

Product datasheet for **RG218656**

GPRC6A (NM_148963) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPRC6A (NM_148963) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPRC6A
Synonyms:	bA86F4.3; GPCR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218656 representing NM_148963
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCATTCTTAATTATACTAATTACCTGCTTTGTGATTATTCTTGCTACTTCACAGCCTTGCCAGACCC
 CTGATGACTTTGTGGCTGCCACTTCTCCGGGACATATCATAATTGGAGGTTTGTGGTCTATTCATGAAAA
 AATGTTGTCTCAGAAGACTCTCCAGAGCAGCCACAAATCCAGGAGTGTGTTGGCTTTGAAATATCAGTT
 TTTCTTCAAACCTTTGCCATGATACACAGCATTGAGATGATCAACAATCAACACTCTTATCTGGAGTCA
 AACTGGGGTATGAAATCTATGACACTTGTACAGAAGTACAGTGGCAATGGCAGCCACTCTGAGGTTTCT
 TTCTAAATCAACTGCTCCAGAGAACTGTGGAGTTTAAAGTGTGACTATCCAGCTACATGCCAAGAGTT
 AAGGCTGCATAGGTTCTGGTACTCAGAAATAACTATGGCTGTCTCCAGGATGTTGAATTTACAGCTCA
 TGCCACAGGTGGGTTATGAATCAACTGCAGAAATCCTGAGTGACAAAATTCGCTTTCCTTCAATTTTACG
 GACTGTGCCAGTGACTCCATCAAATTAAGCAATGGCTCACCTGATTACAGAAATCTGGTTGGAAGTGG
 ATTTGGCATCATAACCACAGATGATGACTATGGACGATTGGCTCTTAACACTTTTATAAATCAGGCTGAAG
 CAAATAACGTGTGCATAGCCTTCAAAGAGGTTCTTCCAGCCTTCTTTCAGATAATACCATTGAAGTCAG
 AATCAATCGGACACTGAAGAAAATCATTTTAGAAGCCAGGTTAATGTCATTGTGGTATTTCTGAGGCAA
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 TGTCTGGTTGTTGGCATAATATTTACAAGAACTGAACACACCTGTTGTGAAATCATCCGGGGGATTA
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 CACAAGACTTCACATGTAACCAGGCAGACAATGTTGGAGTGAGCTTTACTCTTTGCATCTCCTGCAT
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 CAAGAGATTAACACAAAGTCTGCCTTTCTCAAGATGATCTACAGTATTCTTCCCATAGTGTGAGCAGCA
 TTGCCCTGAGTCTGCTTCACTGGACTCCATGAGCGGCAATGTCACAATGACCAATCCAGCTCTAGTGG
 CAAGTCTGCAACCTGGCAGAAAAGCAAAGATCTTCAGGCACAAGCATTGTCACACATATGCAGGGAAAAT
 GCCACAAGTGTATCTAAAATTTGCCTCGAAAAAGAATGTCAAGTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218656 representing NM_148963
 Red=Cloning site Green=Tags(s)

MAFLIILITCFVILATSQPCQTPDDFVAATSPGHIIIGGLFAIHEKMLSSEDSPRRPQIQECVGF EISV
 FLQTLAMIHSIEMINNSTLLSGVKLGYEYDTC TEVTVAMAATLRFLSKFNCSRETVEFKDYSSYMPRV
 KAVIGSGYSEITMAVSRMLNLQLMPQVGYESTAEILSDKIRFPSFLRTVP SDFHQIKAMAHLIQKSGWNW
 IGIITDDDDYGR LALNTFIIQAEANNVCI AFKEVLP AFLSDNTIEVRINRTLK KIILEAQVNVIVVFLRQ
 FHVFDL FNKAIEMNINKMWIASDNWSTATKITTIPNVK KIGKVVGFAFRGNISSFHSFLQNLHLLP SDS
 HKLLHEYAMHLSACAYVKD TDL SQCIFNHSQR TLAYKANKA IERNFVMRND FLWDYAEPGLIHSIQ LAVF
 ALGYAIRDL CQARDCQNPNAFQPWELLGVLKNVTFD GWNSFHFD AHGDLNTGYDVV LWKEINGHMTVTK
 MAEYDLQNDVFIIPDQETKNEFRNLKQIQSKSKECSPGQMKTTRSQHICCYECQNCPENHYTNQTDMP
 HCLLCNNKTHWAPVRSTMC FEKEVEYLNWNSLA ILLLILSLLGIIFVLVVGII FTRNLNTPVVKSSGGL
 RVCYVILLCHFLNFASTSFFIGEPQDFTCKTRQTMFGVSFTLCISCILTKSLKILLAFSFDPKLQKFLKC
 LYRPILIIFTCTGIQVICTLWLIFAAPTVEVNVSLPRV IILECEE GSILAFG TMLGYIAILAFICFIFA
 FKGYENYNEAKFITFGMLIYFIAWITFIPIYATTFGKYVPAVEIIVILISNYGILYCTFIPKCYVIICK
 QEINTKSAFLKMIYSYSSHSVSSIALSPASLDSM SGNVTMTNPSSSGKSATWQKSKDLQAQAF AHICREN
 ATSVSKTLPRKRMSSI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

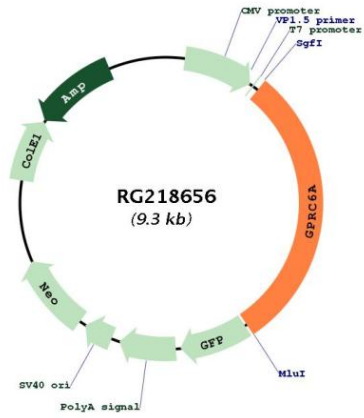
Cloning Scheme:



ACCN: NM_148963

ORF Size:	2778 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:	<ol style="list-style-type: none">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_148963.1 , NP_683766.1
RefSeq Size:	2860 bp
RefSeq ORF:	2781 bp
Locus ID:	222545
UniProt ID:	Q5T6X5
Cytogenetics:	6q22.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Members of family C of the G protein-coupled receptor (GPCR) superfamily, such as GPCRC6A, 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 GPCRC6A, also have a long N-terminal domain (summary by Pi et al., 2005 [PubMed 16199532]).[supplied by OMIM, Nov 2010]

Product images:



Circular map for RG218656