

Product datasheet for **RG212441**

NPTN (NM_012428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NPTN (NM_012428) 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:	>RG212441 representing NM_012428 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGTTTCGTCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCCTCCCAG
GGCCAGGCGCCGCTCAGAACGCTGGGTTTGTCAAGTCGCCATGTCAGAACTAAGCTCACGGGGACGC
CTTTGAGCTGTACTGTGACGTGGTGGGAGCCCCACGCCAGAGATCCAGTGGTGGTACGCAGAAGTCAAC
CGGCAGAGTCTTTCAGACAGCTGTGGACGGTGTCTGGAAGCGCGTGTACCGTAAACACCGCCTACG
GGTCAAACGGCGTGAGTGTGCTGAGAATAACCCGGCTCACCTTGGAGACTCTGGGACTTACGAGTGCAG
GGCCAGCAACGACCCCAAGAGGAATGACTTGAGGCAAAACCCCTCCATAACATGGATTTCGAGCCCAGGCC
ACCATAAGCGTCTTTCAGAAGCCAAGGATTGTCACCAAGTGAAGAGGTCATTATTCGAGACAGCCCTGTTT
TCCCTGTCAACCCTGCAGTGTAACTCACCTCCAGCTCTCACACCCTTACATACAGCTACTGGACAAAGAA
TGGGGTGGAACTGAGTGCCTCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCGAGAGCT
GAGGATTCAGGCGAATACCACTGCGTATATCACTTTGTCAGCGCTCTAAAGCAAACGCCACCATTTGAAG
TGAAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAACAAGAATGAAGGCGAGGATGCCACTAT
GACATTGTCAATACCTCTGGCCGCTTCTCATCATCAACAAGGAAAATTACTGAGTTGAACATTTGTGA
ACCTGCAGATCACGGAAGACCCCTGGCGAGTATGAATGTAATGCCACCAACGCCATTGGCTCCGCCTCTGT
TGTCAGTGTCTCAGGGTGGGAGCCACCTGGCCCACTCTGGCCTTTCTTGGGAATTCTGGCTGAATT
ATCATCTTTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGACGATGATG
AACCAGCTGGACCAATGAAAACCACTCTACCAACAATCACAAAGATAAAAACTTGCGCCAGAGAAACAC
AAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212441 representing NM_012428
 Red=Cloning site Green=Tags(s)

MSGSSLPSALALSLLLVSGSLLPGPGAAQNAQNFVKSPMSETKLTGDAFELYCDVVGSPTEIQWYYAEVN
 RAESFRQLWDGARKRRVTVNTAYGSNGVSVLRITRLTEDSGTYECRASNDPKRNDLRQNPISITWIRAQA
 TISVLQKPRIVTSEEVIIRDSPVLPVTLQCNLTSSHTLTYSYWTKNGVELSATRKNASNMEYRINKPRA
 EDSGEYHCYYHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDATMYCKSVGYPHPDWIWRKKENGMPM
 DIVNTSGRFFIINKENYTELNIVNLQITEDPGEYECNATNAIGSASVTVLRVRSHLAPLWPFLGILAEI
 IILVVIIVVYEKRRKPDEVPDDDEPAGPMKTNSTNNHKDKNLRQRNTN

TRTRPLE - GFP Tag - V

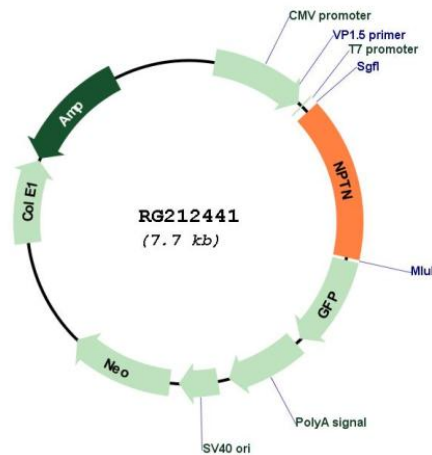
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_012428

ORF Size:	1194 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_012428.4
RefSeq Size:	2454 bp
RefSeq ORF:	1197 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]