

Product datasheet for **MG224398**

Prepl (NM_001163622) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prepl (NM_001163622) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prepl
Synonyms:	2810457N15Rik; 9530014L06Rik; D030028O16Rik; mKIAA0436
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG224398 representing NM_001163622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCAGACGGCCAAATTCTCTCTCCGAGCTTTGAAGCATAGTATTCCTCATCTTGGAACTGCATGC
 AGAAACAGAGTTACCGTAACGTCGCTGGTCCTTATTACAGTAGAGTAAGATTGAAAAAGTACCACCTAAC
 CAAGTGTCTGCAGAATAAACCCAGGATAGCAGGATTAGCAAGAAACATCCCAAGTCGGAGCTTCTCGTGT
 AAGGATCTTCTGCCTATTAAGCCAGAAAGTAAAAAGCCATTTCTGAAAACATGGATGCATTTGAAAAAG
 TGAGAACAAGACTGGAACACAGCCACAGGAAGAGTACGAAGTCGTCATGCAGAGATTAACATGGCGG
 CTTTGTATTATCAAGAAGTTGCTGCTTGGTTCGTTCCAAAGACGAAGAAGCTGACAGTGATAATTAT
 GAAGTTTTATTCAACCTGGAAGAACTTAAATTGGATCAGCCTTTCATTGATTGCATCAGAGTTGCTCCTG
 ATGAGAAATACGTGGCTGCCAAGATAAAGACGGAGGATTCTGAAACCTCCACCTTAGTAGTTGTGAAGCT
 CAGTGACCAGCCTGTAATGGAAGCGTCGTTCCAAACGTGTCCAGTTTCGAATGGGTGAAGGATGAAGAA
 GATGAAGATGTCTTATTCTACACCTTCCAAAGGAACCTTCGCTGCCACGATGTGTATCGAGCCACATTTG
 GTGACAACAAGCGCAATGAACGGTTCTACACAGAGAAAGACCCAAAGCTATTTTGTCTTCTCTACCTTAC
 AAAAGACAGTCGTTTCTCACACTGAATATTATGAACAAGACGACTTCCGAGGTGTGGTTGATAGATGGC
 CTGAGCCCGTGGGACCCACCAGTCCTTATTGAGAAGAGGATACACGGAATGCTTTACTATGTTGAGCATC
 GAGATGATGAGTTATACATCCTGACGAATGTTGGAGAACCTACAGAATCAAGCTGATGCGGACGGCAGC
 TGATGCCCTGCTATTATGAATTGGGATTTATTTTACAATGAAGAGAAATACCAAGTTGTAGACTTG
 GACATGTTTAAAGGACCACTGTGTTCTGTTCCCTGAAACACAGCAATCTCCTCTATGTTAATGTGATTGGTC
 TGGCCGACGACTCAGTGCCTCCCTAAAGCTCCCGCTTGGCCCTGTGGATTGATAATGGATACAAATTC
 TGACCCAAAGAAGTGCCTTTTCAGCTTTGCTCTCCAATAAGACCCCAAAATATTACACATACAAATTT
 GCAGAAGGCAAACTGTTTGGGAAACTGGTCACGAAGATCCGATTACAAAAGACCAGCCGTGTTTTACGCA
 TAGAAGCCAAAAGCAAGGATGGAAGTTAGTGCCCATGACAGTTTTTACAAAACCGATTCTGAGGACCT
 GCAGAGGAAGCCTCTCTTGGTGCACGTCTATGGAGCGTACGGAATGGACCTGAAAATGAATTTAGGCTT
 GAAAAGCGGTCTTGGTGGATGATGGATGGATCTTAGCTTATTGCCATGTTAGGGGTGGTGGCGAGCTAG
 GTCTCCAGTGGCATGCCGATGGCCGACTAACTAAAAGCTCAATGGCCTTGTGACTTAGTGCTTGCAT
 TAAGACGCTTACAGCCAGGGCTTTTCTCAGCCGAGCCTAACACGCTGAGCGCTTTCAGTGTGGAGGT
 GTGCTCGTGGGAGCACTGTGAATTCTAAGCCAGAGCTCCTGAGAGCCGTGACCCTGGAGGCACCTTCT
 TGGATGTCTCAATACCATGTTGGATACCACCTTCTCTGACACTGGAAGAGTTGGAAGAGTGGGGGAA
 CCCGTATCTGATGAGAAACACAAGAACTACATAAAGCGCTACTGTCCCTGCCAGAACATTAAGCCTCAG
 CATTATCCTTCAGTTCACATCACAGCCTATGAAAACGATGAGCGAGTGCCGCTGAAAAGGAATCGTGAAC
 ACACAGAGAAGCTTAAGGAGGCCGTGGCTGAGCACACCAAGGGAGCGGGTGAAGGCTATCAGCCCCCAA
 CATTATCCTAGATATTAGCCTGGGGGGAACACGTGATTGAGGATTCACAAAAAGATCACAAACCCAG
 ATGAAATTCCTATATGAGGAACCTGGACTTGACAGCACTGATGCTTTCGAGGCGCTGAAGAAATACCTAA
 AGTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG224398 representing NM_001163622
 Red=Cloning site Green=Tags(s)

