

Product datasheet for **RC223990**

NBL1 (NM_182744) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NBL1 (NM_182744) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NBL1
Synonyms: D1S1733E; DAN; DAND1; NB; NO3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC223990 representing NM_182744
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCAACCTCATGAGTCAGACAAGCAGGGCTGTGTCTATCTGGAAGTTTCCAGCCAAGCTAGGTA
AAACACATGGACACAGGGCTCTGGAGGCCACGGGCATGATGCTTCGGGTCTGGTGGGGCTGTCTCCC
TGCCATGCTACTGGCTGCCCCACCACCCATCAACAAGCTGGCACTGTTCCAGATAAGAGTGCCTGGTGC
GAAGCCAAGAACATCACCCAGATCGTGGCCACAGCGGCTGTGAGGCAAGTCCATCCAGAACAGGGCGT
GCCTAGGACAGTCTTACGCTACAGCGTCCCCAACACCTTCCACAGTCCACAGAGTCCCTGGTTCACTG
TGAATCCTGCATGCCAGCCAGTCCATGTGGGAGATTGTGACGCTGGAGTGCCCGGGCCACGAGGAGGTG
CCCAGGGTGGACAAGCTGGTGGAGAAGATCCTGCACTGTAGCTGCCAGGCCTGCGCAAGGAGCCTAGTC
ACGAGGGGCTGAGCGTCTATGTGCAGGGCGAGGACGGGCCGGATCCCAGCCCGGCACCCACCCCTACCC
CCATCCCCACCCCATCCTGGCGGGCAGACCCCTGAGCCCGAGGACCCCTGGGGCCCCCACACAGAG
GAAGAGGGGGCTGAGGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC223990 representing NM_182744
 Red=Cloning site Green=Tags(s)

MPGNLMSQTSRAVSIWKFPKLGKTHGHRAL EATGMMLRVLVGAVLPAMLLAAPPINKLALFPDKSAWC
 EAKNITQIVGHSGCEAKSIQNRACLQCFSYSVPNTFPQSTESLVHCDSCMPAQSMWEIVTLECPGHEEV
 PRVDKLVKILHCSCQACGKEPSHEGLSVYVQGEDGPGSQPGTHPHPHPHPHGGQTPEPEDPPGAPHTE
 EEGAED

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_182744

ORF Size: 648 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_182744.3](#), [NP_877421.2](#)

RefSeq Size: 2079 bp

RefSeq ORF: 651 bp

Locus ID: 4681

UniProt ID: [P41271](#)

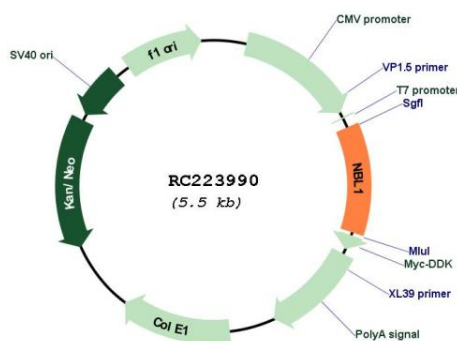
Cytogenetics: 1p36.13

Protein Families: Secreted Protein

MW: 23.2 kDa

Gene Summary: This gene product is the founding member of the evolutionarily conserved CAN (Cerberus and DAN) family of proteins, which contain a domain resembling the CTCK (C-terminal cystine knot-like) motif found in a number of signaling molecules. These proteins are secreted, and act as BMP (bone morphogenetic protein) antagonists by binding to BMPs and preventing them from interacting with their receptors. They may thus play an important role during growth and development. Alternatively spliced transcript variants have been identified for this gene. Read-through transcripts between this locus and the upstream mitochondrial inner membrane organizing system 1 gene (GenelD 440574) have been observed. [provided by RefSeq, May 2013]

Product images:



Circular map for RC223990