

## Product datasheet for **MC209373**

### **Nptn (NM\_009145) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nptn (NM\_009145) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nptn  
**Synonyms:** AW554172; Sdfr1; SDR-1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC209373 representing NM\_009145  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGGCTCGTCGCTCCCGGGCGCCCTGGCCCTCTCGCTCTTGCTGGTCTCTGGCTCGCTCCTCCAG  
 GGCCAGGCGTCTCAGAACGAACCAAGAATTGTCACCAGTGAAGAGGTCATTATTCGAGAAAGCCTCCT  
 TCCTGTCACCCTGCAGTGAACCTCACTTCCAGCTCTCACACCCTTATGTACAGCTACTGGACAAGGAAT  
 GGGGTAGAACTCACTGCCACCCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCAAGAGCTG  
 AGGATTCAGGCGAATACCACTGTGTATATCATTGTCAGCGCTCCTAAAGCAAATGCCACCATTGAAGT  
 GAAAGCTGCTCCTGACATCACTGGCCATAAACGAAGTAAAACAAAAATGAAGGGCAGGATGCTATGATG  
 TACTGCAAGTCAGTTGGCTACCCCCACCCAGAGTGGATATGGCGCAAGAAGGAGAATGGTGTGTTTGAGG  
 AGATTTCTAATAGCTCTGGTCGCTTCTTCATCACCAACAAGGAGAATTACACTGAATTGAGTATTGTGAA  
 TCTCCAAATCACAGAAGATCCTGGAGAGTATGAATGTAATGCCACCAACTCCATTGGCTCTGCCTCCGTT  
 TCCACCGTCTCAGGGTACGGAGCCACCTTGCCCACTTTGGCCTTTCTTGGAATCTGGCTGAAATCA  
 TCATCCTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGATGATGATGA  
 ACCAGCTGGGCAATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAAACACA  
 AAT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_009145  
**Insert Size:** 846 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009145.2</a> , <a href="#">NP_033171.2</a>
<b>RefSeq Size:</b>	2077 bp
<b>RefSeq ORF:</b>	846 bp
<b>Locus ID:</b>	20320
<b>UniProt ID:</b>	<a href="#">P97300</a>
<b>Cytogenetics:</b>	9 B
<b>Gene Summary:</b>	<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 (1) lacks an alternate in-frame exon and uses an alternate in-frame splice junction compared to variant 3. The resulting isoform (1) has the same N- and C-termini but is shorter compared to isoform 3. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>