

Product datasheet for **MG209100**

Ntn3 (NM_010947) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntn3 (NM_010947) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ntn3
Synonyms:	Ntn2l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209100 representing NM_010947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCACCTGGCTCTGGGGCTGCTGCTGACCGCGGCACGCTCTCCGTCGACTGAGCCAGGGCTGC
 CGGCTCTGCCGACCCCTGCTATGATGAGGCGAGGGAGCCTCGCTCTTGATTCCCTGGCCTTGTAACGC
 TGCTCTGGGCCGAGAGGTGCTGGCGTCCAGCACGTGCGGGAGGTGCGCCAATCGCGTCTGCGATTCTCG
 GACCCGACGCGGGCACACTCTGCAGACCTCTGACCTCTGCTCCGGGCACTGCAAGTCTCTCTGTTGGC
 GCTCCGATTTGCTGCAACAGGCACCTTTCAACGTAACCCCTCACAGTGCCCTGGGGAAGGCTTTGAGCT
 GGTCTTCGTGAGCCTGCGCTTCTGCTCAGCTCCTCAACCTCCGTGGCCCTGCTTAAGTCGCAGGACCAT
 GGCCGACGCTGGTCCCCTTGGGCTTCTTCTTCCAGCTGTACCCTGGACTATGGCCGCTGCCTGCTC
 CTGCTGATGGCCCTTCTGGTCCAGGGCCAGAAGCCCTCTGCTTCCAGCCCCCAGGCTCAGCCTGATGG
 TGGAGGCTTCTGGCCTCAGTGTGAGGATGGCAGCCACAGGGCCTGGATCTGGACAACAGCCCGTG
 CTTCAAGACTGGGTGACTGCCACAGATATTCGCATAGTACTCACAAAGCCCTGCCATTGAGGGAGACACCA
 GGGACGGTGGGGTGACAGTCCCCTACTCTACTCAGCCACTGAGCTTCAGGTGGGAGGTCGATGCAAGTG
 CAATGGGCATGCCTCACGGTGTCTGTTGGACACCCATGGCCACCTGGTCTGCGACTGCCAGCATGGTACA
 GAGGGCCCTGATTGCAGCCGCTGCAAGCCCTTCTACTGCGACAGGCCATGGCAGCGGGCTACAGGGCAGG
 AAGCCACGCTTGCTTGGCTTCTGCTCCTGCAACGGCCATGCGCGAAGATGCCGCTTCAACATGGAGCTTA
 CCGACTGTCCGGCCGCCAGTGGGGCGTGTGCCTCACTGCCGCGACAATACAGCTGGTGCCTACTGC
 CACTACTGCCGGGAGGGCTTCTATCGTGATCCAGGCCGTCTCTGAGTGACCGTCTGCTGCAGAGCTT
 GTGATGCCACCCAGTTGGTGTCTGTGCAAAACCTGTAACCAGACCACAGGCCAGTGCCTGTAAAGGA
 TGGTGTACTGGCCTCACCTGTAACCGCTGTGCCCCAGGTTTCCAGCAGAGCCGTTCTCCTGTGGCACCT
 TGCCTTAAGACTCCTGTCCCTGGACCCACCGAAGAAAGCAGTCCCTGTGGAGCCACAGGACTGTGAGTCAC
 ATTGCAGACTGCGCGTGGCAGTTACCGAATCAGCCTGAAGAAGTTCTGCCGGAAGGACTATGCGGTGCA
 GGTGGCAGTGGGTGCACGCGGTGAGGCCCGCGCTCGTGGACACGCTTCCGGTAGCGGTGCTTGTGTG
 TTCCGACGCGGAGGAACGCGCTCGACGCGGGAGCAGCGCGCTGTGGTACCAACTCTAGACGCGGCT
 GCGGTTGCCCGCCTCTGCCCGCCGCGTTACTTGTGCTGGGAGGTGGCCGGGGCTGCAGCTGG
 GAGCACAGCGGGCCGGGACAGGGGCTCAGTGTGCCCGTGAAGCCTCGTGTGCTTGGAGAGACGCC
 TGGACCCGCGCCTGCGGAGGCTGCAGAGGAGAGCGGGCGGGGCGCTGCGGGACCGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209100 representing NM_010947
 Red=Cloning site Green=Tags(s)

MPTWLWLLLLTAGTLSAALSPGLPASADPCYDEAREPRSCIPGLVNAALGREVLASSTCGRSANRVCDS
 DPQRAHSADLLTSAPGTASPLCWRSDDLQAPFNVTLVPLGKAFELVFVSLRFCAPPTSVALLKSQDH
 GRSWVPLGFFSSSCTLDYGRLPAPADGPGSGPPEALCFPAPQAQPDGGLLAFSVQDGPQGLDLNRPV
 LQDWVATDIRIVLTRPAIQGDTRDGGVTVPYSYSATELVQVGRCKCNGHASRCLLDTHGHLVDCQHGT
 EGPDCSRCKPFYCDRPWQRATGQEAHAACLACSCNGHARRCRFMELYRLSGRRSGVCLNCRHNTAGRHC
 HYCREGFYRDPGRVLSDRRACRACDCHPVGAAGKTCNQTTGQCPCDKGVTGLTCNRCAPGFQSRSPVAP
 CVKTPVPGPTEESSPVEPQDCESHCRPARGSYRISLKKFCRKDYAVQVAVGARGEARGSWTRFPVAVLAV
 FRSGEERARRGSSALWVPTLDAACGCPRLLPGRRYLLLGGPGAAGSTAGRGQGLSAARGSLVLPWRDA
 WTRRLRRLQRRERRRRCGTA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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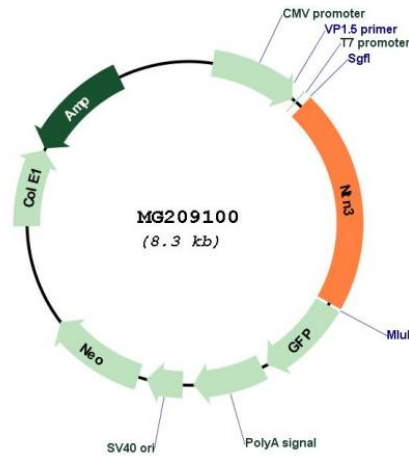
                                 Kozac
                                 Consensus
EcoRI   BamHI KpnI   RBS       SgfI   AscI
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII  NheI  RsrII  MluI      NotI   XhoI      GFP Tag
CAAGCTTAACTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC ---
                                     T  R  T  R  P  L  E      M  E  S  D  -  -  -

                               PmeI   FseI
--- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
-  -  E  E  R  V  Stop

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Plasmid Map:



ACCN: NM_010947
ORF Size: 1740 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:	<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_010947.3 , NP_035077.1
RefSeq Size:	4912 bp
RefSeq ORF:	1743 bp
Locus ID:	18209
UniProt ID:	Q9R1A3
Cytogenetics:	17 A3.3
Gene Summary:	Netrins control guidance of CNS commissural axons and peripheral motor axons. [UniProtKB/Swiss-Prot Function]