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Product datasheet for RC210484

GPR64 (ADGRG2) (NM_001079859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR64 (ADGRG2) (NM_001079859) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR64
Synonyms:	CBAVDX; EDDM6; GPR64; HE6; TM7LN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210484 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTTTTCTCTGTCAGGCAGTGTGGCCATGTTGGCAGAACTGAAGAAGTTTTACTGACGTTCAAGATAT
TCCTTGTCATCATTTGTCTTCATGTCGTTCTGGTAACATCCCTGGAAGAAGATACTGATAATTCCAGTTT
GTCACCACCACCTGCTAAATTATCTGTTGTCAGTTTTGCCCCCTCCTCCAATGGTACTCCAGAGGTTGAA
ACAACAAGCCTCAATGATGTTACTTTAAGCTTACTCCCTTCAAACGAAACAGGCGTCAAACCCCAGAGAA
ATATCTGCAATTTGTCATCTATTTGCAATGACTCAGCATTTTTTAGAGGTGAGATCATGTTTCAATATGA
TAAAGAAAGCACTGTTCCCCAGAATCAACATATAACGAATGGCACCTTAACTGGAGTCCTGTCTCTAAGT
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TGCCCTTCCTCCCCAGAAGAGTTGGAAAAGCTTCAGTGTGACCTGCAGGATCCCATTGTCTGTCTTGCTG
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CCAGGTCCCCAAAGCTACCTCTTTTGCTGAGCCTCCAGATTATTCACCTGTGACCCACAATGTTCCCTCT
CCAATAGGGGAGATTCAACCCCTTTCACCCCAGCCTTCAGCTCCCATAGCTTCCAGCCCTGCCATTGACA
TGCCCCCACAGTCTGAAACGATCTCTTCCCCTATGCCCCAAACCCATGTCTCCGGCACCCCACCTCCTGT
GAAAGCCTCATTTTCCTCTCCCACCGTGTCTGCCCCTGCGAATGTCAACACTACCAGCGCACCTCCTGTC
CAGACAGACATCGTCAACACCAGCAGTATTTCTGATCTTGAGAACCAAGTGTTGCAGATGGAGAAGGCTC
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TCCTGAGAACAGTATTGGCACAATTACTCTTCCTTCATCGCTGATGAATAATTTACCAGCTCATGACATG

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GAGCTAGCTTCCAGGGTTCAGTTCAATTTTTTTGAAACACCTGCTTTGTTTCAGGATCCTTCCCTGGAGA
ACCTCTCTCTGATCAGCTACGTCATATCATCGAGTGTTGCAAACCTGACCGTCAGGAACTTGACAAGAAA
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210484 protein sequence
Red=Cloning site Green=Tags(s)

MVFSVRQCGHVGRTEEVLLTFKIFLVIICLHVVLVTSLEEDTDNSSLSPPPAKLSVVSFAPSSNGTPEVE
TTSLNDVTLSLLPSNETGVKPQRNICNLSSICNDSAFFRGEIMFQYDKESTVPQNQHITNGTLTGVLSLS
ELKRSELNKTLQTLSETYFIMCATAEAQSTLNCTFTIKLNNTMNACAVIAALERVKIRPMEHCCCSVRIP
CPSSPEELEKLQCDLQDPIVCLADHPRGPPFSSSQSIPVVPRATVLSQVPKATSFAEPPDYSPVTHNVPS
PIGEIQPLSPQPSAPIASSPAIDMPPQSETISSPMPQTHVSGTPPPVKASFSSPTVSAPANVNTTSAPPV
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NFSNTTISLTSPSLALAVIRVNASSFNTTTFVAQDPANLQVSLETQAPENSIGTITLPSSLMNNLPAHDM
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LGRNGGRGGWSDNGCSVKDRRLNETICTCSHLTSFGVLLDLSRTSVLPAQMMALTFITYIGCGLSSIFLS
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EAFHMYLALVKVFNTYIRKYILKFCIVGWGVPAVVVTIILTISPDNYGLGSYGKFPNGSPDDFCWINNNA
VFYITVVGYFCVIFLLNVSMFIVVLVQLCRIKKKKQLGAQRKTSIQDLRSIAGLTFLLGITWGFAFFAWG
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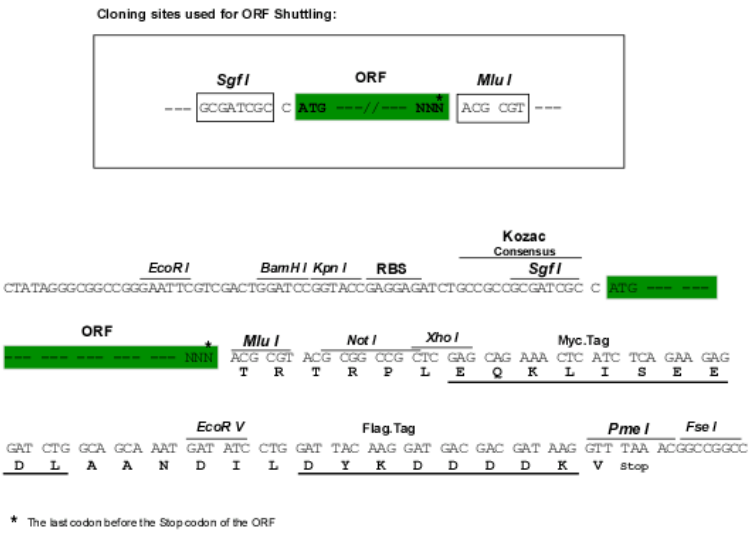
SSSSNSLQSSSNSTNSTTLLVNNDCSVHASGNGNASTERNGVSFSVQNGDVCLHDFTGKQHMFNEKEDSC
NGKGRMALRRTSKRGSLHFIEQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6678_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001079859

ORF Size: 3009 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001079859.3

RefSeq Size: 4853 bp

RefSeq ORF: 3012 bp

Locus ID: 10149

UniProt ID: Q8IZP9

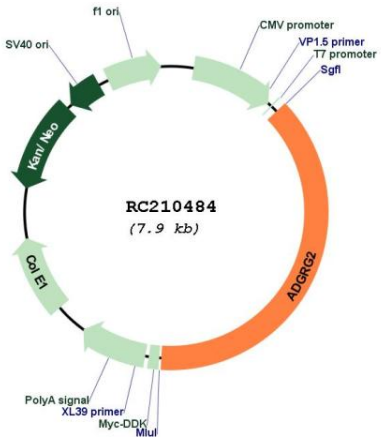
Cytogenetics: Xp22.13

Protein Families: Druggable Genome, GPCR, Transmembrane

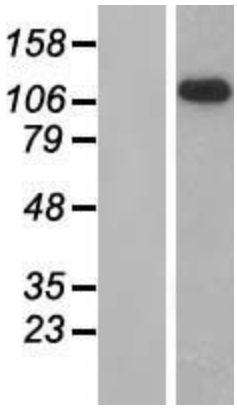
MW: 110.1 kDa

Gene Summary: This gene encodes a member of the G protein-coupled receptor family described as an epididymis-specific transmembrane protein. The encoded protein may be proteolytically processed as it contains a motif shown to be a protein scission motif in some members of this family (PMID: 11973329). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC210484



Western blot validation of overexpression lysate (Cat# [LY421561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210484 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).