

Product datasheet for **SC127934**

NPTN (NM_012428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPTN (NM_012428) Human Untagged Clone
Tag:	Tag Free
Symbol:	NPTN
Synonyms:	GP55; GP65; np55; np65; SDFR1; SDR1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_012428, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGGTTTCGTCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCCTCCCAG
GGCCAGGCGCCGCTCAGAACGCTGGGTTTGTCAAGTCGCCATGTCAGAACTAAGCTCACGGGGGACGC
CTTTGAGCTGTACTGTGACGTGGTCGGGAGCCCCACGCCAGAGATCCAGTGGTGGTACGCAGAAGTCAAC
CGGGCAGAGTCTTTCAGACAGCTGTGGGACGGTCTCGGAAGCGCCGTGTACCGTAAACACCGCCTACG
GGTCAAACGGCGTGAGTGTGCTGAGAATAACCCGGCTCACCTGGAGGACTCTGGGACTTACGAGTGCAG
GGCCAGCAACGACCCCAAGAGGAATGACTTGAGGCAAAACCCCTCCATAACATGGATTCGAGCCCAGGCC
ACCATAAGCGTCCTTCAGAAGCCAAGGATTGTACCAGTGAAGAGGTCATTATTCGAGACAGCCCTGTTT
TCCTGTACCCTGCAGTGTAACTCACCTCCAGCTCTCACACCTTACATACAGCTACTGGACAAGAA
TGGGGTGGAACTGAGTGCCACTCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCGAGAGCT
GAGGATTCAGGCGAATACCCTGCGTATATCACTTTGTGACGCGCTCCTAAAGCAAACGCCACCATTTGAAG
TGAAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAGAACAAGAATGAAGGGCAGGATGCCACTAT
GTATTGCAAGTCAGTTGGCTACCCCAACCCAGACTGGATATGGCGCAAGAAGGAGAACGGGATGCCCATG
GACATTGTCAATACCTCTGGCCGCTTCTCATCATCAACAAGGAAAATTACACTGAGTTGAACATTGTGA
ACCTGCAGATCACGGAAGACCCCTGGCGAGTATGAATGTAATGCCACCAACGCCATTGGCTCCGCTCTGT
TGTCATGTCTCAGGGTGGGAGCCACCTGGCCCACTCTGGCCTTTCTGGGAATTCTGGCTGAAATT
ATCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGACGATGATG
AACCAGCTGGACCAATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAACAC
AAATTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012428 unedited
 ATTACCCCGCCCGTTGACGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
 CAGAGCTCATTTAGGTGACACTATAGAATAACAAGTACTTGTCTTTTTGCAGCGGCCGC
 GAATCGGCACGAGGGAAGGTCTCGCGAGGCCTGGGCGCTGCGGCGGCAGGAGGAGACGG
 GGAAGGACGGAGCCGAGCCGCGGCTGCCTCCCTCGTCACTCCCTCGGCACTCGCCCGC
 CCCCTCCCTCCCTCCCTCCCTCCCTCCCGGCCCGGCTCTGGCCCCGGCCATTGCTGTT
 GGGTCTTCTGCTAGGGAGGATGTCGGGTTGCTGCTGCCAGCGCCCTGGCCCTCTCGCT
 GTTGCTGGTCTCTGGCTCCCTCCTCCAGGGCCAGGCGCCGCTCAGAACGCTGGGTTGT
 CAAGTCGCCCATGTCAGAACTAAGCTCACGGGGACGCCTTTGAGCTGTAAGTGTGACGT
 GGTGCGGAGCCCCACGCCAGAGATCCAGTGGTGGTACGCAGACGTCAACCGGGCAGAGTC
 TTTGAGACAGCTGTGGGACGGTCTCGGAAGCGCCGTGTACCGTAAACACCGCCTACGG
 GTCAAACGGCGTGAGTGTGCTGAGAATAACCCGGCTCACCTTGGAGGACTCTGGGACTTA
 CGAGTGCAGGGCCAGCAACGACCCCAAGAGGAATGACTTGAGGCACAACCCCTCCATAAC
 ATGGATTCGAGCTCAGGCCACCATACGCGTCTTCAAAGCCAAGGATTGTACCAGTGCA
 AGAGGTCATTATTCGAGACAGCCCTGTTCTCCCTGCACCTGCAGTGAACCTCACCTTC
 AGTTCTCACACCTTACTACAGCTACTGAACAAACAAGGGTTGGAACATGATGCCCTCGT
 TAGATGCCCGCACCTGCAGTCCAGATCACCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012428 unedited
 NNNNGGGCCTTCTTTTGTACATGGTTTTTCATTTTTAAAAACAGTGAATCCACTTTTTTA
 TACATCATTGCACTTCAATAATTACACAAAACACACAAGTACATGCATCTACAATTACGC
 ACCGCATGAGAACCGTTAGGTTATAAAATCTATCATCAACCAGTAAATCAATGTGAAAAA
 ATACAGTGTCAAACCAAAAAGTATAACTATAGTTGCATAGAATATTACCATGCTATAACA
 TTTCAAGTTCATTGGAAACAAAAGAAAAATTATAAAAGTTTGCCTTGATTGAATGAATGT
 ACAAGAATAAGGTTCAACACATCAGTGCAAAAAGGATTTATGAATTTACATGACTTAACAG
 AAGAAAAGATAATCACTTAAAAAGCAATCATACGTATATACTGCAATTCATTATACCCAT
 TCAGTGGACTGTTCCAGCTTATTAAGTACAGGTTAAGCCCTTAAAAATTATAGATTTCA
 GTTTATATTACTCATCTTTATGTACCAGAACTGCACAATTTCTCATCTGACAACATACA
 ATAAGGAATGAATATCAGCAGCTTAAAAATGAAACAAGCATTACTTTATTTTGGATTTT
 TCCCACCCCAAAAATATAAATATATATATATATATATTTATATACTGTATATATCTGTA
 GGTTTTGCTGTACTTTACAAAAGTGTATCACTAGATGGCAGCAGTGCATTTTAGAGCTTT
 GCCAATTTAACAGCTGCATTAAGTAAAAAATGGCGCATGCATGATCTGATCCTCAGAGGA
 CCTTTTCACTTCTATTTAAATTTTTAACAAAAGGAAAAAAAAAAAAAACATTACACGCACA
 TCAAGCCCAAAATAGTTTACACCTTCTACTACTGAAGCATTGTTTAAAN

Restriction Sites:

NotI-NotI

ACCN:

NM_012428

Insert Size:

2550 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](#)

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_012428.1](#), [NP_036560.1](#)

RefSeq Size: 2454 bp

RefSeq ORF: 2454 bp

Locus ID: 27020

UniProt ID: [Q9Y639](#)

Cytogenetics: 15q24.1

Domains: ig, IGc2, IG

Protein Families: Druggable Genome, Transmembrane

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]
 Transcript Variant: This variant (b), alternatively known as beta, represents the longest transcript and encodes the longest isoform (b).