

Product datasheet for **RG206485**

Netrin G1 (NTNG1) (NM_014917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Netrin G1 (NTNG1) (NM_014917) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Netrin G1
Synonyms:	Lmnt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206485 representing NM_014917 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTTGTCAAGATTCCTGTCGATTCATGCCCTTTGGGTTACGGTGTCCCTCAGTGATGCAGCCCTACC
CTTTGGTTGGGGACATTATGATTTGTGAAGACTCAGATTTACACGGAAGAAGGAAAGTTGGGATTA
CATGGCCTGCCAGCCGAATCCACGGACATGACAAAATATCTGAAAGTAAAACCTCGATCCTCCGGATATT
ACCTGTGGAGACCCTCCTGAGACGTTCTGTGCAATGGGCAATCCCTACATGTGCAATAATGAGTGTGATG
CGAGTACCCTGAGCTGGCACACCCCTGAGCTGATGTTTGTATTTGAAGGAAGACATCCCTCCACATT
TTGGCAGTCTGCCACTTGAAGGAGTATCCAAGCCTCTCCAGGTTAACATCACTCTGTCTGGAGCAAA
ACCATTGAGCTAACAGACAACATAGTTATTACCTTTGAATCTGGGCGTCCAGACCAATGATCCTGGAGA
AGTCTCTCGATTATGGACGAACATGGCAGCCCTATCAGTATTATGCCACAGACTGCTTAGATGCTTTTCA
CATGGATCCTAAATCCGTGAAGGATTTATCACAGCATACGGTCTTAGAAATCATTTCACAGAAAGAGTAC
TCAACAGGGTATAACAACAAATAGCAAAATATCCACTTTGAAATCAAAGACAGGTTCCGCTTTTTGCTG
GACCTCGCTACGCAATATGGCTTCCCTCTACGGACAGCTGGATAACAACCAAGAACTCAGAGATTTCTT
TACAGTCACAGACCTGAGGATAAGGCTGTTAAGACCAGCCGTTGGGAAATATTTGTAGATGAGTACAC
TTGGCACGCTACTTTTACGCGATCTCAGACATAAAGGTGCGAGGAAGGTGCAAGTGAATCTCCATGCCA
CTGTATGTGTGTATGACAACAGCAAAATTGACATGCGAATGTGAGCACAACACTACAGTCCAGACTGTGG
GAAATGCAAGAAGAATTATCAGGGCCGACCTTGGAGTCCAGGCTCCTATCTCCCATCCCCAAAGGCACT
GCAAAATACCTGTATCCCCAGTATTTCCAGTATTGGTACGAATGTCTGCGACAACGAGCTCCTGCACTGCC
AGAACGGAGGGACGTGCCACAACAGTGCCTGCCTGTGCCCGCCGATACACGGGCATCCTCTGCGA
GAAGCTGCGGTGCGAGGAGGCTGGCAGCTGCGGCTCCGACTCTGGCCAGGGCGCGCCCCGCACGGCTCC
CCAGCGTCTGCTGCTGACCACGCTGCTGGGAACCGCCAGCCCCCTGGTGTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206485 representing NM_014917
 Red=Cloning site Green=Tags(s)

MYLSRFLSIHALWVTVSSVMQPYPLVWGHYDLCKTQIYTEEGKVWDYMACQPESTDMTKYLKVKLDPPDI
 TCGDPPETF CAMGNPYMCNNECDASTPELAHPPELMFDFEGRHPSTFWQSATWKEYPKPLQVNITLSWSK
 TIELTDNIVITFESGRPDQMILEKSLDYGRTWQPYQYYATDCLDAFHMDPKSVKDL SQHTVLEIICTEY
 STGYTTNSKIIHFEEKDRFAFFAGPRLRNMASLYGQLDTTKKLRDFFTVTLRIRLLRPVAGEIFVDELH
 LARYFYAISDIKVRGRCKNLHATVCVYDNSKLTCEHNNTTGPDCGKCKKNYQGRPWSYLPKPKGT
 ANTCIPSISSIGTNVCDNELLHCQNGGTCHNNVRLCPAAYTGILCEKLRCEEAGSCGSDSGQGAPP HGS
 PALLLLTLLGTASPLVF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014917

ORF Size: 1314 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_014917.4](#)

RefSeq Size: 3015 bp

RefSeq ORF: 1317 bp

Locus ID: 22854

UniProt ID: [Q9Y2I2](#)

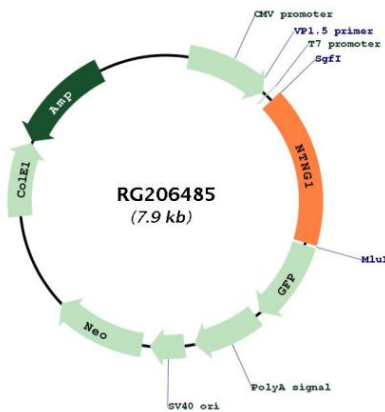
Cytogenetics: 1p13.3

Domains: EGF_Lam, laminin_Nterm

Protein Pathways: Axon guidance

Gene Summary: This gene encodes a preproprotein that is processed into a secreted protein containing eukaryotic growth factor (EGF)-like domains. This protein acts to guide axon growth during neuronal development. Polymorphisms in this gene may be associated with schizophrenia. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG206485