

Product datasheet for **RC228317**

NPTN (NM_001161363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NPTN
Synonyms:	GP55; GP65; np55; np65; SDFR1; SDR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC228317 representing NM_001161363
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGTTCTGTCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCCTCCAG
GGCCAGGCGCCGCTCAGAACGCTGGGTTTGTCAAGTCGCCCATGTCAGAACTAAGCTCACGGGGGACGC
CTTTGAGCTGTACTGTGACGTGGTGGGAGCCCCACGCCAGAGATCCAGTGGTGGTACGCAGAAGTCAAC
CGGGCAGAGTCTTTCAGACAGCTGTGGGACGGTCTCGGAAGCGCCGTGTACCGTAAACACCGCCTACG
GGTCAAACGGCGTGAGTGTGCTGAGAATAACCCGGCTCACCTTGGAGGACTCTGGGACTTACGAGTGCAG
GGCCAGCAACGACCCCAAGAGGAATGACTTGAGGCAAAACCCCTCCATAACATGGATTTCGAGCCAGGCC
ACCATAAGCGTCCTTCAGAAGCCAAGGATTGTCAACAGTGAAGAGGTCAATTTCGAGACAGCCCTGTTT
TCCCTGTACCCCTGCAGTGTAACTCACCTCCAGCTCTCACCCCTTACATACAGCTACTGGACAAGAA
TGGGGTGGAAGTGAAGTGCCTCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCGAGAGCT
GAGGATTTCAGGCGAATACCACTGCGTATATCACTTTGTGAGCGCTCCTAAAGCAAAACGCCACCATTTGAAG
TGAAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAGAACAGAATGAAGGGCAGGATGCCACTAT
GTATTGCAAGTCAGTTGGTACCCCAACCCAGACTGGATATGGCGCAAGAAGGAGAACGGGATGCCATG
GACATTGTCAATACCTCTGGCCGCTTCTTCATCATCAACAAGGAAAATTACACTGAGTTGAACATTGTGA
ACCTGCAGATCACGGAAGACCTGGCGAGTATGAATGAATGCCACCAACGCCATTGGCTCCGCCTCTGT
TGTCAGTGTCTCAGGGTGGGAGCCACCTGGCCCACTCTGGCCTTTCTTGGGAATTCTGGCTGAAATT
ATCATCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGTTCTGACGCTGGAC
CAATGAAAACCACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAACACAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC228317 representing NM_001161363

Red=Cloning site Green=Tags(s)

MSGSSLPSALALSLLLVSGSLLPGPAAQNAGFVKSPMSETKLTGDAFELYCDVVGSPPTPEIQWYYAEVN
RAESFRQLWDGARKRRVTNTAYGNGVSVLRITRLTLEDSTGYECRASNDPKRNDLRQNPSITWIRAQA
TISVLQKPRIVTSEEVIIRDSPVLPVTLQCNLTSSHTLTYSYWTNGVELSATRKNASNMEYRINKPRA
EDSGEYHCYVHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDATMYCKSVGYPHPDWIWRKKENGMPM
DIVNTSGRFFIINKENYTELNIVNLQITEDPGEYECNATNAIGSASVVTVLRVRSHLAPLPFLGILAEI
IILVVIIVVEKRRKPDEVPDAGPMKTNSTNNHKDKNLRQRNTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

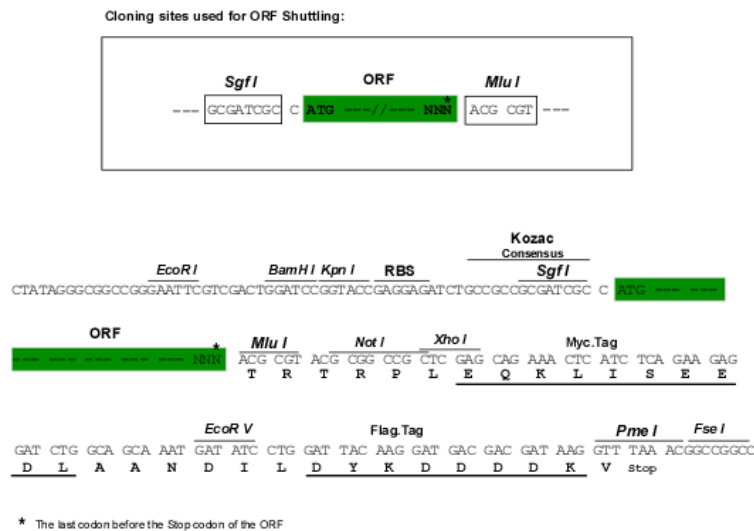
Chromatograms:

https://cdn.origene.com/chromatograms/mk8056_h10.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001161363

ORF Size:

1182 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001161363.2](#)

RefSeq ORF: 1185 bp

Locus ID: 27020

UniProt ID: [Q9Y639](#)

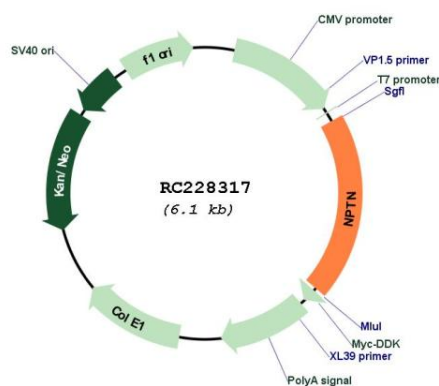
Cytogenetics: 15q24.1

Protein Families: Druggable Genome, Transmembrane

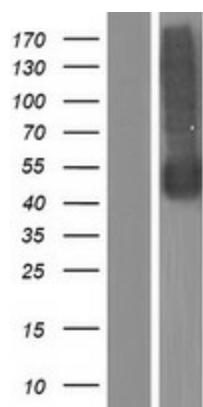
MW: 43.93 kDa

Gene Summary: This gene encodes a type I transmembrane protein belonging to the Ig superfamily. The protein is believed to be involved in cell-cell interactions or cell-substrate interactions. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2009]

Product images:



Circular map for RC228317



Western blot validation of overexpression lysate (Cat# [LY431345]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228317 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).