

Product datasheet for MR224175

Prokr1 (NM_021381) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prokr1 (NM_021381) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prokr1
Synonyms:	EG-VEGFR1; Gpr73; Pkr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224175 representing NM_021381 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCCTGTCTGGGCTCTGGGTGAGAATACCACAGACACCTTCACCGACTTCTTTTCTGCACTCG
ATGGCCATGAAGCCAAACCGGCTCGTTACCATTCACTTTCAGCTACGGTACTATGACATGCCCTGGA
TGAAGAGGAAGATGTGACCAATTCTCGGACTTTCTTTGCTGCCAAGATTGTCATTGGCATGGCTTTGGT
GGTATCATGCTAGTGTGGCATCGGCACTTCATCTTTATCACTGCCCTGGCCCGTACAAAAAGCTCC
GCAACCTACCAACTGCTTATCGCCAACCTGGCCATTCAGACTTCCTCGTGGCCATCGTGTGCTGCC
CTTTGAGATGGACTACTATGTGGTGCAGCAGCTCTCCTGGGAGCATGGTCATGTCCTGTGCGCCTCTGTC
AACTACTTGCGTACCGTCTCCCTCTACGCTCCACTAACGCCCTACTGGCCATTGCCATTGACAGGTATC
TGGCCATTGTGCACCCGCTGAGACCGCGGATGAAGTGTCAAACAGCCGCCGCGCTGATCTTCTGTTGTG
GTCAGTATCCATCCTCATCGCCATTCCAGCTGCCTACTTCACTGAGACCGTGTGGTATCGTGGAG
AGACAGGAGAAGATCTTCTGTGGTCAAGTCTGGCCGGTGGATCAGCAGTTCTACTACAGGTCCTATTTCC
TTTTGGTTTTCGGCCTCGAGTTCGTGGGCCCTGTAGTCGCCATGACCTTGTGCTATGCCAGGGTGTCCCG
GGAGCTCTGGTTCAAGGCGGTGCCAGGCTTCCAGACAGAGCAGATCCGCCGGAGGCTGCGCTGCCGCCG
AGGACTGTGCTGGGCTCGTGTGCTCCTCTCTGCCTATGTGCTGTGCTGGCTCCCTTCTATGGCTTCA
CTATCGTGCCTGACTTCTCCCTCCGTTTGTGAAGGAGAAGCACTACCTCACCGCTTCTATGTGGT
GGAGTGCATCGCCATGAGCAACAGCATGATCAATACGCTCTGCTTTGTGACTGTGAGGAATAACACCACT
AAGTACCTCAAGAGGATCCTGCGCTTCAAGTGGAGGCGCTCTCCAGCGGGAGCAAGGCCAGCGCTGACC
TCGACCTCAGGACCAGGGAATACCTGCCACCGAGGAGGTGGACTGCATCCGACTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224175 representing NM_021381
 Red=Cloning site Green=Tags(s)

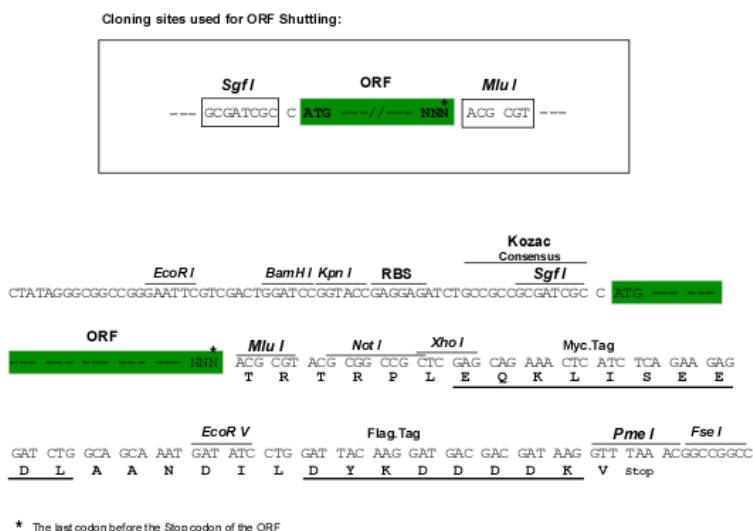
METTVGALGENTDTFTDFFSALDGHEAQTGSLPFTFSYGDYDMPLDEEEDVTSRTFFAAKIVIGMALV
 GIMLVCGIGNFIFITALARYKLRNLTNLLIANLAISDFLVAIVCCPFEMDYYVVRQLSWEHGHVLCASV
 NYLRTVSLYVSTNALLAIAIDRYLAIVHPLRPRMKCQTAAGLIFLVSVSILIAIPAAYFTTETVLVIVE
 RQEKIFCGQIWPVDQQFYRYSYFLLVFGLEFVGPVVAMTLCYARVSRELWFKAVPGFQTEQIRRRRCRR
 RTVLGLVCVLSAYVLCWAPFYGFIVRDFFPSVVFVKEKHLYTAFYVVECIAMSNMINTLCFVTVRNTS
 KYLKRILRLQWRASPSGSKASADLDLRTTGIPATEEVDCIRLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9018_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021381

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_021381.4](#)

RefSeq Size: 4073 bp

RefSeq ORF: 1182 bp

Locus ID: 58182

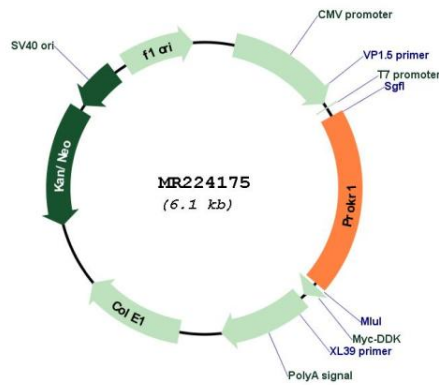
UniProt ID: [Q9JKL1](#)

Cytogenetics: 6 D1

MW: 45 kDa

Gene Summary: Receptor for prokineticin 1. Exclusively coupled to the G(q) subclass of heteromeric G proteins. Activation leads to mobilization of calcium, stimulation of phosphoinositide turnover and activation of p44/p42 mitogen-activated protein kinase. May play a role during early pregnancy (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224175