

Product datasheet for **RG210326**

NPTN (NM_017455) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPTN (NM_017455) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NPTN
Synonyms:	GP55; GP65; np55; np65; SDFR1; SDR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210326 representing NM_017455 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGTTTCGTCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCTCCCAG
GGCCAGGCGCCGCTCAGAACGAGCCAAGGATTGTCACCAGTGAAGAGGTCATTATTCGAGACAGCCCTGT
TCTCCCTGTCACCCTGCAGTGTAACCTCACCTCCAGCTCTCACACCCTTACATACAGCTACTGGACAAAG
AATGGGGTGAACTGAGTGCCACTCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCGAGAG
CTGAGGATTCAGGCGAATACCACTGCGTATATCACTTTGTCAGCGCTCCTAAAGCAAACGCCACCATTGA
AGTGAAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAGAAACAAGAATGAAGGGCAGGATGCCACT
ATGATTGCAAGTCAGTTGGCTACCCCCACCCAGACTGGATATGGCGCAAGAAGGAGAACGGGATGCCCA
TGGACATTGTCAATACCTCTGGCCGCTTCTTCATCATCAACAAGGAAAAATTACACTGAGTTGAACATTGT
GAACCTGCAGATCACGGAAGACCCTGGCGAGTATGAATGTAATGCCACCAACGCCATTGGCTCCGCTCT
GTTGCTACTGTCTCAGGGTGGCGAGCCACCTGGCCCCACTCTGGCCTTTCTTGGGAATTCTGGCTGAAA
TTATCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGACGATGA
TGAACCAGCTGGACCAATGAAAACCAACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAAC
ACAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210326 representing NM_017455
 Red=Cloning site Green=Tags(s)

MSGSSLPSALALSLLLVSGSLLPGPGAAQNEPRIVTSEEVIIRDSPVLPVTLQCNTLSSSHTLTYSYWTK
 NGVELSATRKNASNMEYRINKPRAEDSGEYHCYVYHFVSAPKANATIEVKAAPDITGHRSENKNEGQDAT
 MYCKSVGYPHPDWIWRKKENGMPMDIVNTSGRFFIINKENYTELNIVNLQITEDPGEYECNATNAIGSAS
 VVTVLRVRSHLAPLWPFLGILAEI I I I L V V I I V V Y E K R K R P D E V P D D E P A G P M K T N S T N N H K D K N L R Q R N
 T N

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017455

ORF Size: 846 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_017455.4](#)

RefSeq Size: 2109 bp

RefSeq ORF: 849 bp

Locus ID: 27020

UniProt ID: [Q9Y639](#)

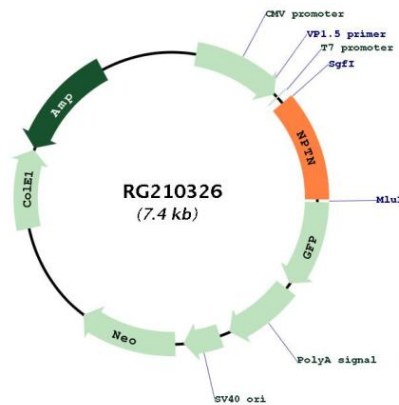
Cytogenetics: 15q24.1

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]

Product images:



Circular map for RG210326