

Product datasheet for **RG221173**

GPRC5C (NM_018653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRC5C (NM_018653) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPRC5C
Synonyms:	RAIG-3; RAIG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221173 representing NM_018653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGACCCAACCAGAGCCTGGCCTGGGAGCCAGGATGGCCATCCACAAAGCCTTGGTGTGTGCCTGG
 GACTGCCTCTCTTCTGTCCAGGGCCCTGGGCCAGGGCCATGTCCACCCGGCTGCAGCCAAGGCCT
 CAACCCCTGTACTACAACCTGTGTGACCGCTCTGGGGCTGGGGCATCGTCCTGGAGGCCGTGGCTGGG
 GCGGGCATTGTCACCACGTTTGTGCTCACCATCATCTGGTGGCCAGCCTCCCCTTTGTGCAGGACCA
 AGAAACGGAGCCTGCTGGGACCCAGGTATTCTTCTTCTGGGGACCCTGGGCCTCTTCTGCCTCGTGT
 TGCCTGTGTGGTGAAGCCCGACTTCTCCACCTGTGCCTCTCGGCGCTTCTCTTTGGGGTCTGTTCCGC
 ATCTGCTTCTTGTCTGGCGGCTCACGCTTTGCCCTCAACTTCTGGCCCGGAAGAACCAGGGCCCC
 GGGGCTGGGTGATCTTCACTGTGGCTCTGCTGCTGACCCTGGTAGAGGTCATCATCAATACAGAGTGGCT
 GATCATACCCTGGTTCGGGGCAGTGGCGAGGGCGGCCCTCAGGGCAACAGCAGCGCAGGCTGGGCCGTG
 GCCTCCCCTGTGCCATCGCCAACATGGACTTTGTCATGGCACTCATCTACGTATGCTGCTGCTGCTGG
 GTGCCTTCTGGGGGCTGGCCCGCCTGTGTGGCCGCTACAAGCGCTGGCGTAAGCATGGGGTCTTTGT
 GCTCCTCACACAGCCACCTCCGTTGCCATATGGGTGGTGTGGATCGTATGTAATACTTACGGCAACAAG
 CAGCACAACAGTCCCACCTGGGATGACCCACGCTGGCCATCGCCCTCGCCGCAATGCCTGGGCCCTTCG
 TCCTCTTCTACGTATCCCCGAGGTCTCCAGGTGACCAAGTCCAGCCCAGAGCAAAGCTACCAGGGGA
 CATGTACCCACCCGGGGCGTGGGCTATGAGACCATCTGAAAGAGCAGAAGGGTACAGAGCATGTTCTGTG
 GAGAACAAGGCCTTTTCCATGGATGAGCCGTTGACAGTAAAGAGCCGGTGTACCATACAGCGGGTACA
 ATGGGCAGCTGCTGACCAGTGTGTACCAGCCACTGAGATGGCCCTGATGCACAAAGTTCGGTCCGAAGG
 AGCTTACGACATCATCTCCACGGGCCACCGCCAACAGCCAGGTGATGGGCAGTGCCAACCTCGACCCTG
 CGGGCTGAAGACATGTACTCGGCCAGAGCCACCAGGCGCCACACCGCCGAAAGACGGCAAGAACTCTC
 AGGTCTTTAGAAACCCTACGTGTGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221173 representing NM_018653
 Red=Cloning site Green=Tags(s)

MGTQPEPGLGARMIAHKALVMCLGLPLFLFPGAWAQGHVPPGCSQGLNPLYYNLCDRSGAWGIVLEAVAG
 AGIVTTFVLTIIILVASLFPVQDTKKRSLTGTQVFFLLGLLGLFCLVFACVVKPDFSTCASRRFLFGVLF
 ICFSCLAHVFLNFLARKNHGPRGWIFVALLLTLVEVIINTEWLIITLVRSGEGGPQGNSSAGWAV
 ASPCAIANMDFVMALIYVMLLLLGAFLGAWPALCGRYKRWKRGVFLVLLTTATSVAIWVWVIMYTYGNK
 QHNSPTWDDPTLAIALAANAWAFVLFYVIPEVSQVTKSSPEQSYQGDMPTRGVGYETILKEQKQSMFV
 ENKAFSMDPEVAAKRPVSPYSYNGQLLTSVYQPTMALMHKVPSEGAYDIILPRATANSQVMGSANSTL
 RAEDMYSAQSHQAATPPKDGKNSQVFRNPYVWD

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja3342_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_018653

ORF Size: 1359 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:

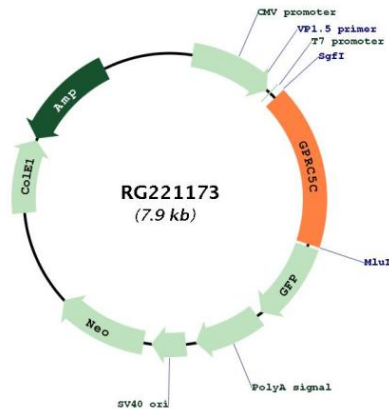
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_018653.3](#), [NP_061123.3](#)

RefSeq Size: 1836 bp
RefSeq ORF: 1326 bp
Locus ID: 55890
UniProt ID: [Q9NQ84](#)
Cytogenetics: 17q25.1
Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: The protein encoded by this gene is a member of the type 3 G protein-coupled receptor family. Members of this superfamily are characterized by a signature 7-transmembrane domain motif. The specific function of this protein is unknown; however, this protein may mediate the cellular effects of retinoic acid on the G protein signal transduction cascade. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG221173