

## Product datasheet for MR216749

### Nptn (NM\_009145) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nptn (NM_009145) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nptn
Synonyms:	AW554172; Sdfr1; SDR-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216749 representing NM_009145 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGGCTCGCTCCCCGGCGCCCTGGCCCTCTCGCTCTTGGTCTCTGGCTCGCTCCTCCAG  
GGCCAGGCGCTGCTCAGAACGAACCAAGAATTGTACCAGTGAAGAGGTCATTATTCGAGAAAGCCTCCT  
TCCTGTCACCCTGCAGTGAACCTCACTCCAGCTCTCACACCCTTATGTACAGCTACTGGACAAGGAAT  
GGGGTAGAACTCACTGCCACCCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCAAGAGCTG  
AGGATTCAGGCGAATACCACTGTGTATATCATTTTGTACAGCGCTCCTAAAGCAAATGCCACCATTGAAGT  
GAAAGCTGCTCCTGACATCACTGGCCATAAACGAAGTAAAACAAAAATGAAGGGCAGGATGCTATGATG  
TACTGCAAGTCAGTTGGCTACCCCCACCCAGAGTGGATATGGCGCAAGAAGGAGAATGGTGTGTTTGAGG  
AGATTTCTAATAGCTCTGGTCGCTTCTTCATCACCAACAAGGAGAATTACACTGAATTGAGTATTGTGAA  
TCTCCAAATCACAGAAGATCCTGGAGAGTATGAATGTAATGCCACCAACTCCATTGGCTCTGCCTCCGTT  
TCCACCGTCTCAGGGTACGGAGCCACCTTGCCCACTTTGGCCTTTCTTGGGAATTCTGGCTGAAATCA  
TCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGGCCAGATGAGGTTCTGATGATGATGA  
ACCAAGTGGGCAATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAACACA  
AAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216749 representing NM\_009145  
 Red=Cloning site Green=Tags(s)

MSGSSLPGALALSLLLVSGLLPGPAAQNEPRIVTSEEVIRESLLPVTLCQNL TSSHTLMYSYWTRN  
 GVELTATRKNASNMEYRINKPRAEDSGEYHCVYHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDAMM  
 YCKSVGYPHPEWIWRKKENGVFEEISNSSGRFFITNKENYTELSIVNLQITEDPGEYECNATNSIGSASV  
 STVLRVRSHLAPLWPFLLGILAEIILVVIIVVYEKRKRPEVDPDDDEPAGPMKTNSTNNHKDKNLRQRNT  
 N

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9076\\_b12.zip](https://cdn.origene.com/chromatograms/mm9076_b12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_009145

**ORF Size:** 843 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\\_009145.2](#), [NP\\_033171.2](#)

**RefSeq Size:** 2077 bp

**RefSeq ORF:** 846 bp

**Locus ID:** 20320

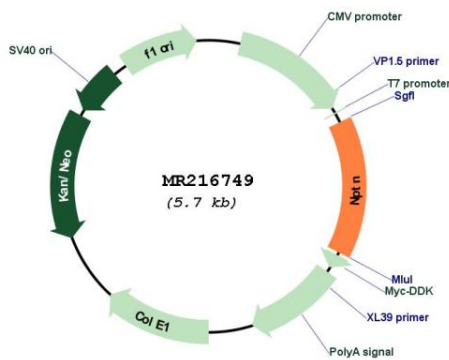
**UniProt ID:** [P97300](#)

**Cytogenetics:** 9 B

**MW:** 31.3 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR216749