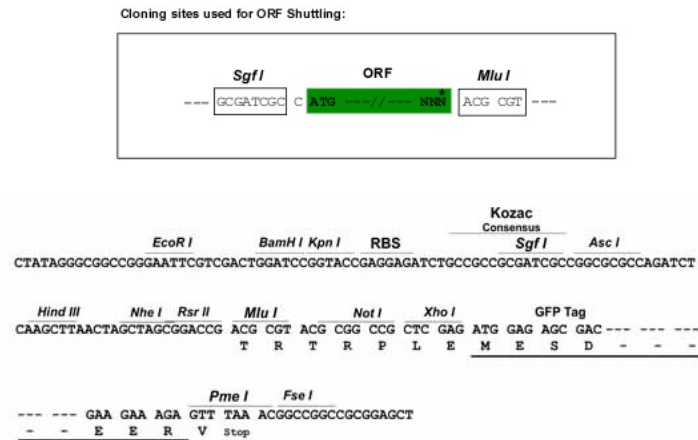
>RG218674 representing NM_153839
 Red=Cloning site Green=Tags(s)

MTHILLYYLVFLLPTESCRTRYQAASKSKEKVPARPHGVCDGVCTDYSQCTQPCPDTQGNMGFSCRQK
 TWHKITDTCQTLNALNIFEEDSRLVQPFEDNIKISVYTGKSETITDMLLQKCPDLSVIRNIQQSPWIP
 GNIAVIVQLLHNISTAIWTVDEAKMQSYSTIANHILNSKISNWFIPDRNSSYILLHSVNSFARRLF
 DKHPVDISDVFIHTMGTTISGDNIGKNFTFSMRINDTSNEVTGRVLISRDELKVPSPSQVISIAFPTIG
 AILEASLLENVTNGLVLSAILPKELKRISLIFEKISKSEERRTQCVGWHSVENRWDQACKMIQENSQQ
 AVCKCRPSKLFSTFSILMSPHILESILTYITYVGLGISICSLILCLSIEVLVWSQVTKTEITYLRHVCI
 VNIAATLLMADVWFIVASFSGPIITHKGCVAATFFVHFFYLSVFFWMLAKALLILYGIMIVFHTLPKSV
 LVASLFSVGYGCPAIAAITVAATEPGKYLRLPEICWLNWDMTKALLAFVIPALAIVVVNILITVTLVIVK
 TQRAAIGNSMFQEVRAIVRISKNIAILPLLLGWGFGVATVIDDRSLAFHIIIFSLNFAQGFILVFGT
 ILDPKIREALKG

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153839

ORF Size: 1926 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_153839.7](#)

RefSeq Size: 5135 bp

RefSeq ORF: 1929 bp

Locus ID: 222611

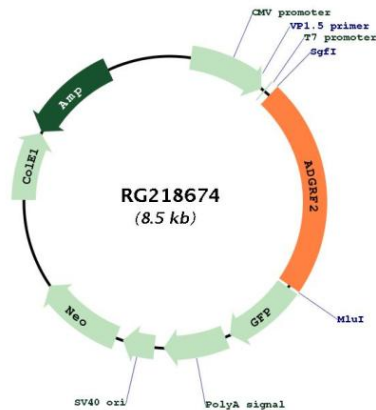
UniProt ID: [Q8IZF7](#)

Cytogenetics: 6p12.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Orphan receptor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218674