

## Product datasheet for **MR223997**

### Prepl (NM\_001163623) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prepl (NM_001163623) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prepl
Synonyms:	2810457N15Rik; 9530014L06Rik; D030028O16Rik; mKIAA0436
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR223997 representing NM\_001163623  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATGCATTTGAAAAAGTGAGAACAAGACTGGAACACAGCCACAGGAAGAGTACGAAGTCGTCATG  
CAGAGATTAACATGGCGGCTTTGTTTATTATCAAGAAGTTGCTGCTTGGTTTCGTTCCAAAGACGAAGA  
AGCTGACAGTGATAATTATGAAGTTTTATTCAACCTGGAAGAAGTTAAATTGGATCAGCCTTTCATTGAT  
TGCATCAGAGTTGCTCCTGATGAGAAATACGTGGCTGCCAAGATAAGGACGGAGGATTCTGAAACCTCCA  
CCTTAGTAGTTGTGAAGCTCAGTGACCAGCCTGTAATGGAAGCGTCGTTCCCAAACGTGTCCAGTTTCGA  
ATGGGTGAAGGATGAAGAAGATGAAGATGTCTTATTCTACACCTTCCAAAGGAACCTTCGCTGCCACGAT  
GTGTATCGAGCCACATTTGGTGACAACAAGCGCAATGAACGGTTCTACACAGAGAAAGACCCAAGCTATT  
TTGTCTTCTCTACCTTACAAAAGACAGTCGTTTCTCACACTGAATATTATGAACAAGACGACTCCGA  
GGTGTGGTTGATAGATGGCCTGAGCCCGTGGGACCCACAGTCCTTATTGAGAAGAGGATACACGGAATG  
CTTTACTATGTTGAGCATCGAGATGATGAGTTATACATCCTGACGAATGTTGGAGAACCTACAGAATTCA  
AGCTGATGCGGACGGCAGCTGATGCCCCGCTATTATGAATTGGGATTTATTTTTCAAAATGAAGAGAAA  
TACCAAGTTGTAGACTTGGACATGTTAAGGACCACTGTGTTCTGTTCTGAAACACAGCAATCTCCTC  
TATGTTAATGTGATTGGTCTGGCCGACGACTCAGTGCGCTCCCTAAAGCTCCCGCCTTGGGCTGTGGAT  
TCATAATGGATACAAATCTGACCCAAAGAAGTCCCTTTCAGCTTTGCTCTCCAATAAGACCCCAAAA  
ATATTACATACAAATTTGAGAAGGCAAACTGTTTGGAGAACTGGTCACGAAGATCCGATTACAAAG  
ACCAGCCGTGTTTACGCATAGAAGCCAAAAGCAAGGATGGAAAGTTAGTGCCCATGACAGTTTTTCACA  
AAACCGATTCTGAGGACCTGCAGAGGAAGCCTCTTTGGTGCACGTCATGGAGCGTACGGAATGGACCT  
GAAAAATGAATTTACGGCCTGAAAAGCGGGTCTTGGTGGATGATGGATGGATCCTTAGCTTATTGCCATGTT  
AGGGGTGGTGGCGAGCTAGGTCTCCAGTGGCATGCCGATGGCCGACTAACTAAAAAGCTCAATGGCCTTG  
CTGACTTAGTGGCTTGCAATTAAGACGCTTACAGCCAGGGCTTTTCTCAGCCGAGCCTAACCAACGCTGAG  
CGCTTTCAGTGTGGAGGTGTGCTCGTGGGAGCACTGTGTAATTCTAAGCCAGAGCTCCTGAGAGCCGTG  
ACCCTGGAGGCACCTTCTTGGATGTCCTCAATACCATGTTGGATACCACCCTTCTCTGACACTGGAAG  
AGTTGGAAGAGTGGGGAAACCCGTCATCTGATGAGAAACACAAGAAGTACATAAAGCGCTACTGTCCCTG  
CCAGAACATTAAGCCTCAGCATTATCCTTCAGTTCACATCACAGCCTATGAAAACGATGAGCGAGTGCCG  
CTGAAAGGAATCGTGAACACACAGAGAAGCTTAAGGAGGCCGTGGCTGAGCACACCAAGGGAGCGGGTG  
AAGGCTATCAGCCCCCAACATTATCCTAGATATTCAGCCTGGGGGAACACGATGATTGAGGATTCTCA  
CAAAAAGATCACAAACCAGATGAAATTCCTATATGAGGAAGTGGACTTGACAGCACTGATGCTTTCGAG  
GCGCTGAAGAAATACCTAAAGTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223997 representing NM\_001163623  
 Red=Cloning site Green=Tags(s)

MDAFEKVRTRLETQPQEEYEVVNAEIKHGGFVYQEGCCLVRSKDEEADSDNYEVLFNLEELKLDQPFID  
 CIRVAPDEKYVAAKIRTEDSETL VVVKLSDQPVMEASFNVSSFVWVWVDEDEDVLFYTFQRNLRCHD  
 VYRATFGDNKRNERFYTEKDP SYFVFL YLTKDSRFLTLNIMNKTTSEVWLIDGLSPWDPVLIQKRIHGM  
 LYYVEHRDDEL YILTNVGEPTFEKLMRTAADAPAIMNWDLFFTMKRNTKVVDLDMFKDHCVLFLKHSNLL  
 YVNVIGLADDSVRSCLKPPWACGFIMDTNSDPKNCFFQLCSPIRPPKYTYKFAEGKLFEEETGHEDPITK  
 TSRVLR IEAKSKDGKLVPMTVFHKTDSEDLQRKPLL VHVYGYGMDLKMFRPEKRVLVDDGWILAYCHV  
 RGGGELGLQWHADGRLTKKLNGLADLVACIKTLHSQGF SQPSLTTL SAFSAGGVLVGALCNSKPELLRAV  
 TLEAPFLDVLNTMLD TTTPLTLEEEWGNPSSDEKHKNYIKRYCPCQNIKPQHYPVSHITAYENDERVP  
 LKGI VNYTEKLKEAVA EHTKGAGEGYQPPNI ILDIQPGGNHVI ED SHKITTQMKFLYEELGLDSTDAFE  
 ALKKYLKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

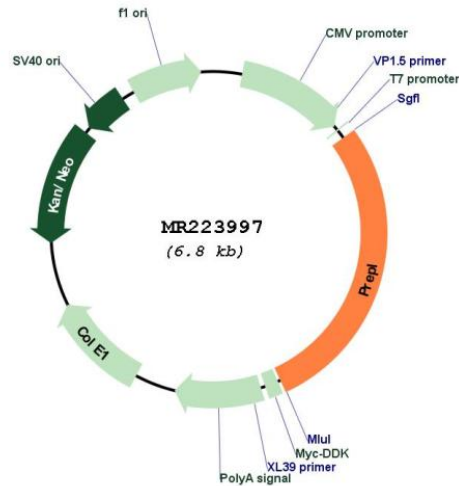
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001163623

ORF Size: 1914 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\\_001163623.1](#), [NP\\_001157095.1](#)

RefSeq Size: 3294 bp

RefSeq ORF: 1917 bp

Locus ID: 213760

UniProt ID: [Q8C167](#)

Cytogenetics: 17 E4

MW: 73.7 kDa

**Gene Summary:** Probable serine peptidase whose precise substrate specificity remains unclear. Does not cleave peptides after a arginine or lysine residue. May play a role in the regulation of synaptic vesicle exocytosis.[UniProtKB/Swiss-Prot Function]