

## Product datasheet for **MG217916**

### **Ntng1 (NM\_133488) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ntng1 (NM_133488) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ntng1
Synonyms:	A930010C08Rik; AI853992; Lmnt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG217916 representing NM\_133488  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTTTGTCAAGATTCCTGTGTCGATCCATGCCCTGTGGGTGACAGTGTCTCTGTGATGCAGCCCTACC  
 TTTTCGTGTGGGACATTATGATGTATGTAAGAGCCTGATTTACACAGAAGAAGGCAAAGTTGGGATTA  
 CACAGCCTGCCAGCCGGAATCCACGGACATGACCAAGTATCTGAAAGTAAAAGTGGACCCCGGATATT  
 ACCTGTGGAGACCCTCCAGAGTCTTCTGTGCAATGGGCAACCCTTACATGTGCAATAATGAGTGTGATG  
 CGAGTACCCTGAACTGGCACACCCTCCTGAGCTGATGTTTGTATTTGAAGGAAGACATCCCTCCACATT  
 TTGGCAGTCTGCTACTTGAAGGAGTACCCAAACCTCTCCAGTTAACATCACTCTGTCTTGGAGCAA  
 ACCATTGAACTCACAGACAACATAGTTATTACCTTTGAATCGGGCGTCCAGACCAAATGATCCTAGAGA  
 AATCTCTCGACTACGGACGAACATGGCAGCCCTATCAGTATTATGCCACAGACTGCCTCCATGCATTCCA  
 CATGGACCCGAAATCCGTGAAGGATTTATCTCAGCACACGGTCTTGGAAATCATTTCGACGGAAGAGTAC  
 TCCACTGGGTACTCCACGAATAGCAAAATAATCCACTTCGAGATCAAAGACAGGTTTGCCTTTTCGCTG  
 GACCTCGGCTACGAAATATGGCTTCCCTCTATGGACAGCTGGATACAACCAAGAAACTCAGAGATTTCTT  
 CACTGTACAGACCTGAGGATCAGGCTGTTGAGACCCGCCGTTGGGAAATATTTGTAGATGAACTACAT  
 TTGGCAGGTTACTTTTATGCGATCTCAGACATAAAGGTGCGAGGAAGGTGCAAGTGAACCTGCATGCCA  
 CTTTCGTGTTTGTATGACAACAGCAAACCTGACATGTGAATGTGAGCACAACACTACAGGTCCCAGCTGTGG  
 GAAATGCAAGAAGAACTACCAGGGCCGACCTTGGAGCCCCGGCTCATACCTCCCCATCCCCAAAGGCACC  
 GCAAACACCTGTATCCCCAGCATTTCAGTATCGGTACTCCTCCAAGTTAATAGGATATGGCCGAAATA  
 TTTCTTCCCTTGAGGTTTCTAACCCAAAACAAGCTAATGTCTGCGACAATGAGCTCCTGCAGTCCAGAA  
 TGGAGGGACCTGCCAGAACAATGTGCGCTGCGCGTGCCACAGCGCTACACCGGCATCCTCTGTGAGAAG  
 CTACGGTGCGAAGAGGGCGGCGAGCTGTGCTCCGAATCCGGCCAGGGAGCACCCCGCGGGGCTCCCCAG  
 CACTGCTGCTGCTGACCATGCTGCTGGGGACTGCCGGTCCCCTGGTGTTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

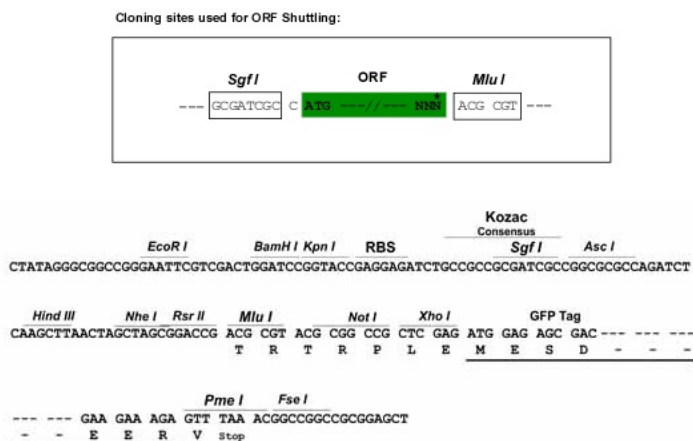
>MG217916 representing NM\_133488  
 Red=Cloning site Green=Tags(s)

MYLSRFLSIHALWVTVSSVMQPYLFVWGHYDVCKSLIYTEEGKVWDYTACQPESTDMTKYLKVKLDPPDI  
 TCGDPPESFCAMGNPYMCNNECDASTPELAHPPELMDFEGRHPSTFWQSATWKEYPKPLQVNITLSWSK  
 TIELTDNIVITFESGRPDQMILEKSLDYGRWQPYQYYATDCLHAFHMDPKSVKDL SQHTVLEIICTEY  
 STGYSTNSKIIHFEIKDRFAFFAGPRLRNMASLYGQLDTTKKLRDFFTVDLRIRLLRPVGEIFVDELH  
 LARYFYAISDIKVRGRCKNLHATSCLYDNSKLTCEEHNTTGPDCGKCKKNYQGRPWSPGSYLP  
 ANTCIPSISSIGTPPKFNRIWPNISSLEVSNPKQANVCDNELLHCQNGGTQNNVRCACPDAYTGILCEK  
 LRCEEAGSCGSESGQGAPPRGSPALLLLTMLLGTAGPLVF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_133488

**ORF Size:** 1380 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\\_133488.1](#), [NP\\_597995.1](#)

**RefSeq Size:** 5110 bp

**RefSeq ORF:** 1383 bp

**Locus ID:** 80883

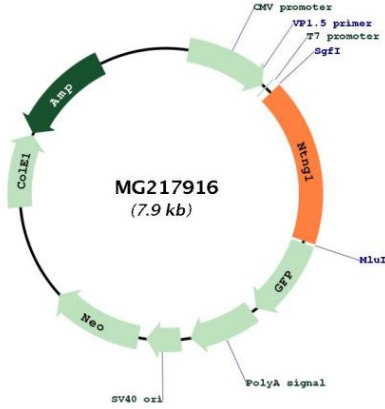
**UniProt ID:** [Q8R4G0](#)

**Cytogenetics:** 3 F3

**Gene Summary:**

Involved in controlling patterning and neuronal circuit formation at the laminar, cellular, subcellular and synaptic levels. Promotes neurite outgrowth of both axons and dendrites. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG217916