

Product datasheet for **MR227504**

Prnp (NM_011170) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prnp (NM_011170) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prnp
Synonyms:	AA960666; AI325101; CD230; Prn-i; Prn-p; PrP; prP27-30; prP33-35C; PrP ^{Sc} ; PrPC; PrP ^{Sc} ; Sinc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227504 representing NM_011170 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACCTTGGCTACTGGCTGCTGGCCCTCTTTGTGACTATGTGGACTGATGTCGGCCTCTGCAAAA
AGCGGCCAAAGCCTGGAGGGTGGAAACACCGGTGGAAGCCGGTATCCGGGCAGGGAAGCCCTGGAGGCAA
CCGTTACCCACCTCAGGGTGGCACCTGGGGGCAGCCCCACGGTGGTGGCTGGGGACAACCCATGGGGGC
AGCTGGGGACAACCTCATGGTGGTAGTTGGGTGAGCCCCATGGCGGTGGATGGGGCCAAGGAGGGGTA
CCCATAATCAGTGAACAAGCCAGCAACCAAAACCAACCTCAAGCATGTGGCAGGGGCTGCGGCAGC
TGGGGCAGTAGTGGGGGGCCTTGGTGGCTACATGCTGGGGAGCGCCATGAGCAGGCCCATGATCCATTTT
GGCAACGACTGGGAGGACCGCTACTACCGTGAAAACATGTACCGTACCCTAACCAAGTGTACTACAGGC
CAGTGGATCAGTACAGCAACCAGAACTTCGTGCACGACTGCGTCAATATCACCATCAAGCAGCACAC
GGTCACCACCACCACCAAGGGGGAAGTTCACCGAGACCGATGTGAAGATGATGGAGCGCGTGGTGGAG
CAGATGTGCGTCACCCAGTACCAGAAGGAGTCCCAGGCCATTACGACGGGAGAAGATCCAGCAGCACCG
TGCTTTTCTCCTCCCTCCTGTCTCCTCCTCATCTCCTCCTCATCTTCTCTGATCGTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227504 representing NM_011170
 Red=Cloning site Green=Tags(s)

MANLGYWLLALFVTMWTDVGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGTWGQPHGGGWGQPHGG
 SWGQPHGGSWGQPHGGGWGQGGGTHNQWNKPSKPKTNLKHVAGAAAAGAVVGGLGGYMLGSAMSRPMIHF
 GNDWEDRYRENMYRYPNQVYYRPPVDQYSNQNNFVHDCVNITIKQHTVTTTTKGFNTETDVKMMERVVE
 QMCVTQYQKESQAYYDGRSSSTVLFSSPPVILLISFLIFLIVG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1797_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011170

ORF Size: 762 bp

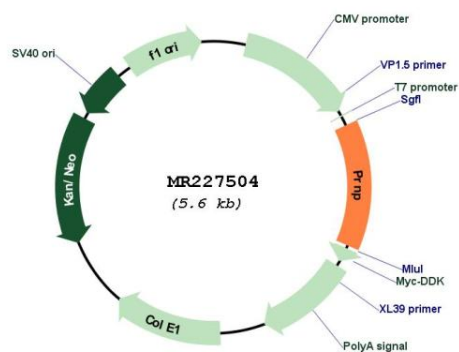
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_011170.3</u>
RefSeq Size:	2206 bp
RefSeq ORF:	765 bp
Locus ID:	19122
UniProt ID:	<u>P04925</u>
Cytogenetics:	2 64.07 cM
MW:	28.4 kDa
Gene Summary:	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]

Product images:



Circular map for MR227504