

Product datasheet for **RC212166**

GPR162 (NM_019858) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR162 (NM_019858) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR162
Synonyms:	A-2; GRCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC212166 representing NM_019858
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCGGGCGGGGGCGGGGCAGAGGAGGCCTCCCTGCGCTCCAACGCATTGTCTGGCTGGCCTGTG
 GGCTCCTGGCGCTGCTGGCCAATGCCTGGATCATCCTCAGCATCTCGGCCAAGCAGCAGAAGCACAGCC
 ACTGGAGCTGCTGCTCTGCTTCTAGCGGGCACACATACTCATGGCAGCTGTGCCCTCACCACCTTT
 GCCGTGGTGCAGCTGCGTCGTCAGGCTTCTCCGACTATGACTGGAACGAGAGTATCTGCAAGGTCTTCG
 TGTCCACCTACTACACCCTGGCGCTGGCCACCTGCTTACGGTCGCTCCCTCTCTACCATCGCATGTG
 GATGGTGCCTGGCCGTCACCTACCGCTCAGCAACGCCAAGAAGCAGGCACTGCATGCCGTATGGGC
 ATCTGGATGGTCACTTATCCTCTCCACTGCCCTCCATTGGTGGCACAACAACGGCGAGCGCTACT
 ATGCCCGCGCTGCCAGTTCATAGTCTCAAGATCGGCCCTGGCTTTGGCGTTTGGCTTACGCTCTTGT
 ACTTGGGGGAATTGTATGGGTCTGGTCTGTGTGGCCATCACCTTCTACCAGACTGTGGGCCCGGCC
 CGGAGGGCTCGGCAGGCCGGAGAGTGGGGGGTGGTGGGGGACCAAGCGGGTGGGCCAGGGGCCCTTGG
 GTACCCGGCCAGCTTTTGGAGTACCAGCCATTGTGGTGGAGGATGCCCGAGGGAAGCGGGCTCCTCGT
 GGATGGCTCGGAGTCTGCCAAGACATCCCTGCAGGTACCAACTTGGTACGCGCCATCGTCTTCTCTAT
 GACTCACTCACAGGGGTGCCATCTTGGTGGTGGAGCTTCTTCCCTCAAGTCCGACTCGGGCCCCCTT
 GGATGGTCTGGCTGTGCTGTGGTGTCCATGGCAGACGCTGCTGCTGCCCTCCTTCTATCTGGTCTG
 CGAGCGCTACCGCGCCGACGTGCGCACAGTGTGGGAGCAATGCGTGGCCATCATGTCTGAGGAGGATGGA
 GATGACGATGGGGCTGTGACGACTATGCAGAGGGCCGAGTTGCAAAGTTCGCTTTGATGCTAACGGAG
 CCACAGGACCAGGAGCCGGGACCCCGCCAGGTGAAGCTGCTGCCTGGAAGGCACATGCTTCCCTCC
 TCTTGAGAGAGTCCACTACTTACAGTCCCTATCCCGCGTCTGTCCATGATGAGACAAACATCTTC
 TCTACCCCTCGGGAACCAGGCTCCTTCTGCACAAGTGGTATCCTCTGATGACATCCGGGTCTCCAG
 CCCAGAGCCGGCCCTCGGGGTCTCCTGAGTACCTGGGACAAAGACACAGGTTGGAGGACGAGGAGGA
 CGAGGAAGAGGCTGAAGGTGGGGGGTGGCCAGCCTTCGCAATTCTTGGAGAGTGGGGTCTGGGGTCA
 GGTGGGGGACCCACGGGGTCTGGCTTCTTCCGGGAGGAGATCACCACCTTATCGATGAGACACCTC
 TGCCTTCTCCGACTGCCTCACCAGGCACTCTCCTCGTGGCCCCGGCCACTGGGCTCTACCCCGCCG
 ACTCTCCCTTGGTCCCCTGAGAGCAGAGCCGTTGGACTTCTTTGGGACTAAGCGCAGGAGAGCGTGC
 TCCCTGACGGGGGTGAAGAAAGTGAAGGGCTTGGGAGGATCTGGGGCCAGGCAACCCCATCTTTC
 CCCAGTGACCCTG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212166 representing NM_019858
 Red=Cloning site Green=Tags(s)

MARGGAGAEASLRNALSWLACGLLALLANAWIILSISAKQKHKPLELLLFLAGTHILMAAVPLTTF
 AVVQLRRQASSDYDWNESICKVFVSTYYTLALATCFVAVSLSYHRMVMVRWPVNYRLSNAKKQALHAVMG
 IWMVSFILSTLPSIGWHNNGERYYARGCQFIVSKIGLFGVCFLLLLGGIVMGLVCVAITFYQTLWARP
 RRARQARRVGGGGTKAGGPGALGTRPAFEVPAIVVEDARGKRRSSLDGSESAKTSLQVTNLVSAIVFLY
 DSLTGVPILVVSFFSLKSDSAPPWMLAVLWCSMAQTLLLPSPFIWSCERYRADVRTVWEQCVAIMSEEDG
 DDDGGCDDYAEGRVCKVRFDANGATGPGSRDPAQVKLLPGRHMLFPPLERVHYLQVPLSRRLSHDETNI
 STPREPGSFLHKWSSDDIRVLPQRSALGGPPEYLGQRHRLDEDEDEEAEGGGLASLRQFLESGLVLS
 GGGPPRPGPFREEITTFIDETPLSPPTASPGHSPRRRPLGLSPRRLSLGSPESRAVGLPLGLSAGRRR
 SLTGGEESARAWGGSWGPNIQPLTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019858

ORF Size: 1764 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_019858.2](#)

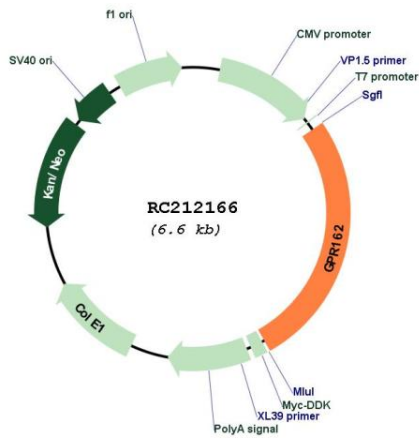
RefSeq Size: 2516 bp

RefSeq ORF: 1767 bp

Locus ID: 27239

UniProt ID: [Q16538](#)
Cytogenetics: 12p13.31
Domains: 7tm_1
Protein Families: Druggable Genome, GPCR, Transmembrane
MW: 63.8 kDa
Gene Summary: This gene was identified upon genomic analysis of a gene-dense region at human chromosome 12p13. It appears to be mainly expressed in the brain; however, its function is not known. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC212166