

Product datasheet for **RC211081**

GPRC5C (NM_022036) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | GPRC5C (NM_022036) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | GPRC5C |
| Synonyms: | RAIG-3; RAIG3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC211081 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATCGGGGGCGTGGCAGTCAACAGCAACAACCCACACGCCGGCAGGGCCAGAACTCCCATCTCCCTCAC
 CAGCCGAAAGTACGAGTCGGCTCAGCCTGGAGGGACCAACCAGAGCCTGGCCTGGGAGCCAGGATGGC
 CATCCACAAAGCCTTGGTGATGTGCCTGGGACTGCCTCTCTTCTGTTCCAGGGCCTGGGCCAGGGC
 CATGTCCACCCGGCTGCAGCAAGGCCTCAACCCCTGTACTACAACCTGTGTGACCGCTCTGGGGCGT
 GGGGCATCGTCTGGAGGCCGTGGTGGGGCGGCATTGTACCACGTTTGTGCTACCATCATCTGGT
 GGCCAGCTCCCCTTTGTGCAGGACCAAGAAACGGAGCCTGCTGGGACCCAGGTATTCTTCTTCTG
 GGGACCTGGGCCTTCTGCCTCGTGTTCCTGTGTGGTGAAGCCGACTTCTCCACCTGTGCCTCTC
 GGCCTTCTCTTTGGGTTCTGTTCCCATCTGCTTCTTGTCTGGCGGCTCACGTCTTGGCCCTCAA
 CTTCTGGCCGGAAGAACCACGGGCCCGGGGCTGGGTGATCTTCACTGTGGCTCTGCTGTGACCTG
 GTAGAGGTCATCAATACAGAGTGGCTGATCATCACCTGGTTCGGGGCAGTGGCGAGGGCGGCCCTC
 AGGGCAACAGCAGCGCAGGCTGGGCCGTGGCCTCCCCCTGTGCCATCGCCAACATGGACTTTGTCATGGC
 ACTCATCTACGTCATGCTGCTGCTGGTGCCTTCTGGGGCCTGGCCCGCCCTGTGTGGCCGTAC
 AAGCGTGGCGTAAGCATGGGGTCTTTGTGCTCCTCACACAGCCACCTCCGTTGCCATATGGTGGTGT
 GGATCGTCATGTACTTACGGCAACAAGCAGCACAACAGTCCCACCTGGGATGACCCACGCTGGCCAT
 CGCCCTCGCCCAATGCCTGGGCCTTCGTCCTTCTACGTCATCCCGAGGCTCCCAGGTGACCAAG
 TCCAGCCAGAGCAAAGTACCAGGGGACATGTACCCACCCGGGGCGTGGGCTATGAGACCCTCTGA
 AAGAGCAGAAGGTCAGAGCATGTTCTGGGAGAACAAGCCTTTCCATGGATGAGCCGTTGACGATAA
 GAGGCCGGTGTACCATACAGCGGGTACAATGGGCAGTGTGACCAAGTGTGACCAAGCCACTGAGATG
 GCCCTGATGCACAAAGTCCGTCCGAAGGAGCTTACGACATCATCTCCACGGGCCACGCCAACAGCC
 AGGTGATGGGCAGTGCCAACTCGACCCTGCGGGCTGAAGACATGTACTCGGCCAGAGCCACAGCGCGC
 CACACCGCGAAAGACGGCAAGAAGTCTCAGGTCTTTAGAAACCCTACGTGTGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211081 protein sequence
 Red=Cloning site Green=Tags(s)

MRGRGSQQQPTRRQGGKLPSPSPAGKYESAQPGGTQPEPGLGARMIAHKALVMCLGLPLFLFPGAWAQG
 HVPPGCSQGLNPLYNLCDRSGAWGIVLEAVAGAGIVTTFVLTIIILVASLFPVQDTKKRSLGLTQVFFLL
 GTLGLFCLVFACVVKPDFSTCASRRFLFGVLFALCFSLAAHVAFALNFLARKNHGPRGWIFTVALLLTL
 VEVIINTEWLIITLVRGSGEGGPQGNSSAGWAVASPCAIANMDFVMALIYVMLLLLGAFLGAWPALCGRY
 KRWRKHGVFVLLTTATSVAIWVWVIMYTYGNKQHNSPTWDDPTLAIALANAWAFVLFYVIPEVSQVTK
 SSPEQSYQDMPTRGVGYETILKEQKQSMFVENKAFSMDEPVAAKRPVSPYSGYNGQLLTSVYQPTM
 ALMHKVPSEGAYDIILPRATANSQVMGSANSTLRAEDMYSASQSHQAATPPKDGKNSQVFRNPYVWD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6006_h05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_022036

ORF Size: 1458 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).

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_022036.2](#), [NP_071319.2](#)

RefSeq Size: 2389 bp

RefSeq ORF: 1326 bp

Locus ID: 55890

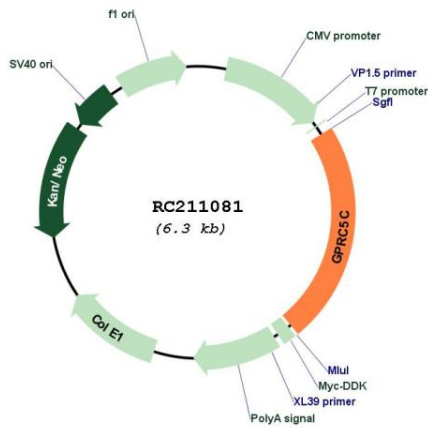
UniProt ID: [Q9NQ84](#)

Cytogenetics: 17q25.1

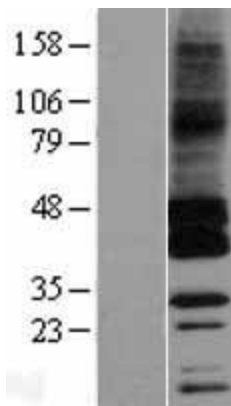
Domains: 7tm_3
Protein Families: Druggable Genome, GPCR, Transmembrane
MW: 52.9 kDa

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 RC211081



Western blot validation of overexpression lysate (Cat# [LY402899]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211081 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).