

Product datasheet for RC219745

GPR73A (PROKR1) (NM_138964) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPR73A (PROKR1) (NM_138964) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPR73A
Synonyms:	GPR73; GPR73a; PK-R1; PKR1; ZAQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219745 representing NM_138964 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGACCACCATGGGGTTCATGGATGACAATGCCACCAACACTTCCACCAGCTTCCTTTCTGTGCTCA
ACCCTCATGGAGCCCATGCCACTTCCTTCCATTCAACTTCAGCTACAGCGACTATGATATGCCTTTGGA
TGAAGATGAGGATGTGACCAATCCAGGACGTTCTTTGCTGCCAAGATTGTCATTGGGATGGCCCTGGT
GGCATCATGCTGGTCTGCGGCATTGAAACTTCATCTTTATCGCTGCCCTGGTCCGCTACAAGAACTGC
GCAACCTCACCAACTGCTCATCGCAACCTGGCCATCTCTGACTTCTGGTGGCCATTGCTGCTGCCC
CTTTGAGATGGACTACTATGTGGTGCGCCAGCTCTCCTGGGAGCACGGCCACGTCCTGTGCACCTCTGTC
AACTACCTGCGCACTGTCTCTCTATGTCTCCACCAATGCCCTGCTGGCCATCGCCATTGACAGGTATC
TGGCTATTGTCCATCCGCTGAGACCACGGATGAAGTGCCAAACAGCCACTGGCCTGATTGCCTTGGTGTG
GACGGTGTCCATCCTGATCGCCATCCCTTCCGCCTACTTCACCACCGAGACGGTCCCTCGTCATTGTCAAG
AGCCAGGAAAAGATCTTCTGCGGCCAGATCTGGCCTGTGGACCAGCAGCTCTACTACAAGTCTACTTCC
TCTTTATCTTTGGCATAGAATTCGTGGGCCCGTGGTACCATGACCCTGTGCTATGCCAGGATCTCCCG
GGAGCTCTGGTTCAAGGCGGTCCCTGGATTCCAGACAGAGCAGATCCGCAAGAGGCTGCGCTGCCGACAG
AAGACGGTCCCTGGTGTCTCATGTGCATCCTCACCGCCTACGTGCTATGCTGGGCGCCCTTCTACGGCTTCA
CCATCGTGCGCGACTTCTCCCAACCGTGTGTTGTAAGGAGAAGCACTACCTCACTGCTTCTACATCGT
CGAGTGATCGCCATGAGCAACAGCATGATCAACACTCTGTGCTTCTGTGACCGTCAAGAACGACACCGT
AAGTACTTCAAAAAGATCATGTTGCTCCACTGGAAGGCTTCTTACAATGGCGGTAAGTCCAGTGCAGACC
TGGACCTCAAGACAATTGGGATGCCTGCCACCGAAGAGGTGGACTGCATCAGACTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219745 representing NM_138964
Red=Cloning site Green=Tags(s)

METTMGFMDDNATNTSTSFLSVLNPHGAHATSPFPNFSYSDYDMPLEDEDVTNSRTFFAAKIVIGMALV
 GIMLVCGIGNFIFIAALVRYKLRNLTNLLIANLAISDFLVAIVCCPFEMDYVVRQLSWEHGHVLCSTV
 NYLRTVSLYVSTNALLAIAIDRYLAIVHPLRPRMKCQTATGLIALVWTVSILIAIPSAFYTTETVIVK
 SQEKIFCGQIWPVDQQLYKSYFLFIFGIEFVGPVVTMTLCYARISRELWFKAVPGFQTEQIRKRLRCRR
 KTVLVLMCILTAYVLCWAPFYGFIVRDFPPTVFVKEKHLYLTAFYIVECIAMSNMINTLCFVTVKNDTV
 KYFKKIMLLHWKASYNGGKSSADLDLKTIGMPATEEVDCIRLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2565_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_138964

ORF Size: 1179 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_138964.4](#)

RefSeq Size: 1182 bp

RefSeq ORF: 1182 bp

Locus ID: 10887

UniProt ID: [Q8TCW9](#)

Cytogenetics: 2p13.3

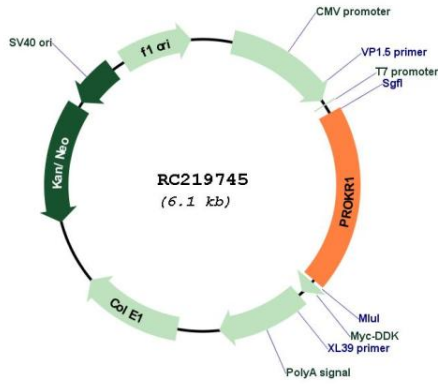
Domains: 7tm_1

Protein Families: Druggable Genome, GPCR, Transmembrane

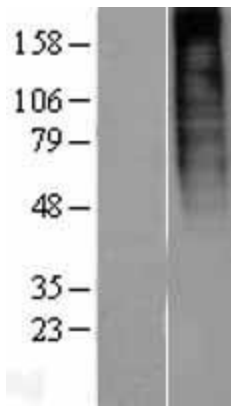
MW: 44.6 kDa

Gene Summary: This gene encodes a member of the G-protein-coupled receptor family. The encoded protein binds to prokineticins (1 and 2), leading to the activation of MAPK and STAT signaling pathways. Prokineticins are protein ligands involved in angiogenesis and inflammation. The encoded protein is expressed in peripheral tissues such as those comprising the circulatory system, lungs, reproductive system, endocrine system and the gastrointestinal system. The protein may be involved in signaling in human fetal ovary during initiation of primordial follicle formation. Sequence variants in this gene may be associated with recurrent miscarriage. [provided by RefSeq, Aug 2016]

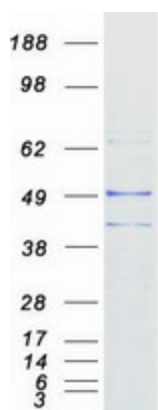
Product images:



Circular map for RC219745



Western blot validation of overexpression lysate (Cat# [LY403372]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219745 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PROKR1 protein (Cat# [TP319745]). The protein was produced from HEK293T cells transfected with PROKR1 cDNA clone (Cat# RC219745) using MegaTran 2.0 (Cat# [TT210002]).