

## Product datasheet for MC227214

### Preb (NM\_001294302) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Preb (NM_001294302) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Preb
Synonyms:	C85705
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227214 representing NM_001294302 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTCGGCGCCGGGTGTGGAGCTGTACCGGGCCCGTCCCGTTGTACGCGCTTCGGATAGACCCCA  
AGACTGGGCTGCTCATCGCTGCGGGCGGAGGAGGAGCTGCCAAGACCGGCATAAAGAATGGCGTGCATTT  
TCTGCAGCTAGAGCTGATCAACGGGTGCCTGAGCGCTTCCTTGCTGCACTCTCATGACACGGAGACACGG  
GCCACCATGAATTTGGCGCTTGTGGTACATTCTTGCTGCCGGACAGGATGCCAGTGCAGCTTCTTC  
GTTTCCAGGTCCATCAACAGAAGGGCAGTAAAGCGGAGAAGTCAAGTTCACCCCGAAGGGGTTGAACCTCAA  
GAGAAAGGGGGCTCCTCCAGCAGAGAAGAAATCGGGAGCACAAAGTTCACCCCGAAGGGGTTGAACCTCAA  
GTAAGAATTTGGAGGCAGTACAGACAGACTTCAGCAATGAACCGCTGCAGAAAGTTGTGTGCTTCAACC  
ATGATAACACCCTGCTTGCCACTGGAGGAAGTGTGGTATGTTTCGTGTCTGGAAGGTACCTAGCCTGGA  
GAAAGTTCTGGAGTTCAAAGCCCATGAAGGGGAGATTGGAGATTTGACTTTGGGTCCTGATGGCAAGCTG  
GTTACAGTGGGCTGGGACTTTAAGGCCTCTGTGTGGCAGAAGGATCAACTGGTGCACAGCTACAGTGGC  
AAGAGAATGGACCAGCCTCTTCTAATACACCATAACCGCTACCAGGCCTGCAGGTTTGGGCAGGTTCCAGA  
TCAGCTCGGTGGGCTGCGACTTTCACAGTGCAGATACCCACAAAGCCCTACGTACCCCCACCCTGC  
TACCTCACAGCCTGGGACAGTTCACCTTCTTGCCTCTTCGGACCAGATCCTGTGGCCATGAGGTCATTT  
CCTGCCCTCAGTGCAGTATTTCGGGTACCTTCTAGGCCTAGGCACGGTCACTGGCTCTGTGCGCCATCTA  
CATAGCTTTCTCTCCAGGGAGTGTCTGTATGGCTTCTGCTCCTGCTGTGTGTCGGCCTTATTATTG  
TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001294302
<b>Insert Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001294302.1</a></u> , <u><a href="#">NP_001281231.1</a></u>
<b>RefSeq Size:</b>	5311 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	50907
<b>Cytogenetics:</b>	5 B1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate exon in the 3' coding region, resulting in a frameshift and an early stop codon, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to isoform 1.</p>