

## Product datasheet for **MR223704**

### **Ntn1 (NM\_008744) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ntn1 (NM_008744) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ntn1
Synonyms:	A1561871; BC019633; Netrin-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR223704 representing NM\_008744  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGCGCGCTGTGTGGGAGGCGCTGGCGGCGCTGGCGGCGGTGGCGTGCCTGGTGGGCGCGGTGCGCG  
 GCGGGCCCGGGCTTAGCATGTTCCGCCGGCCAGGCGGCGCAGCCTGATCCTTGCTCGGATGAGAATGGACA  
 CCCGCGCCGCTGCATCCCGGACTTTGTCAACGCGGCCCTTCGCAAGGACGTGCGCGTGTCCAGCACCTGC  
 GGCCGGCCCCCGGCGCGCTACTGCGTGGTGAAGAGCGGCTGCGCTCCTGTCACTCT  
 GCAACTCTTCGGATCCCAAGAAAGCGCACCCGCCGCCTTCTCACCGACCTCAATAACCCGCACAACCT  
 GACGTGCTGGCAGTCCGAGAACTACCTGCAGTTCGCCGACAACGTGACGCTCACTCTGTCGCTCGGCAAG  
 AAGTTTGAGGTGACCTATGTGAGCTGCAATTCTGCTCGCGCGGCCAGAGTCCATGGCCATCTACAAGT  
 CCATGGACTACGGGCGCAGTGGGTGCCCTTCCAGTTCATTCCACGAGTGGCGAAAAATGTACAACCG  
 GCCGCACCGCGCCTATCACCAACAGAACGAGCAGGAGGCCGTGTGCACCGACTCGCACACCGACATG  
 CGCCCGCTCTCTGGCGGGCTGATCGCTTTCAGCACGCTGGACGGGCGGCCCTCGGCGCACGACTTCGACA  
 ACTCGCCGGTGTGCAGGACTGGGTACGGCCACCGACATCCGCGTGGCTTTCAGCCGCCTGCACACGTT  
 CGGCGACGAGAACGAAGACGACTCGGAGCTGGCGCGGACTCCTATTACTATGCAGTGTCTGACCTGCAG  
 GTTGGCGCCGCTGCAAGTGCAACGGCCACGCGCGCGTTCGCTGCGCGACCGAGACGACAGTCTGGTGT  
 GTGACTGTAGGCACAACACGGCCGGCCCTGAATGCGACCGTTGCAAGCCCTTCCACTACGACCGGCCCTG  
 GCAGCGGCCACGGCCCGGAGGCCAACGAGTGCCTGGCTGCAACTGCAACCTCCATGCTCGGCGCTGC  
 AGATTCACATGGAGCTCTATAAGCTATCAGGGCGCAAGAGCGGGGAGTCTGTCTCAACTGCCGCCACA  
 ACCTGCGGGCCGCACTGCCACTACTGCAAGGAGGGCTTCTACCGAGACATGGGCAAGCCTATCACCCA  
 CCGGAAGGCTTGCAAGCCTGTGATTGCCACCCAGTGGGTGCTGCTGGCAAGACCTGCAATCAAACCACT  
 GGCAATGTCCTGCAAGGACGCGTGCAGGCGATCACCTGCAACCGATGTGCCAAGGCTACCAGCAGA  
 GCCGCTCCCCATCGCCCTTGCATCAAGATTCCTGTGGCGCCACCCACCACTGCAGCCAGCAGCGTGG  
 GAAACCGAAGACTGTGACTCCTATTGCAAGGCCCTCAAAGGCAAGCTGAAGATGAACATGAAGAAATAC  
 TGCAGGAAGGACTATGCTGTCCAGATCCACATCCTGAAGGCCGACAAAGCAGGGGACTGGTGAAGTTCA  
 CCGTGAACATCATCTCCGTGTACAAGCAGGCGACAAGTCGATTCGCGGTGGTACCAGAGTTTGTGGAT  
 CCGCTCACGAGACATCGCTGCAAGTGTCCAAAATCAAGCCCTCAAGAAGTACTTGTGTTGGGTAAT  
 GCCGAGGACTCACCTGACCAGAGTGGCATCGTGGCAGACAAGAGCAGCCTGGTATCCAGTGGCGGGACA  
 CATGGGCACGGCGCTGCACAAGTTCAGCAACGGGAGAAGAAGGGCAAGTGAAGAAGGCC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223704 representing NM\_008744  
 Red=Cloning site Green=Tags(s)

MMRAVWEALAALAAVAACLVGAVRGGPGLSMFAGQAAQPDPCSDENGHPRRCIPDFVNAAFGKDVRVSSTC  
 GRPPARYCVVSEERGEERLRSCHL CNSSDPKKAHPAFL TDLNPNHNL TCWQSENYL QFPHNVTL TLSL GK  
 KFEVTVVSLQFCSRPESMAIYKSM DYGR TWVPFQFYSTQCRKMYNRP HRAPITKQNEQEAVCTDSHTDM  
 RPLSGGLIAFSTLDGRPSAHD FDN SPVLQDWV TATDIRVAFSRLHTFGDENEDDSELARDSYYYAVSDLQ  
 VGGRCKCNGHAARCVRDRD DSL VDCRHNTAGPECDRCKPFHYDRPWQRATAREANECVACNCNLHARRC  
 RFNME L YKLSGRKSGGVCLNCRHNTAGRHCHYCKEGFYRDMGKPI THRKACKACDCHPVGAAGKTCNQTT  
 GQCPCKDGVGTICNRC AKGYQQSRSP IAPCIKIPVAPPTTAASSVEEPEDCDSYCKASKGLKMNMKKY  
 CRKDYAVQIHI LKADKAGDWWKFVNII SVYKQGT SRIRRGDQSLWIRSRDIACKCPKIKPLK KYLL LGN  
 AEDSPDQSGIVADKSSLVIQWRDTWARRLRKFQQREKKGKCKKA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

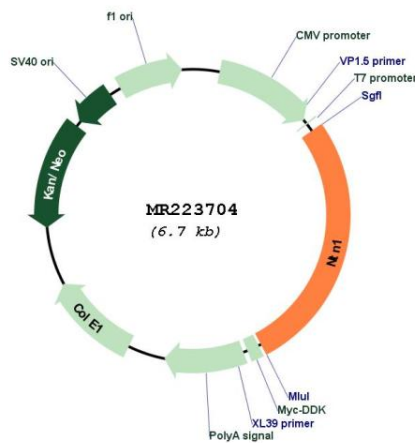
Sgfl-MluI



RefSeq Size: 5757 bp  
 RefSeq ORF: 1815 bp  
 Locus ID: 18208  
 UniProt ID: [O09118](#)  
 Cytogenetics: 11 B3  
 MW: 68.3 kDa

**Gene Summary:** Netrins control guidance of CNS commissural axons and peripheral motor axons. Its association with either DCC or some UNC5 receptors will lead to axon attraction or repulsion, respectively. Binding to UNC5C might cause dissociation of UNC5C from polymerized TUBB3 in microtubules and thereby lead to increased microtubule dynamics and axon repulsion (PubMed:28483977). Involved in dorsal root ganglion axon projection towards the spinal cord (PubMed:28483977). It also serves as a survival factor via its association with its receptors which prevent the initiation of apoptosis. Involved in colorectal tumorigenesis by regulating apoptosis (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223704