

Product datasheet for **RG228209**

NPTN (NM_001161364) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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: >RG228209 representing NM_001161364
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCGGGTTCTGTCGCTGCCAGCGCCCTGGCCCTCTCGCTGTTGCTGGTCTCTGGCTCCCTCCTCCAG
GGCCAGGCGCCGCTCAGAACGAGCCAAGGATTGTACCAAGTGAAGAGGTCATTATTCGAGACAGCCCTGT
TCTCCCTGTCAACCTGCAGTGAACCTCACCTCCAGCTCTCACACCCTTACATACAGCTACTGGACAAAG
AATGGGGTGAAGTGAAGTGCCTCGTAAGAATGCCAGCAACATGGAGTACAGGATCAATAAGCCGAGAG
CTGAGGATTCAAGCGAATACCACTGCGTATATCACTTTGTCAGCGCTCCTAAAGCAAACGCCACCATTTGA
AGTGAAGCCGCTCCTGACATCACTGGCCATAAACGGAGTGAGAACAAAGATGAAGGGCAGGATGCCACT
ATGTATTGCAAGTCAGTTGGCTACCCCAACCCAGACTGGATATGGCGCAAGAAGGAGAACGGGATGCCCA
TGGACATTGTCAATACCTCTGGCCGCTTCTTCATCATCAACAAGGAAAAATTACACTGAGTTGAACATTGT
GAACCTGCAGATCACGGAAGACCCTGGCGAGTATGAATGTAATGCCACCAACGCCATTGGCTCCGCCTCT
GTTGTCACTGTCTCAGGGTGCAGGACCACTGGCCCCACTCTGGCCTTTCTTGGGAATTCTGGCTGAAA
TTATCATCCTTGTGGTGATCATTGTTGTGTATGAGAAGAGGAAGAGGCCAGATGAGGTTCTGACGCTGG
ACCAATGAAAACCAACTCTACCAACAATCACAAGATAAAAACTTGCGCCAGAGAAACACAAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



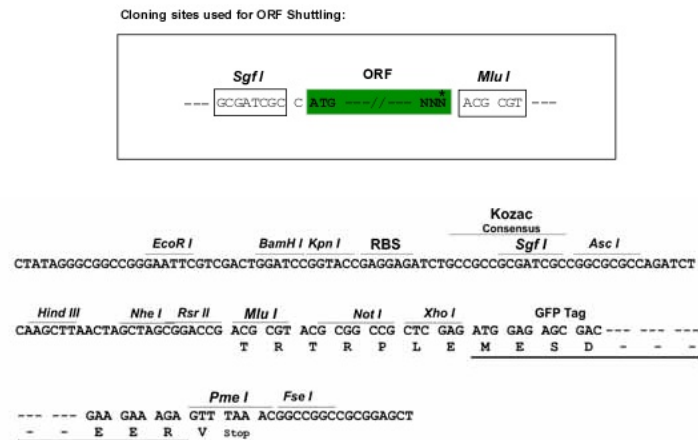
Protein Sequence: >RG228209 representing NM_001161364
Red=Cloning site Green=Tags(s)

MSGSSLPSALALSLLLVSGLLPGPAAQNEPRIVTSEEVIIRDSPVLPVTLQCNTSSSHTLTYSYWTK
NGVELSATRKNASNMEYRINKPRAEDSGEYHCYHFVSAPKANATIEVKAAPDITGHKRSENKNEGQDAT
MYCKSVGYPHPDWIWRKKENGMPMDIVNTSGRFFIINKENYTELNIVNLQITEDPGEYECNATNAIGSAS
VVTVLRVRSRLAPLWFLGILAEIILVVIIVVYEKRKRDPDEVPDAGPMKTNSTNNHKDKNLRQRNTN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161364

ORF Size: 834 bp

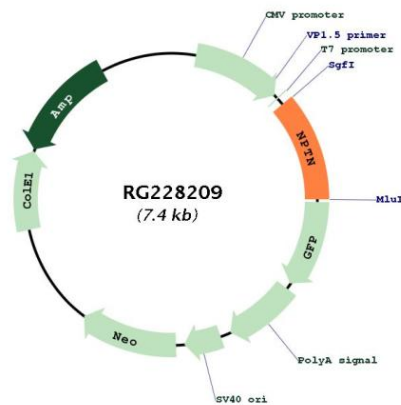
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_001161364.2</u>
RefSeq Size:	2094 bp
RefSeq ORF:	837 bp
Locus ID:	27020
UniProt ID:	<u>Q9Y639</u>
Cytogenetics:	15q24.1
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 RG228209