

Product datasheet for **MG223958**

Ntng2 (NM_133500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntng2 (NM_133500) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ntng2
Synonyms:	2610016D08Rik; Lmn; Lmnt2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223958 representing NM_133500
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCGCTGTGGCTCTCTTCTGCACTGCCTCCCGTGGTCTCTGTTGGGACTATGACATCTGCAAA
 CCTGGGTGACCACAGATGAGGGCCACCTGGGAATCTATGCCTGCCAGCCCAAGGTGATGCGCCTGAA
 GGATTATGTCAAGGTCAAAGTGGAGCCCTCAGGCATCACGTGCGGAGACCCCTGAAAGTTCTGTTCC
 CATGAGAACCCCTACCTGTGAGTAATGAGTGTGATGCCTCCAATCCCGACTGGCCACCCGCCCGGC
 TTATGTTTGACAGGAAGATGAGGGACTGGCTACCTACTGGCAAAGCGTCACGTGGAGTGCCTACCCAG
 TCCACTAGAGGCCAACATCACCTCTCATGGAACAAGAGCGTGGAGTTGACAGACGACGTGGTGGTACT
 TTTGAGTATGGCCGGCCACGGTCATGGTCTCGAGAAGTCCCTGGACAATGGCCGCACCTGGCAGCCCT
 ACCAGTTCATGCAGAGGACTGCATGGAGCCTTCGGCATGTCTGCCGACGTGCCGAGACATGTCACC
 CTCACGCGCCACCGGTGCTCTGCACCGAGGAGTACTCAGCTGGCAGGGTCCAAGAAAGAGAAGCAT
 GTGCGCTTTGAGGTAAGGACCGCTTTGCCATCTTTGCCGGCCCTGACCTGCGTAACATGGACAACCTGT
 ACACGAGGATGGAGAGCGCCAAGGGCTCAAGGAGTCTTACCTTCACTGACCTGCGCATGCGCCTGCT
 GCGTCTGCGCTGGTGGCACCTACGTGCAGCGAGAGAACCTCTACAAGTACTTCTATGCCATCTCCAAT
 ATCGAAGTCATTGGCAGGTGTAAGTGAACCTGCATGCCAACCTGTGCACAGTGCAGAGGGCAGCCTGC
 AGTGTGAGTGTGAACACAACACCACGGGCCCGACTGTGGCAGGTGAAGAAGAACTTCCGCACACGCGC
 CTGGCGAGCTGGTCTACCTGCCGTGCCACGGCTCTCCAATGCCTGTGCGGCCGCGGGCTCCGCC
 TTTGGCAACTGCGAGTGTACGGCCACTCAACCGTTGCAGCTACATTGACTTCTGAACGTGGTACT
 GCGTCAGCTGTAACACAACACTCGAGGCCAAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT
 CTCCGCAGAGCTGGATGATGAGAAGCTGTGATTGAATGTAAGTGTAACTGTAACAGATCGGCTCTGTGCAGAT
 CGATGCAATGAGACAGGCTTCTGCGAGTGCAGGGAGGGCGCAGTGGGCCCCAAGTGCAGCAGTGCCTTC
 CTACACTACTGGCGCCAAGGATGCTATCCAATGTGTGCGACGATGACCAGTGTCTGCCAGAAATGG
 CGGCACCTGCCAGCAGAACCAACGCTGCGCTGCCGCGCCGGCTACACCGCATTGCTGTGAGCAGCCC
 CGCTGTGACCTGCGCGACGAGCTGGCCCGACTGTGACCGCGCCAGGCATCGTCCGCGCCCCGACA
 CCCTGCTCGGATGCTGCTGCTGCTCGGCTGGCCGCCCTGCGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG223958 representing NM_133500
 Red=Cloning site Green=Tags(s)
 MLRLLALFLHCLPLVSGDYDICKSWVTTDEGPTWEFYACQPKVMRLKDYVKVKVEPSGITCGDPPERFCS
 HENPYLCSNECDASNPDLAHPRLMFDREDEGLATYQSVTWSRYPSPLEANITLSWNKSVELTDDVVVT
 FEYGRPTVMLEKSLDNGRTWQPYQFYAEDCMEAFGMSARRARDMSPSSAHRVLTCEEYSRWAGSKKEKH
 VRFEVDRFAIFAGPDLRNMDNLYTRMESAKGLKEFFTFDLRMRLLRPALGGTYVQRENLYKYFYAISN
 IEVIGRCKCNLHANLCTVREGSLQCEEHNTTGPDCGRCKNFRTRAWRAGSYLPLPHGSPNACAAAGSA
 FGNCECYGHSNRCSYIDFLNVVTCVSKHNTRGQHCQHCRLGYRNGSAELDDENVCIECNQIGSVHD
 RCNETGFCECREGAVGPKCDDCLPTHYWRQGCYPNVDDDDQLLQNGGTCQQNQRCACPPGYTGIRCEQP
 RCDLADDAGPDCDRAPGIVPRPDTLLGCLLLLGLAARLAC

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_133500

ORF Size: 1590 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_133500.2](#), [NP_598007.1](#)

RefSeq Size: 1593 bp

RefSeq ORF: 1593 bp

Locus ID: 171171

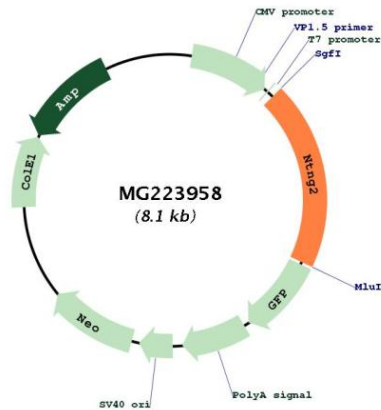
UniProt ID: [Q8R4F1](#)

Cytogenetics: 2 19.57 cM

Gene Summary:

The protein encoded by this gene belongs to a subclass of the netrin family called netrin-G proteins. Unlike classic netrins, which act as diffusible chemoattractants, netrin-Gs are glycosylphosphatidylinositol-anchored membrane proteins that interact with specific transmembrane proteins. In mouse, this gene is preferentially expressed in the cerebral cortex, habenular nucleus and superior colliculus. Knockout mutant mice display a lack of behavioral startle in response to acoustic stimuli. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MG223958