

Product datasheet for RC212441

NPTN (NM_012428) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NPTN (NM_012428) Human Tagged ORF Clone
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: >RC212441 representing NM_012428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGGTTTCGTCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCCTCCCAG
 GGCCAGGCGCGCTCAGAACGCTGGGTTTGTCAAGTCGCCATGTCAGAACTAAGCTCACGGGGGACGC
 CTTTGAGCTGTACTGTGACGTGGTGGGAGCCCCACGCCAGAGATCCAGTGGTGGTACGCAGAAGTCAAC
 CGGCAGAGTCTTTCAGACAGCTGTGGACGGTCTCGGAAGCGCGTGTACCGTAAACACCGCCTACG
 GGTCAAACGGCGTGAGTGTGCTGAGAATAACCCGGCTCACCTGGAGGACTCTGGGACTTACGAGTGCAG
 GGCCAGCAACGACCCCAAGAGGAATGACTTGAGGCAAAACCCCTCCATAACATGGATTTCGAGCCCAGGCC
 ACCATAAGCGTCTTTCAGAAGCCAAGGATTGTCACCAAGTGAAGAGGTCATTATTCGAGACAGCCCTGTTT
 TCCTGTCAACCTGCAGTGTAACTCACCTCCAGCTCTCACACCTTACATACAGCTACTGGACAAAGAA
 TGGGGTGGAACTGAGTGCCACTCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCGAGAGCT
 GAGGATTCAGGCGAATACCACTGCGTATATCACTTTGTCAGCGCTCCTAAAGCAAACGCCACCATTTGAAG
 TGAAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAACAAGAATGAAGGCGAGGATGCCACTAT
 GTATTGCAAGTCAGTTGGCTACCCCAACCCAGACTGGATATGGCGCAAGAAGGAGAACGGGATGCCCATG
 GACATTGTCAATACCTCTGGCCGCTTCTCATCATCAACAAGGAAAATTACTGAGTTGAACATTGTGA
 ACCTGCAGATCACGGAAGACCCCTGGCGAGTATGAATGTAATGCCACCAACGCCATTGGCTCCGCCTCTGT
 TGTCACTGTCTCAGGGTGGGAGCCACCTGGCCCACTCTGGCCTTTCTTGGGAATTCTGGCTGAATT
 ATCATCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGACGATGATG
 AACCGAGTGGACCAATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCAGGAGAAAACAC
 AAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC212441 representing NM_012428
Red=Cloning site Green=Tags(s)

MSGSSLPALALSLLLVSGSLLPGPGAAQNAFVKSPMSETKLTGDFAFELYCDVVGSPPTPEIQWYYAEVN
 RAESFRQLWDGARKRRVTVNTAYGSNGVSVLRITRLTLEDSTYECRASNDPKRNDLRQNPSTWIRAQA
 TISVLQKPRIVTSEEVIIRDSPVLPVTLQCNLTSSHTLTYSYWTKNGVELSATRKNASNMEYRINKPRA
 EDSGEYHCYYHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDATMYCKSVGYPHPDWIWRKENGMPM
 DIVNTSGRFFIINKENYTELNIVNLQITEDPGEYECNATNAIGSASVTVLRVRSHLAPLWPFLGILAEI
 IILVVIIVVYEKRRPDEVPDDDEPAGPMKTNSTNNHKDKNLRQRNTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2135_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012428

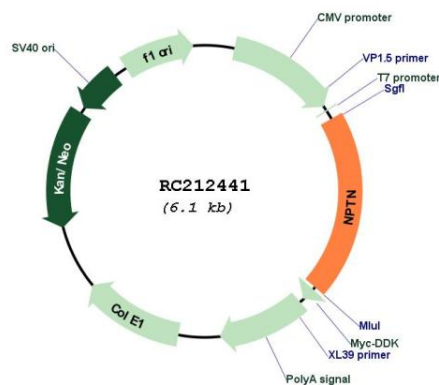
ORF Size: 1194 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_012428.4</u>
RefSeq Size:	2454 bp
RefSeq ORF:	1197 bp
Locus ID:	27020
UniProt ID:	<u>Q9Y639</u>
Cytogenetics:	15q24.1
Domains:	ig, IGc2, IG
Protein Families:	Druggable Genome, Transmembrane
MW:	44.8 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 RC212441