

Product datasheet for **MR220338**

Prok1 (NM_001044382) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prok1 (NM_001044382) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prok1
Synonyms: EG-VEGF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220338 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAGGCGCTGTGCATATCTTCATCATGCTCCTTCTAGCAACGGCGTCCGACTGTGCGGTCATCACAG
GGGCCTGTGAACGAGATATCCAGTGTGGGGCCGGCACCTGCTGCGCTATCAGTCTGTGGCTGCGGGCCCT
GCGGTTGTGTACCCACTGGGGCGTGAAGGAGAGGAGTCCACCCAGGAAGCCACAAGATCCCCTTCTTG
AGGAAACGCCAACACCATACCTGTCCCTGCTCACCCAGCCTGCTGTGCTCCAGGTTCCCGACGGCAGGT
ACCGCTGCTTCCGGGACTTGAAGAATGCCAATTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220338 protein sequence
Red=Cloning site Green=Tags(s)
MRGAVHIFIMLLLATASDCAVITGACERDIQCAGTCCAIISLWLRGLRLCTPLGREGEECHPGSHKIPFL
RKRQHHTCPCSPSLLCSRFPDGRYRCFRDLKNANF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_001044382

ORF Size: 318 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_001044382.2](#)

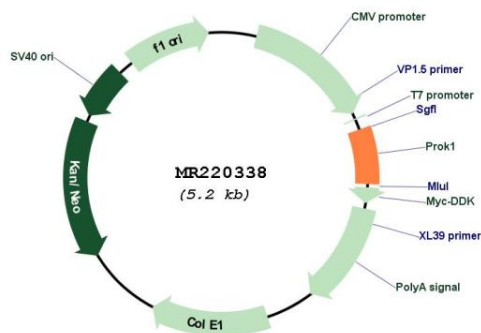
RefSeq Size: 414 bp

RefSeq ORF: 318 bp

Locus ID: 246691
UniProt ID: [Q14A28](#)
Cytogenetics: 3 F2.3
MW: 11.7 kDa

Gene Summary: Potently contracts gastrointestinal (GI) smooth muscle. Induces proliferation, migration and fenestration (the formation of membrane discontinuities) in capillary endothelial cells. Induces proliferation and differentiation, but not migration, of enteric neural crest cells. Directly influences neuroblastoma progression by promoting the proliferation and migration of neuroblastoma cells. Positively regulates PTGS2 expression and prostaglandin synthesis. May play a role in placentation. May play a role in normal and pathological testis angiogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220338