

Product datasheet for RC205595

Prokineticin 1 (PROK1) (NM_032414) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prokineticin 1 (PROK1) (NM_032414) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prokineticin 1
Synonyms: EGVEGF; PK1; PRK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC205595 representing NM_032414
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGAGGTGCCACGCGAGTCTCAATCATGCTCCTCCTAGTAACTGTGTCTGACTGTGCTGTGATCACAG
 GGGCCTGTGAGCGGGATGCCAGTGTGGGCAGGCACCTGCTGTGCCATCAGCCTGTGGCTTCGAGGGCT
 GCGGATGTGCACCCCGCTGGGGCGGAAGGCGAGGAGTCCACCCCGGCAGCCACAAGATCCCCTTCTTC
 AGGAAACGCAAGCACCACCTGCTCCTTGCTTGCCCAACCTGCTGTGCTCCAGGTTCCCGACGGCAGGT
 ACCGCTGCTCCATGGACTTGAAGAACATCAATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205595 representing NM_032414
 Red=Cloning site Green=Tags(s)
 MRGATRVSIMLLLVTVSDCAVITGACERDVQCAGTCCAIISLWLRGLRMCTPLGREGECHPGSHKIPFF
 RKRKHHTCPCLPNLLCSRFPDGRYRCSMDLKNINF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2564_a02.zip

Restriction Sites: Sgfl-Mlul



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Cloning Scheme:


ACCN: NM_032414

ORF Size: 315 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_032414.3](#)

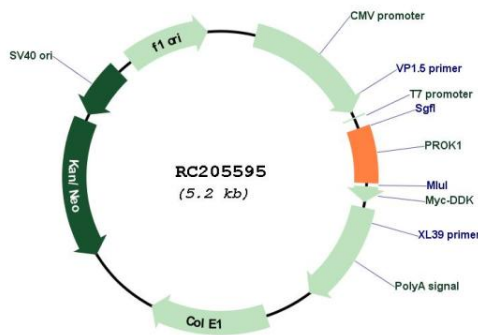
RefSeq Size: 1372 bp

RefSeq ORF: 318 bp

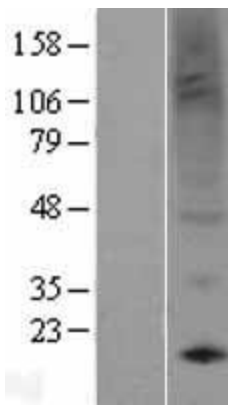
Locus ID: 84432

UniProt ID: [P58294](#)
Cytogenetics: 1p13.3
Protein Families: Druggable Genome, Secreted Protein
MW: 11.5 kDa
Gene Summary: The protein encoded by this gene induces proliferation, migration, and fenestration (the formation of membrane discontinuities) in capillary endothelial cells derived from endocrine glands. It has little or no effect on a variety of other endothelial and non-endothelial cell types. Its expression is restricted to the steroidogenic glands (ovary, testis, adrenal, and placenta), is induced by hypoxia, and often complementary to the expression of vascular endothelial growth factor (VEGF), suggesting that these molecules function in a coordinated manner. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC205595



Western blot validation of overexpression lysate (Cat# [LY403161]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205595 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).