

Product datasheet for MC226596

Prnp (NM_001278256) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prnp (NM_001278256) Mouse Untagged Clone
Tag: Tag Free
Symbol: Prnp
Synonyms: AA960666; AI325101; CD230; Prn-i; Prn-p; PrP; prP27-30; prP33-35C; PrP^{Sc}; PrPC; PrP^{Sc}; Sinc
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226596 representing NM_001278256
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGAACCTTGGCTACTGGCTGCTGGCCCTCTTTGTGACTATGTGGACTGATGTGGCCTCTGCAAAA
 AGCGGCCAAAGCCTGGAGGTGGAACACCGGTGGAAGCCGGTATCCGGGCAGGGAAGCCCTGGAGGCAA
 CCGTTACCCACCTCAGGGTGGCACCTGGGGGCAGCCCCACGGTGGTGGCTGGGGACAACCCCATGGGGGC
 AGCTGGGGACAACCTCATGGTGGTAGTTGGGGTCAGCCCCATGGCGGTGGATGGGGCCAAGGAGGGGGTA
 CCCATAATCAGTGAACAAGCCCAGCAAACCAAAACCAACCTCAAGCATGTGGCAGGGGCTGCGGCAGC
 TGGGGCAGTAGTGGGGGCCCTTGGTGGCTACATGCTGGGGAGCGCCATGAGCAGGCCCATGATCCATTTT
 GGCAACGACTGGGAGGACCGCTACTACCGTGAAAAATGTACCGTACCCTAACCAAGTGTACTACAGGC
 CAGTGGATCAGTACAGCAACCAGAACAACCTTCGTGCACGACTGCGTCAATATCACCATCAAGCAGCACAC
 GGTCACCACCACCACCAAGGGGGAGAACCTCACCGAGACCGATGTGAAGATGATGGAGCGCGTGGTGGAG
 CAGATGTGCGTCACCCAGTACCAGAAGGAGTCCCAGGCCATTACGACGGGAGAAGATCCAGCAGCACCCG
 TGCTTTTCTCTCCCTCCTGTATCCTCTCATCTCCTCCTCATCTTCTCTGATCGTGGGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001278256
Insert Size: 765 bp



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OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001278256.1, NP_001265185.1</u>
RefSeq Size:	3732 bp
RefSeq ORF:	765 bp
Locus ID:	19122
UniProt ID:	<u>P04925</u>
Cytogenetics:	2 64.07 cM
Gene Summary:	<p>Its primary physiological function is unclear. May play a role in neuronal development and synaptic plasticity. May be required for neuronal myelin sheath maintenance. May promote myelin homeostasis through acting as an agonist for ADGRG6 receptor. May play a role in iron uptake and iron homeostasis. Soluble oligomers are toxic to cultured neuroblastoma cells and induce apoptosis (in vitro) (By similarity). Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu(2+) or ZN(2+) for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains (PubMed:12732622, PubMed:16492732, PubMed:19242475, PubMed:19568430).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.</p>