

## Product datasheet for **RC224596**

### Netrin 4 (NTN4) (NM\_021229) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Netrin 4 (NTN4) (NM_021229) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Netrin 4
Synonyms:	PRO3091
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC224596 representing NM\_021229  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGAGCTGCGCGGGCTGCTGCTCTGGGGCTGCACGGTGGTGGCCGAGGACTGAGTGGAGTAG  
 CTGGAGTGAGTTCCCGCTGTGAAAAAGCCTGCAACCCTCGGATGGGAAATTTGGCTTTGGGGCGAAAAC  
 CTGGGCAGACACCACCTGCGGTGAGAATGCTACCGAACTGACTGCTTCTACAGTGAGAACACGGATCTG  
 ACTTGTGCGGCAGCCAAATGTGACAAGTCAATGCTGCCTATCCTCACCTGGCTCACCTGCCATCTGCCA  
 TGGCAGACTCATCTTCCGGTTTCTCGCACATGGTGGCAGTCTGCGGAGGATGTGCACAGAGAAAAGAT  
 CCAGTTAGACCTGGAAGCTGAATTCTACTTCACTCACCTAATTGTGATGTTCAAGTCCCCAGGCCGGCT  
 GCCATGGTGTGGACCGCTCCAGGACTTTGGGAAAACATGGAAGCCTTATAAGTACTTTGCGACTAACT  
 GCTCCGCTACATTTGGCCTGGAAGATGATGTTGTCAAGAAGGGCGCTATTTGACTTCTAAATACTCCAG  
 TCCTTTTCCATGCACTGGAGGAGAGTTATTTTCAAAGCTTTGTCACCACCATACGATACAGAGAACCCT  
 TACAGTGCCAAAAGTTTCAAGGAGCAGCTGAAGATCACCAACCTTCGCGTGCAGCTGTGAAAACGACAGTCTT  
 GTCCTGTGAGAGAAATGACCTGAACGAAGAGCCTCAACATTTTACACACTATGCAATCTATGATTTTCAT  
 TGTCAAGGGCAGCTGCTTCTGCAATGGCCACGCTGATCAATGCATACCTGTTTCATGGCTTCAGACCTGTC  
 AAGGCCCCAGGAACATCCACATGGTCCATGGGAAGTGTATGTGTAAGCACAACACAGCAGGCAGCCACT  
 GCCAGCACTGTGCCCCGTTATACAATGACCGGCCATGGGAGGCAGCTGATGGCAAACCGGGGCTCCCAA  
 CGAGTGCAGAACCTGCAAGTGAATGGGCATGCTGATACCTGTCACTTCGACGTTAATGTGTGGGAGGCA  
 TCAGGGAAATCGTAGTGGTGGTGTCTGTGATGACTGTCAGCACAACACAGAAGGACAGTATTGCCAGAGGT  
 GCAAGCCAGGCTTCTATCGTGACCTGCGGAGACCCTTCTCAGCTCCAGATGCTTGCAAACCGTGTTCCTG  
 CCATCCAGTAGGATCAGCTGTCCCTTCTGCCAACTCAGTGACCTTCTGCGACCCCAAGCAATGGTACTGC  
 CCTTGCAAGCCTGGGGTGGCAGGGCGACGTTGTGACAGGTGCATGGTGGGATACTGGGGCTTCGGAGACT  
 ATGGCTGTGACCATGTGACTGTGCGGGGAGCTGTGACCTATCACCGGAGACTGCATCAGCAGCCACAC  
 AGACATAGACTGGTATCATGAAGTTCCTGACTTCCGTCGCAATAAGAGCGAACCAGCCTGGGAG  
 TGGGAGGATGCGCAGGGGTTTTCTGCATTTCTACACTCAGGTAATGCGAATGTAAGGAACAGACATTAG  
 GAAATGCCAAGGCATTCTGTGGAATGAAATATTCATATGTGCTAAAAATAAGATTTTATCAGCTCATGA  
 TAAAGTACTCATGTTGAGGTCAATGTGAAGATTAAGAAAGTCTTAAATCTACCAAAGTGAAGATTTTC  
 CGAGGAAAGCGAACATTATATCCAGAATCATGGACGGACAGAGGATGCATTTGTCCAATCCTCAATCCTG  
 GTTTGGAATACCTTGTAGCAGGACATGAGGATATAAGAACAGGCAAACTAATTGTGAATATGAAAAGCTT  
 TGTCAGCACTGGAAACCTTCTCTTGAAGAAAAGTCATGGATATTTTAAAAAGAGAGTGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC224596 representing NM\_021229  
 Red=Cloning site Green=Tags(s)

