

Product datasheet for **MG216749**

Nptn (NM_009145) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nptn (NM_009145) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nptn
Synonyms: AW554172; Sdfr1; SDR-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216749 representing NM_009145
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCTCGCTCCCCGGCGCCCTGGCCCTCTCGCTCTTGTGGTCTCTGGCTCGCTCCTCCAG
GGCCAGGCGTCTCAGAACGAACCAAGAATTGTCACCAGTGAAGAGGTCATTATTCGAGAAAGCCTCCT
TCCTGTCACCTGCAGTGAACCTCACTCCAGCTCTCACACCCTTATGTACAGCTACTGGACAAGGAAT
GGGTAGAACTCACTGCCACCCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCAAGAGCTG
AGGATTCAGGCGAATACCACTGTGTATATCATTGTCAGCGCTCCTAAAGCAAATGCCACCATTGAAGT
GAAAGCTGCTCCTGACATCACTGGCCATAAACGAAGTAAAACAAAAATGAAGGGCAGGATGCTATGATG
TACTGCAAGTCAGTTGGCTACCCCCACCCAGAGTGGATATGGCGCAAGAAGGAGAATGGTGTGTTTGAGG
AGATTTCTAATAGCTCTGGTCGCTTCTTCATCACCAACAAGGAGAATTACACTGAATTGAGTATTGTGAA
TCTCAAATCACAGAAGATCCTGGAGAGTATGAATGTAATGCCACCAACTCCATTGGCTCTGCCTCCGTT
TCCACCGTCTCAGGGTACGGAGCCACCTTGCCCACTTTGGCCTTTCTTGGGAATTCTGGCTGAAATCA
TCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGGCCAGATGAGGTTCTGATGATGATGA
ACCAGCTGGCCAATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAACACA
AAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216749 representing NM_009145
 Red=Cloning site Green=Tags(s)

MSGSSLPGALALSLLLVSGSLLPGPGAAQNEPRIVTSEEVIRESLLPVTLCQNL TSSSHTLMYSYWTRN
 GVELTATRKNASNMEYRINKPRAEDSGEYHCVYHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDAMM
 YCKSVGYPHPEWIWRKKENGVFEEISNSSGRFFITNKENYTELSIVNLQITEDPGEYECNATNSIGSASV
 STVLRVRSHLAPLWPFLLGILAEIILVVIIVVYEKRKRDPDEVDDDEPAGPMKTNSTNNHKDKNLRQRNT
 N

TRTRPLE - GFP Tag - V

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

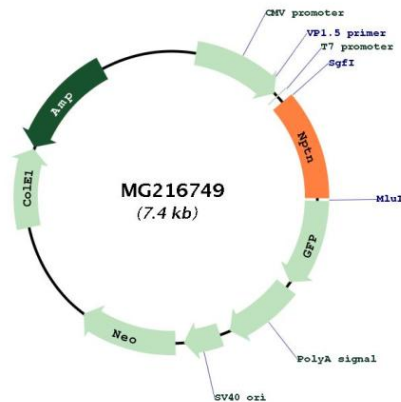
Locus ID: 20320

UniProt ID: [P97300](#)

Cytogenetics: 9 B

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 MG216749