MLQTAKFSLRALKHSIPHLGNMCQKQSYRNVAGPYYSRVRLKKYHLTKCLQNKPRIAGLARNIPSRFSFC
 KDLLPIKPESEKPISENMDAFEKVRTRLETQPQEEYEVVNAEIKHGGFVYYQEGCCLVRSKDEEADSDNY
 EVLFLNLEELKLDQPFIDCIRVAPDEKYVAAKIRTEDSETSTLVVVKLSDQPVMEASFNVSSFVWVKDEE
 DEDVLFYTFQRNLRCHDVYRATFGDNKRNERFYTEKDPYSYFVFLYLTKDSRFLTLNIMNKTSEVWLIDG
 LSPWDPVLIQKRIHGMLYYVEHRDDELYILTNGEPTFEFKLMRTAADAPAIMNWDLFFTMKRNTKVVDL
 DMFKDHCVLFLKHSNLLYVNVIGLADDSVRSCLKLPPWACGFIMDTNSDPKNCPFQLCSPIRPPKYTYKF
 AEGKLFEEETGHEDPITKTSRVLRIEAKSKDGKLVPMTVFHKTDSEDLQRKPLLVHVGAYGMDLKMFRP
 EKRVLVDDGWILAYCHVRGGGELGLQWHADGRLTKKLNGLADLVACIKTLHSQGFSPSLTTLFAFSAGG
 VLVGALCNSKPELLRAVTLAPFLDVLNTMLDITLPLTLEELIWWGNPSSDEKHKNYIKRYCPCQNIKPKQ
 HYPVSVHITAYENDERVPLKGIYNYTEKLKEAVAHTKGAGEGYQPPNIILDIQPGGNHVIEDSHKKITQ
 MKFLYEELGLDSTDAFEALKKYLKF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163622

ORF Size: 2175 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_001163622.1](#), [NP_001157094.1](#)

RefSeq Size: 3830 bp

RefSeq ORF: 2178 bp

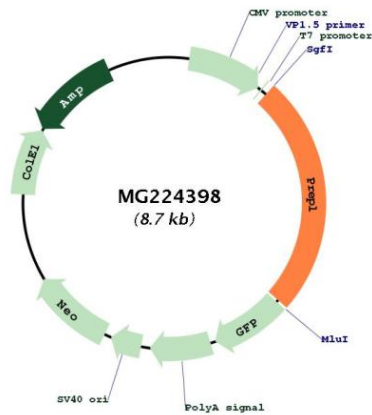
Locus ID: 213760

UniProt ID: [Q8C167](#)

Cytogenetics: 17 E4

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]

Product images:



Circular map for MG224398