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Product datasheet for SC110534

GPRC5C (NM_022036) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRC5C (NM_022036) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPRC5C
Synonyms:	RAIG-3; RAIG3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_022036, the custom clone sequence may differ by one or more nucleotides

ATGCGGGGGCGTGGCAGTCAACAGCAACAACCCACACGCCGGCAGGGCCAGAAACTCCCATCTCCCTCAC
CAGCCGGAAAGTACGAGTCGGCTCAGCCTGGAGGGACCCAACCAGAGCCTGGCCTGGGAGCCAGGATGGC
CATCCACAAAGCCTTGGTGATGTGCCTGGGACTGCCTCTCTTCCTGTTCCCAGGGGCCTGGGCCCAGGGC
CATGTCCCACCCGGCTGCAGCCAAGGCCTCAACCCCCTGTACTACAACCTGTGTGACCGCTCTGGGGCGT
GGGGCATCGTCCTGGAGGCCGTGGCTGGGGCGGGCATTGTCACCACGTTTGTGCTCACCATCATCCTGGT
GGCCAGCCTCCCCTTTGTGCAGGACACCAAGAAACGGAGCCTGCTGGGGACCCAGGTATTCTTCCTTCTG
GGGACCCTGGGCCTCTTCTGCCTCGTGTTTGCCTGTGTGGTGAAGCCCGACTTCTCCACCTGTGCCTCTC
GGCGCTTCCTCTTTGGGGTTCTGTTCGCCATCTGCTTCTCTTGTCTGGCGGCTCACGTCTTTGCCCTCAA
CTTCCTGGCCCGGAAGAACCACGGGCCCCGGGGCTGGGTGATCTTCACTGTGGCTCTGCTGCTGACCCTG
GTAGAGGTCATCATCAATACAGAGTGGCTGATCATCACCCTGGTTCGGGGCAGTGGCGAGGGCGGCCCTC
AGGGCAACAGCAGCGCAGGCTGGGCCGTGGCCTCCCCCTGTGCCATCGCCAACATGGACTTTGTCATGGC
ACTCATCTACGTCATGCTGCTGCTGCTGGGTGCCTTCCTGGGGGCCTGGCCCGCCCTGTGTGGCCGCTAC
AAGCGCTGGCGTAAGCATGGGGTCTTTGTGCTCCTCACCACAGCCACCTCCGTTGCCATATGGGTGGTGT
GGATCGTCATGTATACTTACGGCAACAAGCAGCACAACAGTCCCACCTGGGATGACCCCACGCTGGCCAT
CGCCCTCGCCGCCAATGCCTGGGCCTTCGTCCTCTTCTACGTCATCCCCGAGGTCTCCCAGGTGACCAAG
TCCAGCCCAGAGCAAAGCTACCAGGGGGACATGTACCCCACCCGGGGCGTGGGCTATGAGACCATCCTGA
AAGAGCAGAAGGGTCAGAGCATGTTCGTGGAGAACAAGGCCTTTTCCATGGATGAGCCGGTTGCAGCTAA
GAGGCCGGTGTCACCATACAGCGGGTACAATGGGCAGCTGCTGACCAGTGTGTACCAGCCCACTGAGATG
GCCCTGATGCACAAAGTTCCGTCCGAAGGAGCTTACGACATCATCCTCCCACGGGCCACCGCCAACAGCC
AGGTGATGGGCAGTGCCAACTCGACCCTGCGGGCTGAAGACATGTACTCGGCCCAGAGCCACCAGGCGGC
CACACCGCCGAAAGACGGCAAGAACTCTCAGGTCTTTAGAAACCCCTACGTGTGGGACTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022036 unedited
GTATTTTGTAATACGACTCACTTATAGGGCGGCCGCGAATTCGCACGAGGCTGCGCTGGA
GCGGGGCCGGCGGCGAGTCCCAGGNACCCAACCAGAGCCTGGCCTGGGAGCCAGGATGGC
CATCCACAAAGCCTTGGTGATGTGCCTGGGACTGCCTCTCTTCCTGTTCCCAGGGGCCTG
GGCCCAGGGCCATGTCCCACCCGGCTGCAGCCAAGGCCTCAACCCCCTGTACTACAACCT
GTGTGACCGCTCTGGGGCGTGGGGCATCGTCCTGGAGGCCGTGGCTGGGGCGGGCATTGT
CACCACGTTTGTGCTCACCATCATCCTGGTGGCCAGCCTCCCCTTTGTGCAGGACACCAA
