

Product datasheet for **RC239482**

GPRC6A (NM_001286354) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRC6A (NM_001286354) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPRC6A
Synonyms:	bA86F4.3; GPCR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239482 representing NM_001286354
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATTCTTAATTATACTAATTACCTGCTTTGTGATTATTCTTGCTACTTCACAGCCTTGCCAGACCC
CTGATGACTTTGTGGCTGCCACTTCTCCGGACATATCATAATTGGAGGTTTGTGGTATTTCATGAAAA
AATGTTGTCTCAGAAGACTCTCCAGACGACCACAAATCCAGGAGTGTGTTGGCTTTGAAATATCAGTT
TTTCTTCAAACCTTTGCCATGATACACAGCATTGAGATGATCAACAATCAACACTCTTACCTGGAGTCA
AACTGGGGTATGAAATCTATGACACTTGTACAGAAGTCACAGTGGCAATGGCAGCCACTCTGAGGTTTCT
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TGCCACAGGTGGGTTATGAATCAACTGCAGAAATCCTGAGTGACAAAATTCGCTTTCCTTCAATTTTACG
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CAAATAACGTGTGCATAGCCTTCAAAGAGGTTCTTCCAGCCTTTCTTTCAGATAATACCATTGAAGTCAG
AATCAATCGGACACTGAAGAAAATCATTTTAGAAGCCAGTACTTGGTGTGCTAAAAATGTGACATTC
ACTGATGGATGGAATTCATTTTATTTGATGCTCACGGGATTTAAATACTGGATATGATGTTGTGCTCT
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TGCAGTCTGGGCAAATGAAGAAAATACAAGAAGTCAACACATCTGTTGCTATGAATGCAGAAGTGTG
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CCCTGTTAGGAGCACTATGTGCTTTGAAAAGGAAGTGAATATCTCAACTGGAATGACTCCTTGGCCATC
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AATGTCAAGTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239482 representing NM_001286354
 Red=Cloning site Green=Tags(s)

MAFLIILITCFVILATSQPCQTPDDFVAATSPGHIIIGGLFAIHEKMLSSEDSPRRPQIQECVGF EISV
 FLQTLAMIHSIEMINNSTLLPGVKLGYEYDTCETVTVAMAATLRFLSKFNCSRETVEFKCDYSSYMPRV
 KAVIGSGYSEITMAVSRMLNLQLMPQVGYESTAEILSDKIRFPSFLRTVP SDFHQIKAMAHLIQKSGWNW
 IGIITDDDDYGRALNNTFIIQAEANNVCI AFKEVLP AFLSDNTIEVRINRTLKKIILEAQLLGVLKNVTF
 TDGWN SFHFD AHGDLNTGYDVVLWKEINGHMTVTKMAEYDLQNDVFIIPDQETKNEFRNLKQIQSKCSKE
 CSPGQMKKTRSQHICCEYECQNCPENHYTNQTDMPHCLLCNNKTHWAPVRSTMC FEKEVEYLNWNDSLAI
 LLLILSLLGIIFVLVVGII FTRNLNTPVVKSSGGLRVCYVILLCHFLNFASTSFFIGEPQDFTCKTRQTM
 FGV SFTLCISCILTKSLKILLAFSFDPKLQKFLKLYRPILII FTCTGIQVVICTLWLIFAAPTVEVNV S
 LPRVIIIECEEGSILAFGTM LGYIAILAFICFIFAFKGYENYNEAKFITFGMLIYFIAWITFIPIYATT
 FGKYVPAVEIIVILISNYGILYCTFIPKCYVIICKQEINTKSAFLKMIYSYSSHSVSSIALSPASLDSMS
 GNV TMTNPSSSGKSATWQKSKDLQAQAF AHICRENATSVSKTLPRKRMSSI

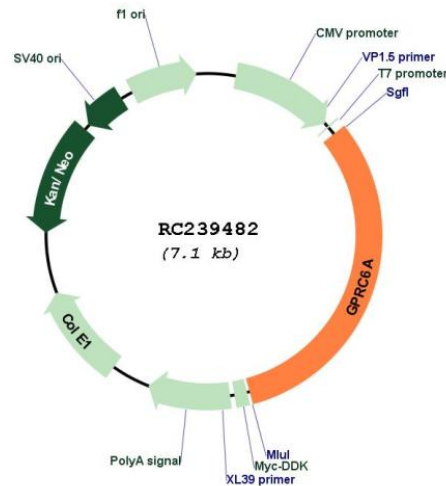
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001286354

ORF Size: 2253 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_001286354.1](#), [NP_001273283.1](#)

RefSeq Size: 2357 bp

RefSeq ORF: 2256 bp

Locus ID: 222545

UniProt ID:	Q5T6X5
Cytogenetics:	6q22.1
Protein Families:	Druggable Genome, Transmembrane
MW:	85 kDa
Gene Summary:	Members of family C of the G protein-coupled receptor (GPCR) superfamily, such as GPRC6A, are characterized by an evolutionarily conserved amino acid-sensing motif linked to an intramembranous 7-transmembrane loop region. Several members of GPCR family C, including GPRC6A, also have a long N-terminal domain (summary by Pi et al., 2005 [PubMed 16199532]).[supplied by OMIM, Nov 2010]