MGSCARLLLLWGCTVVAAGLSGVAGVSSRCEKACNPRMGNLALGRKLWADTTCGQNATELYCFYSENTDL  
 TCRQPKCDKNAAYPHLAHLPSAMADSSFRFPRTWWQSAEDVHREKIQLDLEAEFYFTHLIVMFKSPRPA  
 AMVLDRSQDFGKTKWPKYKATNCSATFLEDDVVKKGAICTSKYSSPFCTGGEVIFKALSPPYDTENP  
 YSAKVQEQLKITNLRVQLLKRQSCPCQRNDLNEEPQHFTHYAIYDFIVKGSFCNGHADQCIPVHGFRPV  
 KAPGTFHMVHGKCMCKHNTAGSHCQHCAPLYNDRPWEAADGKTGAPNECRTCKCNGHADTCHFVNVWEA  
 SGNRSGGVCDDCQHNTGQYQYRCKPGFYRDLRRPFSAPDACKPCSCHPVGSAVLPANSVTFCDPSNGDC  
 PCKPGVAGRRCDRCMVGYWFGDYGCRPCDCAGSCDPITGDCISSHTDIDWYHEVPDFRPHNKSEPAWE  
 WEDAQGFALLHSGKCECKEQLGNAKAFCGMKYSYVLKIKILSAHDKGTHVEVNVKIKKVLKSTLKIIF  
 RGKRTLYPESWTDRGCTCPILNPGLEYLVAGHEDIRTGKLIIVNMKSFVQHWKPSLGRKVMIDLKRECK

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8045\\_a08.zip](https://cdn.origene.com/chromatograms/mk8045_a08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021229

**ORF Size:** 1884 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\\_021229.4](#)

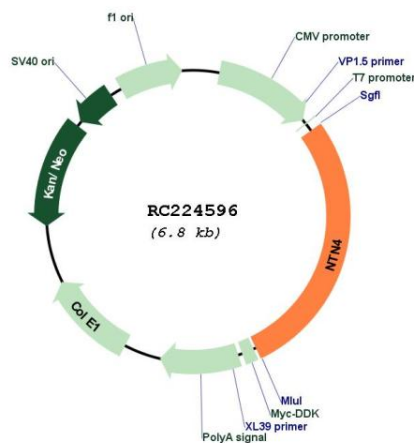
**RefSeq Size:** 3607 bp

**RefSeq ORF:** 1887 bp

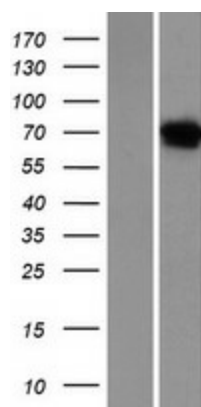
**Locus ID:** 59277  
**UniProt ID:** [Q9HB63](#)  
**Cytogenetics:** 12q22  
**Domains:** NTR, EGF\_Lam, laminin\_Nterm  
**Protein Families:** Transmembrane  
**Protein Pathways:** Axon guidance  
**MW:** 69.9 kDa

**Gene Summary:** This gene encodes a member of the netrin family of proteins, which function in various biological processes including axon guidance, tumorigenesis, and angiogenesis. Netrins are laminin-related proteins that have an N-terminal laminin-type domain, epidermal growth factor-like repeat domain, and a positively charged heparin-binding domain at the C-terminus. The protein encoded by this gene is involved in processes including neurite growth and migration, angiogenesis and mural cell adhesion to endothelial cells. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

### Product images:



Circular map for RC224596



Western blot validation of overexpression lysate (Cat# [LY412004]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224596 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).