

Product datasheet for MR206570

Preb (NM_016703) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Preb (NM_016703) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Preb |
| Synonyms: | C85705 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR206570 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTCGGCGCCGGGTGTGGAGCTGTACCGGGCCCCGTTCCCGTTGTACGCGCTTCGGATAGACCCCA
AGACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGAGCTGCCAAGACCGGCATAAAGAATGGCGTGCATTT
TCTGCAGCTAGAGCTGATCAACGGGTGCCTGAGCGCTTCCTTGTGCACTCTCATGACACGGAGACACGG
GCCACCATGAATTTGGCGCTTGTGGTACATTCTTGTGCCGGACAGGATGCCAGTGCAGCTTCTTC
GTTTCCAGGTCCATCAACAGAAGGGCAGTAAAGCGGAGAAGTCAAGTTCACCCCGAAGGGGTTGAACCTCAA
GAGAAAGGGGGCTCCTCCAGCAGAGAAGAAATCGGGAGCACAAAGTTCACCCCGAAGGGGTTGAACCTCAA
GTAAGAATTTGGAGGCAGTACAGACAGACTTCAGCAATGAACCGCTGCAGAAAGTTGTGTGCTTCAACC
ATGATAACACCCTGCTTGCCACTGGAGGAAGTGTGGTCAATGTTTCGTGTCTGGAAGGTACCTAGCCTGGA
GAAAGTTCTGGAGTTCAAAGCCCATGAAGGGGAGATTGGAGATTTGACTTTGGGTCCTGATGGCAAGCTG
GTTACAGTGGGCTGGGACTTTAAGGCCTCTGTGTGGCAGAAGGATCAACTGGTGCACAGCTACAGTGGC
AAGAGAATGGACCAGCCTCTTCTAATACACCATAACCGCTACCAGGCTGCAGGTTTGGGCAGGTTCCAGA
TCAGCTCGGTGGGCTGCGACTTTCACAGTGCAGATACCCACAAGCGCCTACGTACGCCCCACCCTGC
TACCTCACAGCCTGGGACAGTTCACCTTCTTGCCTCTTCGGACCAGATCCTGTGGCCATGAGGTCATT
CCTGCCTCAGTGTCAAGTTCGGGTACCTTCTAGGCCTAGGCACGGTCACTGGCTCTGTGCGCCATCTA
CATAGCTTTCTCTCCAGCGCCTGTATTATGTGAAGGAGGCCCATGGCATTGTGGTAACAGATGTGACC
TTTCTACCTGAGAAGGGTTGTGGTCAAAGCTCCTTGGGCCCATGAAACTGCTCTTTTCTGTGGCTG
TGGATAGTCGTTGCCAGTTGCACCTGCTGCCTTACGGCGGAGTGTTCCTGTATGGCTTCTGCTCCTGCT
GTGTGTCGGCCTTATTATTGTGACCATCCTGCTGCTCCAGACTGCCTTCCGGGATTCTC

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206570 protein sequence
 Red=Cloning site Green=Tags(s)

MGRRRGVELYRAPFPLYALRIDPKTGLLIAAGGGGAAKTGIKNGVHFLQLELINGCLSASLLHSHDTETR
 ATMNLALAGDILAAGQDAQQLLRFQVHQKGSKAEKSGSKEQGPQRKGAPPAEKKSGAQVHPEGVELK
 VKNLEAVQTDFSNEPLQKVVCFNHDNTLLATGGTDGHVRVWVPSLEKVFKAHEGEIGDLTLGPDGKL
 VTVGWDFKASVWQKQDLVTQLQWQENGPASSNTPYRYQACRFQVDPQLGGLRFLFVQIPHKRLRQPPPC
 YLTAWDSSTFLPLRTRSCGHEVISCLSVSDSGTFLGLGTVTGSAIYIAFSLQRLYYVKEAHGIVVDVT
 FLPEKGGCPKLLGPHETALFSVAVDSRCQLHLLPSRRSVPVWLLLLLCVGLIIVTILLLLQTAFPGFL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_016703

ORF Size: 1254 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_016703.3](#)

RefSeq Size: 5471 bp

RefSeq ORF: 1254 bp

Locus ID: 50907

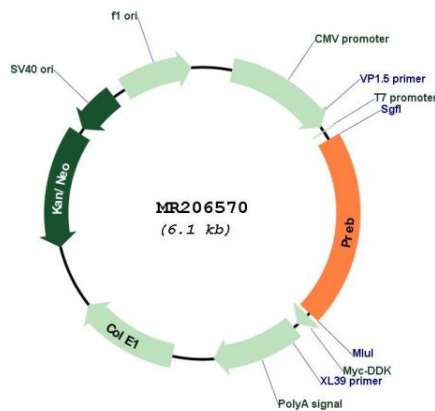
UniProt ID: [Q9WUQ2](#)

Cytogenetics: 5 B1

MW: 45.4 kDa

Gene Summary: Guanine nucleotide exchange factor that specifically activates the small GTPase SAR1B. Mediates the recruitment of SAR1B and other COPII coat components to endoplasmic reticulum membranes and is therefore required for the formation of COPII transport vesicles from the ER.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206570