

Product datasheet for **MG202434**

Nxn1 (NM_145598) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nxn1 (NM_145598) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nxn1
Synonyms:	A930031O08Rik; RdCVF; Txnl6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202434 representing NM_145598 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCATCTCTTCTCTGGACGCATCTTGATCAGGAACAACAGCGACCAGGATGAAGTGGAGACAGAGG
 CAGAGCTGAGCCGTAGGTTAGAGAATCGTCTGGTGTGCTGTTCTTCGGCGCCGGCGCCTGTCCCCAGTG
 CCAGGCCCTTGCCCCAGTCCTCAAAGACTTCTTCGTGCGGCTCACTGACGAGTTCTACGTGCTGCGGGCA
 GCACAGCTGGCCCTGGTCTATGTGTCCCAGGACCCTACAGAGGAGCAACAGGACCTTCTCCTCAGGGACA
 TGCCTGAAAAATGGCTCTTCTGCGTTCATGATGAAGTGAAGGAGGACCTCGGGCGCCAGTTCTCTGT
 CCGTCAACTGCCAGCGGTTGTGGTACTTAAGCCTGGTGGGACGTGCTGACAAGCGACGCCACGGAGGAG
 ATCCAGCGTCTGGGACCCGCCTGCTTTGCCAAGTGGCAGGAGGCCGAGAGCTCCTGGACCCGAGTTCC
 TGCAACCGGAGGATTTGGATGAGCCTGCGCGGCGCAGCATCACCAGCCTCTGCGCCGTCGCAAGTACCG
 AGTAGACCGGGATGTGCGCCGGGAGCGGGGCCGAAACGGCCGCGACTCTGGTGACCCCCAGGGGACGCG
 GGTACAAGGGCGGAGCTCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG202434 representing NM_145598
Red=Cloning site Green=Tags(s)

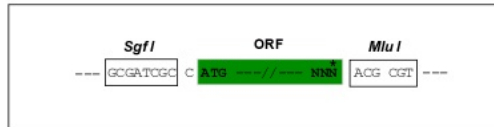
MASLFSGRILIRNNSDQDEVETEAEISRRLLENRLVLLFFGAGACPQCQAFAPVLKDFVRLTDEFYVLR
AQLALVYVSQDPTEEQDLFLRDMPEKWLFLPFHDELRRDLGRQFSVRQLPAVVVLKPGGDVLTSDATEE
IQRLGPACFANWQEAELLDRSFLQPEDLDEPARRSITEPLRRRKYRVRDVGRRERGRNGRDSGDPQGD
GTRAEW

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCCGAGCT

- - E E R V Stop

ACCN: NM_145598

ORF Size: 651 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: [NM_145598.2](#), [NP_663573.1](#)

RefSeq Size: 2300 bp

RefSeq ORF: 654 bp

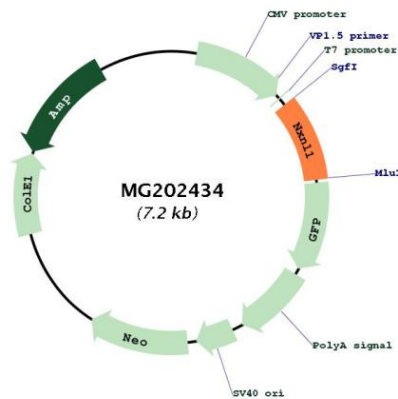
Locus ID: 234404

UniProt ID: [Q8VC33](#)

Cytogenetics: 8 B3.3

Gene Summary: May play a role in cone cell viability, slowing down cone degeneration, does not seem to play a role in degenerating rods.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202434