

## Product datasheet for **SC324248**

### Netrin G1 (NTNG1) (NM\_014917) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Netrin G1 (NTNG1) (NM_014917) Human Untagged Clone
Tag:	Tag Free
Symbol:	Netrin G1
Synonyms:	Lmnt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_014917.2  
TGCAGCCGGAGCAGCACCAGCAACAGCAGCGGGACGGAGTTAGGACCGCTCGG  
AGCGCACAGGTCTCGAGGTGTTGGTGCCAGAAGAAAAGAATGATTGATGGGAAACAGAC  
ACCGGGCTATAGACACTCATCCTTTTGCTTCAGATACTGATATCTCAGCCTGCTTGAGCA  
TCCTTGTGAGCTGTGAACATTGAGGATCACTCAGGGTTATCGGATGTACAACGGGAGAG  
CCATCGCTTTGCTAAATTATTATCTGCAATTGGACATCTTTACAAAACCAAACCTAGAC  
CTGAGTCTAATAGATATGTTCTAAGACAAAAGAAAAGCTGCAAGTTGTTAACGCCAACA  
CACAAGTATGTTAGGCTCCACCAAAGTCCCTCAATATACCTGAATACGCACAATATCTTA  
ACTCTTCATATTTGGTTTTGGGATCTGCTTTGAGGTCCCCTCTTCATTTAAAAAAAATA  
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AGATCGCAGATCATAAAGCAAGCTCTGCTTTAGTTTCCAAGAAGATTACAAGAATTTAG  
AGATGATTTGTCAAGATTCCTGTGCGATTATGCCCTTTGGGTTACGGGTGCTCCTCAGTGA  
TGCAGCCCTACCCCTTTGGTTTGGGGACATTATGATTTGTGTAAGACTCAGATTTACACGG  
AAGAAGGGAAAGTTTGGGATTACATGGCCTGCCAGCCGGAATCCACGGACATGACAAAAT  
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TGATCCTGGAGAAGTCTCTCGATTATGGACGAACATGGCAGCCCTATCAGTATTATGCCA  
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CGGTCTTAGAAATCATTTGCACAGAAGAGTACTCAACAGGGTATACAACAAATAGCAAAA  
TAATCCACTTTGAAATCAAAGACAGGTTTCGCGTTTTTTGCTGGACCTCGCCTACGCAATA  
TGGCTTCCCTCTACGGACAGCTGGATACAACCAAGAAACTCAGAGATTTCTTTACAGTCA  
CAGACCTGAGGATAAGGCTGTTAAGACCAGCCGTTGGGGAATATTTGTAGATGAGCTAC  
ACTTGGCAGGCTACTTTTACGCGATCTCAGACATAAAGGTGCGAGGAAGGTGCAAGTGA  
ATCTCCATGCCACTGTATGTGTATGACAACAGCAAATTGACATGCCAATGTGAGCACA



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ACACTACAGGTCCAGACTGTGGGAAATGCAAGAAGAATTATCAGGGCCGACCTTGGAGTC
CAGGCTCTATCTCCCCATCCCCAAAGGCACTGCAAATACCTGTATCCCCAGTATTTCCA
GTATTGGTACGAATGTCTGCGACAACGAGCTCCTGCACTGCCAGAACGGAGGGACGTGCC
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TCTTGTGCTTTAACACTGGAAGATTTAAGAATAAAAACTCCTGCATAAACAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA
  
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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM\_014917
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_014917.2](#), [NP\\_055732.2](#)
- 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]  
Transcript Variant: This variant (3) contains a longer 5' UTR and lacks two exons in the 3' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (G1c) is shorter than isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.