

Product datasheet for **RC218429**

Netrin 1 (NTN1) (NM_004822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Netrin 1 (NTN1) (NM_004822) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Netrin 1
Synonyms:	MRMV4; NTN1L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC218429 representing NM_004822
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCGCGCAGTGTGGGAGGCGCTGGCGGCGCTGGCGGCGGTGGCGTGCCTGGTGGGCGCGGTGCGCG
 GCGGGCCCGGGCTCAGCATGTTTCGCGGGCCAGGCGGCGCAGCCGATCCCTGCTCGGACGAGAACGGCCA
 CCCGCGCCGCTGCATCCCGACTTTGTCAATGCGGCCTTCGGCAAGGACGTGCGCGTGTCCAGCACCTGC
 GCCCGGCCCGGCGCGCTACTGCGTGGTGAGCGAGCGCGGAGGAGCGGCTGCGCTCGTGCCACCTCT
 GCAACGCGTCCGACCCCAAGAAGGCGCACCCGCCCGCCTTCTCACCGACCTCAACAACCCGCACAACCT
 GACGTGCTGGCAGTCCGAGAACTACCTGCAGTTCGCGACAACGTACGCTCACACTGTCCTCGGCAAG
 AAGTTCGAAGTGACCTACGTGAGCCTGCAGTTCGCTCGCCGCGGCCGAGTCCATGGCCATCTACAAGT
 CCATGGACTACGGGCGCAGTGGGTGCCCTTCCAGTTCCTACTCCACGAGTCCGCAAGATGTACAACCG
 GCCGACCGCGCGCCCATCACCAGCAGAACGAGCAGGAGGCCGTGTGCACCGACTCGCACACCGACATG
 CGCCCGCTCTCGGGCGGCTCATCGCCTTCAGCACGCTGGACGGGCGGCCCTCGGCGCAGCACTTCGACA
 ACTCGCCCGTGTGCAGGACTGGGTACGGCCACAGACATCCGCGTGGCCTTCAGCCGCCTGCACACGTT
 CGGCGACGAGAACGAGGACGACTCGGAGCTGGCGCGGACTCGTACTTCTACGCGGTGTCCGACCTGCAG
 GTGGGCGGCGGTGCAAGTGCAACGGCCACGCGGCCCGCTGCGTGCAGGACCGCACCGACAGCCTGGTGT
 GCGACTGCAGGCACAACCGGCCGCGCCGAGTGCAGCCGCTGCAAGCCCTTCCACTACGACCGGCCCTG
 GCAGCGCGCCACAGCCCGAAGCCAACGAGTGCCTGTAAGTCAACCTGCATGCCCGGCGCTGC
 CGTTTCAACATGGAGCTCTACAAGCTTTCGGGCGCAAGAGCGGAGGTGTCTGCCTCAACTGTCGCCACA
 ACACCCCGCGCCACTGCCATTACTGCAAGGAGGGCTACTACCGGACATGGGCAAGCCCATACCCA
 CCGGAAGGCTGCAAGCCTGTGATTGCCACCCTGTGGGTGCTGCTGGCAAACCTGCAACCAAACCAACC
 GGCCAGTGTCCCTGCAAGGACGCGTGCAGGATCACCTGCAACCGCTGCGCCAAGGCTACCAGCAGA
 GCCGCTCTCCATCGCCCTGCATAAAGATCCCTGTAGCGCCGCGGACTGCAGCCAGCAGCGTGG
 GGAGCCTGAAGACTGCGATTCTACTGCAAGGCTCCAAGGGGAGTGAAGATTAACATGAAAAAGTAC
 TGCAAGAAGGACTATGCCGTCCAGATCCACATCCTGAAGGCGGACAAGGCGGGGACTGGTGAAGTTCA
 CGGTGAACATCATCTCCGTGATAAGCAGGGCACGAGCCGATCCGCCGCGGTGACCAGAGCCTGTGGAT
 CCGCTCGCGGGACATCGCTGCAAGTGTCCAAAATCAAGCCCTCAAGAAGTACCTGCTGCTGGGCAAC
 GCGGAGGACTCTCCGACAGAGCGGCATCGTGGCCGATAAAAAGCAGCCTGGTGTCCAGTGGCGGGACA
 CGTGGGCGGGCGGCTGCGCAAGTTCAGCAGCGTGAAGAAGGGCAAGTGAAGAAGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC218429 representing NM_004822
 Red=Cloning site Green=Tags(s)

MMRAVWEALAALAAVAFLVAVRGGPGLSMFAGQAAQPDPCSDENGHPRRICIPDFVNAAFGKDVRVSSTC
 ARPPARYCVVSEERGEERLRSCHLCNASDPKKAHPPAFLDLNPNHLTCWQSENLYQFPHNVTLSLGLK
 KFEVTVYVSLQFCSPRPESMAIYKSMYDGRWVPPQFYSTQCRKMYNRPHRAPITKQNEQEAVCTDSHTDM
 RPLSGGLIAFSTLDGRPSAHDFDNSPVLQDWTATDIRVAFSRLHTFGDENEDDSELARDSYFYAVSDLQ
 VGGRCKCNGHAARCVRDRDLSLVCDCRHNTAGPECDRCKPFHYDRPWQRATAREANECVACNCLHARRC
 RFNMELYKLSGRKSGGVCLNCRHNTAGRHCHYCKEGYRDMGKPIIHRKACKACDCHPVGAAGKTCNQTT
 GQCPCCKDGVGTITCNRAKGYQSRSPAIAPCIKIPVAPPTTAASSVEEPEDCDSYCKASKGLKINMKKY
 CKKDYAVQIHLKADKAGDWWKFTVNIISVYKQGTSRIRRGDQSLWIRSRIACKCPKIKPLKYLKLLGN
 AEDSPDQSGIVADKSSSLVIQWRDTRARRLRKFQREKKGKCKKA

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_004822

ORF Size: 1812 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

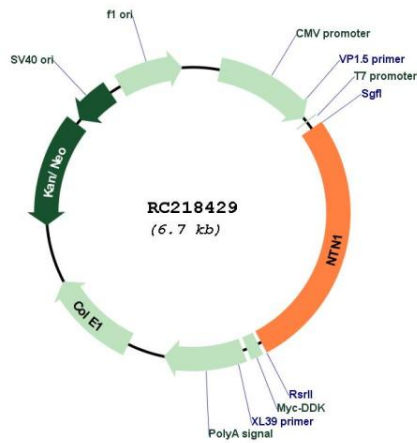
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_004822.3](#)

RefSeq Size:	1989 bp
RefSeq ORF:	1815 bp
Locus ID:	9423
UniProt ID:	O95631
Cytogenetics:	17p13.1
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
MW:	67.6 kDa
Gene Summary:	Netrin is included in a family of laminin-related secreted proteins. The function of this gene has not yet been defined; however, netrin is thought to be involved in axon guidance and cell migration during development. Mutations and loss of expression of netrin suggest that variation in netrin may be involved in cancer development. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218429