

Product datasheet for RC201764

GPR162 (NM_014449) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR162 (NM_014449) 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)
ORF Nucleotide Sequence:	>RC201764 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGAGCACTGGGGTGGTGGAGCTTCTTCTCCCTCAAGTCGGACTCGGCGCCCCCTGGATGGTGTCTGG
CTGTGCTGTGGTGTCCATGGCACAGACGCTGCTGCTGCCCTCCTTCATCTGGTCTGCGAGCGCTACCG
CGCCGACGTGCGCACAGTGTGGGAGCAATGCGTGGCCATCATGTCTGAGGAGGATGGAGATGACGATGGG
GGCTGTGACGACTATGCAGAGGGCCGAGTTTCAAAGTTCGCTTTGATGCTAACGGAGCCACAGGACCAG
GGAGCCGGGACCCCGCCAGGTGAAGCTGCTGCCTGGAAGGCACATGCTTCCCTCCTCTTGAGAGAGT
CCACTACTTACAGTCCCCCTATCCCGGCTGTGCCATGATGAGACAAACATCTTCTCTACCCCTCGG
GAACCAGGCTCCTTCTGCACAAGTGGTCATCCTCTGATGACATCCGGGTCTCCAGCCAGAGCCGGG
CCCTCGGGGGTCTCTGAGTACCTGGGACAAAGACACAGGTTGGAGGACGAGGAGGACGAGGAAGAGGC
TGAAGGTGGGGGCTGGCCAGCCTTCGCAATTCTTGAGAGTGGGGTCTGGGGTCAAGTGGGGGACCC
CCACGGGGTCTGGCTTCTTCCGGGAGGAGATCACCACCTTCATCGATGAGACACCTCTGCCTTCTCCGA
CTGCCTCACCAGGGCACTCTCCTCGTGGCCCCGGCCACTGGGCCTCTCACCCCGCGACTCTCCCTTGG
GTCCCTGAGAGCAGAGCCGTTGGACTTCTTTGGGACTAAGCGCAGGGAGACGCTGCTCCCTGACGGGG
GGTGAAGAAAGTGCAAGGGCTTGGGAGGATCCTGGGGCCAGGCAACCCCATCTTCCCCAGCTGACCC
TG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC201764 protein sequence
Red=Cloning site Green=Tags(s)

MLSTGVVSFFSLKSDSAPPWMLAVLWCSMAQTLLLPSFIWSCERYRADVRTVWEQCVAIMSEEDGDDDG
 GCDDYAEGRVCKVRFDANGATGPGSRDPAQVKLLPGRHMLFPPLERVHYLQVPLSRRLSHDETNIFFSTPR
 EPGSFLHKWSSDDIRVLPQRSALGGPPEYLQQRHRLDEDEEEAEGGLASLRQFLESGVLGSGGGP
 PRGPGFFREEITTFIDETPLPSPTASPGHSPRRRPLGLSPRRLSLGSPESRAVGLPLGLSAGRRCSLTG
 GEESARAWGGSWGPGNPIFPQLTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6376_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014449

ORF Size: 912 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_014449.2](#)

RefSeq Size: 1514 bp

RefSeq ORF: 915 bp

Locus ID: 27239

UniProt ID: [Q16538](#)

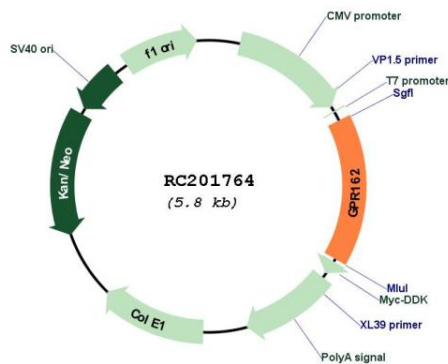
Cytogenetics: 12p13.31

Protein Families: Druggable Genome, GPCR, Transmembrane

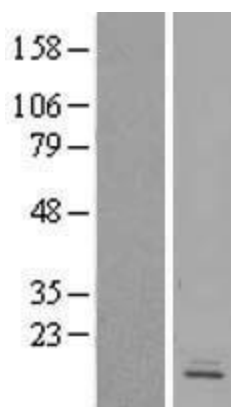
MW: 33.1 kDa

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 RC201764



Western blot validation of overexpression lysate (Cat# [LY415273]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201764 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).