

## Product datasheet for **MC217634**

### **Ntng2 (NM\_133500) Mouse Untagged Clone**

#### **Product data:**

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Ntng2 (NM_133500) Mouse Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | Ntng2                                  |
| Synonyms:                 | 2610016D08Rik; Lmn; Lmnt2              |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-Entry (PS100001)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |



[View online »](#)

**Fully Sequenced ORF:** >MC217634 representing NM\_133500  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGC**

ATGCTGCGCCTGCTGGCTCTCTTCTGCACTGCCTCCCGTGGTCTCTGGGGACTATGACATCTGCAAAT  
 CCTGGGTGACCACAGATGAGGGCCCCACCTGGGAATTCTATGCCTGCCAGCCCAAGGTGATGCGCCTGAA  
 GGATTATGTCAAGGTCAAAGTGGAGCCCTCAGGCATCACGTGCGGAGACCCCTGAAAGTTCTGTTCC  
 CATGAGAACCCCTACCTGTGCAGTAATGAGTGTGATGCCTCCAATCCCGACCTGGCCACCCGCCCGGC  
 TTATGTTTGACAGGGAAGATGAGGGACTGGCTACCTACTGGCAAAGCGTCACGTGGAGTCGTACCCAG  
 TCCACTAGAGGCCAACATCACCTCTCATGGAACAAGAGCGTGGAGTTGACAGACGACGTGGTGGTACT  
 TTTGAGTATGGCCGGCCACGGTCATGGTCTCGAGAAGTCCCTGGACAATGGCCGCACCTGGCAGCCCT  
 ACCAGTTCTATGACAGGACTGCATGGAGGCTTCGGCATGTCTGCCGACGTGCCGAGACATGTCACC  
 CTCCAGCGCCACCGGGTCTCTGCACCGAGGAGTACTCACGCTGGCAGGGTCCAAGAAAGAGAAGCAT  
 GTGCGCTTTGAGGTAAGGACCGCTTTGCCATCTTTGCCGGCCCTGACCTGCGTAACATGGACAACCTGT  
 ACACGAGGATGGAGAGCGCAAGGGCCTCAAGGAGTTCTTACCTTCACTGACCTGCGCATGCGCCTGCT  
 GCGTCTGCGCTGGGTGGCACCTACGTGCAGCGAGAGAACCTCTACAAGTACTTCTATGCCATCTCCAAT  
 ATCGAAGTCATTGGCAGGTGTAAGTGCAACCTGCATGCCAACCTGTGCACAGTGCAGAGGGCAGCCTGC  
 AGTGTGAGTGTGAACACAACACCACGGGCCCGACTGTGGCAGGTGCAAGAAGAACTCCGCACACGCGC  
 CTGGCGAGCTGGCTCTACCTGCCGTGCCACGGCTCTCCAATGCCTGTGCGGCCGCGGGCTCCGCC  
 TTTGGCAACTGCGAGTGCTACGGCCACTCCAACGTTGCAGCTACATTGACTTCTGAACGTGGTGACCT  
 GCGTCAGCTGTAACACAACACTCGAGGCCAACACTGTCAGCACTGCCGCTGGGCTACTATCGCAATGG  
 CTCCGCAGAGCTGGATGATGAGAAGCTCTGCATTGAATGTAACGATGACGCTCTGTGACGAT  
 CGATGCAATGAGACAGGCTTCTGCGAGTGCAGGGAGGGCGCAGTGGGGCCCAAGTGCAGCACTGCCTTC  
 CTACACACTACTGGCGCCAAGGATGCTATCCAATGTGTGCGACGATGACCAGTCTCTGCCAGAATGG  
 CGGCACCTGCCAGCAGAACCAACGCTGCGCTGCCCGCCGGCTACACCGGCATTGCTGTGAGCAGCCC  
 CGCTGTGACCTCGCCGACGACGCTGGCCCGACTGTGACCGCGCGCCAGGCATCGTCCCGCGCCCGACA  
 CCCTGCTCGGATGCTGCTGCTGCTCGGGCTGGCCGCCGTCTGGCCTGCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_133500

**Insert Size:** 1593 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                        |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq:</b>                | <u>NM_133500.2, NP_598007.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq Size:</b>           | 1747 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>RefSeq ORF:</b>            | 1593 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Locus ID:</b>              | 171171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID:</b>            | <u>Q8R4F1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 2 19.57 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (a) lacks two in-frame exons in the 3' coding region compared to variant b. It encodes isoform a, which is shorter than isoform b.</p> |