

Product datasheet for **MC226740**

Nptn (NM_001293673) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nptn (NM_001293673) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nptn
Synonyms: AW554172; Sdfr1; SDR-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226740 representing NM_001293673
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGGGCTCGTCGCTCCCGGCGCCCTGGCCCTCTCGCTCTTGCTGGTCTCTGGCTCGCTCCTCCAG
GGCCAGGCGCTGCTCAGAACGAACCAAGAATTGCACCAGTGAAGAGGTCATTATTCGAGAAAGCCTCCT
TCCTGTCAACCCTGCAGTGAACCTCACTCCAGCTCTCACACCCTTATGTACAGCTACTGGACAAGGAAT
GGGGTAGAACTACTGCCACCCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCAAGAGCTG
AGGATTCAGGCGAATACCACTGTGTATATCATTTTTGTCAGCGCTCCTAAAGCAAATGCCACCATTGAAGT
GAAAGCTGCTCCTGACATCACTGGCCATAAACGAAGTAAAAACAAAAATGAAGGGCAGGATGCTATGATG
TACTGCAAGTCAGTTGGCTACCCCCACCCAGAGTGGATATGGCGCAAGAAGGAGAATGGTGTGTTTGAGG
AGATTTCTAATAGCTCTGGTCGTTCTTCATCACCAACAAGGAGAATTACACTGAATTGAGTATTGTGAA
TCTCCAAATCACAGAAGATCCTGGAGAGTATGAATGTAATGCCACCAACTCCATTGGCTCTGCCTCCGTT
TCCACCGTCTCAGGGTACGGAGCCACCTTGCCCACTTTGGCCTTTCTGGGAATTCTGGCTGAAATCA
TCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGTGATGCGGCC
AATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACCTTGCCGACAGAAAACACAAAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001293673
Insert Size: 834 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_001293673.1, NP_001280602.1</u>
RefSeq Size:	2065 bp
RefSeq ORF:	834 bp
Locus ID:	20320
UniProt ID:	<u>P97300</u>
Cytogenetics:	9 B
Gene Summary:	<p>Probable homophilic and heterophilic cell adhesion molecule involved in long term potentiation at hippocampal excitatory synapses through activation of p38MAPK. May also regulate neurite outgrowth by activating the FGFR1 signaling pathway. May play a role in synaptic plasticity (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 3. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 3.</p>