

Product datasheet for **RC226901**

HNT (NTM) (NM_001144059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNT (NTM) (NM_001144059) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNT
Synonyms:	CEPU-1; HNT; IGLON2; NTRI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226901 representing NM_001144059 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTCTGTGGGTACCTGTTCTGCCCTGGAAGTGCCTCGTGGTCTGTCTCTCAGGCTGCTGTTCC
TTGTACCCACAGGAGTGCCCGTGCAGCGGAGATGCCACCTCCCCAAAGCTATGGACAACGTGACGGT
CCGGCAGGGGAGAGCGCCACCCTCAGGTGCACTATTGACAACCGGGTCACCCGGTGGCTGGCTAAAC
CGCAGCACCATCCTCTATGCTGGGAATGACAAGTGGTGCCTGGATCCTCGCGTGGTCTTCTGAGCAACA
CCCAAACGCAGTACAGCATCGAGATCCAGAACGTGGATGTGTATGACGAGGGCCCTTACACCTGCTCGGT
GCAGACAGACAACCACCCAAAGACCTCTAGGGTCCACCTCATTGTGCAAGTATCTCCAAAATTGTAGAG
ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCACCTGCATAGCAACTGGTAGACCAG
AGCCTACGGTTACTTGGAGACACATCTCTCCAAAGCGGTTGGCTTTGTGAGTGAAGACGAATACTTGGAA
AATTCAGGGCATCACCCGGGAGCAGTACAGGGACTACGAGTGCAGTGCCTCCAATGACGTGGCCGCGCCC
GTGGTACGGAGAGTAAAGGTACCCGTGAACATCCACCATACATTTGAGAAGCCAAGGGTACAGGTGTCC
CCGTGGGACAAAAGGGGACACTGCAGTGTGAAGCCTCAGCAGTCCCCTCAGCAGAATTCAGTGGTACAA
GGATGACAAAAGACTGATTGAAGGAAAGAAAGGGTAAAAGTGGAAAACAGACCTTCTCTCAAAATC
ATCTTCTCAATGTCTCTGAACATGACTATGGAACTACACTTGGTGGCCTCCAACAAGCTGGCCACA
CCAATGCCAGCATCATGCTATTTGGTGAAGTGTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC226901 representing NM_001144059
Red=Cloning site Green=Tags(s)

MGVCGYLFLPWKCLVVVSLRLLFLVPTGVPVRSGDATFPKAMDNVTVRQGESATLRCTIDNRVTRVAWLN
 RSTILYAGNDKWCLDRPVVLLSNTQTQYSIEIQNVDDVYDEGPYTCVQTDNHPKTSRVHLIVQVSPKIVE
 ISSDISINEGNNISLTCIATGRPEPTVWRHISPKAVGFVSEDEYLEIQGITREQSGDYECASNDVAAP
 VVRRVKVTVNYPPYISEAKGTGVPVGQKGLQCEASAVPSAEFQWYKDDKRLIEGKKGKVENRPFSLKL
 IFFNVSEHDYGNVTCVASNKLGHNASIMLFGETVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001144059

ORF Size: 948 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_001144059.1](#), [NP_001137531.1](#)

RefSeq ORF: 951 bp

Locus ID: 50863

UniProt ID: [Q9P121](#)

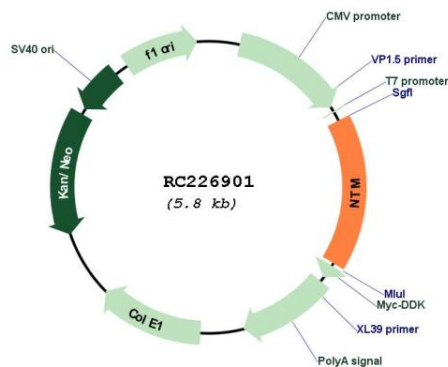
Cytogenetics: 11q25

Protein Families: Transmembrane

MW: 34.8 kDa

Gene Summary: This gene encodes a member of the IgLON (LAMP, OBCAM, Ntm) family of immunoglobulin (Ig) domain-containing glycosylphosphatidylinositol (GPI)-anchored cell adhesion molecules. The encoded protein may promote neurite outgrowth and adhesion via a homophilic mechanism. This gene is closely linked to a related family member, opioid binding protein/cell adhesion molecule-like (OPCML), on chromosome 11. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RC226901