

Product datasheet for MR228951

Nptn (NM_001293673) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nptn (NM_001293673) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nptn
Synonyms: AW554172; Sdfr1; SDR-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228951 representing NM_001293673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCGGGCTCGTCGCTCCCGGCGCCCTGGCCCTCTCGCTCTTGCTGGTCTCTGGCTCGCTCCTCCAG
GGCCAGGCGCTGCTCAGAACGAACCAAGAATTGCACCAGTGAAGAGGTCATTATTCGAGAAAGCCTCCT
TCCTGTCACCCTGCAGTGAACCTCACTCCAGCTCTCACACCCTTATGTACAGCTACTGGACAAGGAAT
GGGGTAGAACTACTGCCACCCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCAAGAGCTG
AGGATTCAGGCGAATACCACTGTGTATATCATTTTTGTCAGCGCTCCTAAAGCAAATGCCACCATTGAAGT
GAAAGCTGCTCCTGACATCACTGGCCATAAACGAAGTAAAAACAAAAATGAAGGGCAGGATGCTATGATG
TACTGCAAGTCAGTTGGCTACCCCCACCCAGAGTGGATATGGCGCAAGAAGGAGAATGGTGTGTTTGAGG
AGATTTCTAATAGCTCTGGTCGTTCTTCATCACCAACAAGGAGAATTACACTGAATTGAGTATTGTGAA
TCTCCAAATCACAGAAGATCCTGGAGAGTATGAATGTAATGCCACCAACTCCATTGGCTCTGCCTCCGTT
TCCACCGTCTCAGGGTACGGAGCCACCTTGCCCACTTTGGCCTTTCTGGGAATTCTGGCTGAAATCA
TCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGTGCTGGGCC
AATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCCGACAGAAACACAAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228951 representing NM_001293673
Red=Cloning site Green=Tags(s)

MSGSSLPGALALSLLLVSGSLLPGPGAQNEPRIVTSEEVIRESLLPVTLCQNL TSSSHTLMYSYWTRN
 GVELTATRKNASNMEYRINKPRAEDSGEYHCVYHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDAMM
 YCKSVGYPHPEWIWRKKENGVFEEISNSSGRFFITNKENYTELSIVNLQITEDPGEYECNATNSIGSASV
 STVLRVRSHLAPLWPFLLGILAEIILVVIIVVYEKRKRDPDEVPDAGPMKTNSTNNHKDKNLRQRNTN

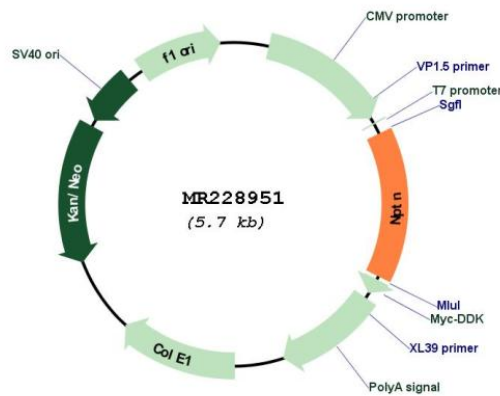
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293673
ORF Size: 831 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:	<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:	NM_001293673.1 , NP_001280602.1
RefSeq Size:	2065 bp
RefSeq ORF:	834 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]