GAAACGGAGCCTGCTGGGGACCCAGGTATTCTTCCTTCTGGGGACCCTGGGCCTCTTCTG
CCTCGTGTTTGCCTGTGTGGTGAAGCCCGACTTCTCCACCTGTGCCTCTCGGCGCTTCCT
CTTTGGGGTTCTGTTCGCCATCTGCTTCTCTTGTCTGGCGGCTCACGTCTTTGCCCTCAA
CTTCCTGGCCCGGAAGAACCACGGGCCCCGGGGCTGGGTGATCTTCACTGTGGCTCTGCT
GCTGACCCTGGTAGAGGTCATCATCAATACAGAGTGGCTGATCATCACCCTGGTTCGGGG
CAGTGGCGAGGGCGGCCCTCANGGCAACAGCAGCGCAGGCTGGGCCGTGGCCTCCCCCTG
TGCCATCGCCAACATGGACTNTGTCATGGCACTCATCTACGTCATGCTGCTGCTGCTGGG
TGCCTTCCTGGGGGCCTGGCCCGCCCTGTGTGGCCGCTACAGCGCTGGCGTAGCATGGNG
TCTTTGTGCTCCTCACCCAGNCACCTNCGTTGCATATGGGTGGTNGTGGATCGTCATGTA
TACTTACNNGCACAGCAGCACACAGTCCCACCTGGATGACCCACGCTGGCCATCGNCCTC
GCGNCATGCCTGGGCCTCGTNCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022036 unedited
CCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTAATAAAGCAGAAATGTATTTATTA
GGCACCCTTGTTCCTCACGAGGAGCAAGATCCAGGCCTGAGCGCCTGGGAAGTCTCTTGA
GGTTGCAGGAATCTCCAGAGAAACATAGGCGCTGCCCAGCCACCACCCCGAGAACACTAT
TTGGCTGGAGTGTGACCGCCGAGGTGATCCTGGCAGGAGGCTGGGGTTGGCTCCTCGACT
CCACAAACACTGAGGAGTGGGTGGGGACACCCATGACACCCACCCAAACACTGGCAGAGA
GGGAGGCCCTTCCACATCTGGGGCACATGTTGCTGGGCCTGCCAGGGGGAGGAGGAGCCT
GGAGAGTCCCTTGCCCGGGGCCAGGTCCTCAGGGCCCTCCCCAAATCCGACCGCCTCTCC
TCGCCACCGCTGACTCAGTCCCACACGTAGGGGTTTCTAAAGACCTGAGAGTTCTTGCCG
TCTTTCGGCGGTGTGGCCGCCTGGTGGCTCTGGGCCGAGTACATGTCTTCAGCCCGCAGG
GTCGAGTTGGCACTGCCCATCACCTGGCTGTTGGCGGTGGCCCGTGGGAGGATGATGTCG
TAAGCTCCTTCGGACGGAACTTTGTGCATCAGGGCCATCTCAGTGGGCTGGTACACACTG
GTCAGCAGCTGCCCATTGTACCCGCTGTATGGTGACACCGGCCTCTTAGCTGNCACCGGC
TCATCCATGGAAAAGGCCTTGTTCTCCACGAACATGCTCTGACCCTTCTGCTCTTTCAGG
ATGGGCTCATAGCCCACGCCCCGGGGTGGGGTACATGTTCCCNCTGGTAGCTTTGCTCTG
GGCTGGACTTGGTCACCTGGAGACCTCGGGATGACGTAAAGAAGACGAGGCCCAGCATTG
GGCGCAGGGCGATGCCANCGTGGGGCATCCCAGTGGACTGTGNGCTGNTTGTGCCGTAGT
TACTTGACATTCACCACCCTATGCAGCGGGGG

Restriction Sites: NotI-NotI

ACCN: NM_022036

Insert Size: 1700 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_022036.1, NP_071319.1
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
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] Transcript Variant: This variant (1) encodes isoform a. Variants 1, 2 and 4 encode isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. CCDS Note: The coding region has been updated to shorten the N-terminus to one that is more supported by conservation.