

Product datasheet for **RC236325**

NBL1 (NM_001278164) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NBL1 (NM_001278164) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NBL1
Synonyms: D1S1733E; DAN; DAND1; NB; NO3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236325 representing NM_001278164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTTCGGGTCCTGGTGGGGCTGTCTCCCTGCCATGCTACTGGCTGCCCCACCACCCATCAACA
AGCTGGCACTGTCCCAGATAAGAGTGCCTGGTGCAGCAAGAACATCACCCAGATCGTGGGCCACAG
CGGCTGTGAGGCCAAGTCCATCCAGAACAGGGCGTGCCTAGGACAGTGCCTCAGCTACAGCGTCCCCAAC
ACCTTCCCACAGTCCACAGAGTCCCTGGTTCAGTGTGACTCCTGCATGCCAGCCAGTCCATGTGGGAGA
TTGTGACGCTGGAGTGCCCGGGCCACGAGGAGGTGCCAGGGTGGACAAGCTGGTGGAGAAGATCCTGCA
CTGTAGCTGCCAGGCTGCGGCAAGGAGCCTAGTACGAGGGGCTGAGCGTCTATGTGCAGGGCCAGGAC
GGGCCGGGATCCCAGCCCGGCACCCACCCTCACCCCATCCCCACCCCATCCTGGCGGGCAGACCCCTG
AGCCCCGAGGACCCCTGGGGCCCCCACACAGAGGAAGAGGGGGCTGAGGAC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236325 representing NM_001278164
Red=Cloning site Green=Tags(s)

MMLRVLVGAVLPAMLLAAPPINKLALFPDKSAWCEAKNITQIVGHSGCEAKSIQNRACLGCFSYSVFN
TFPQSTESLVHCDSCMPAQSMWEIVTLECPGHVEVPRVDKLVKILHCSCQACGKEPSHEGLSVYVQGED
GPGSQGTHPHPHPHPHPGGQTPEPEDPPGAPHTEEEGAED

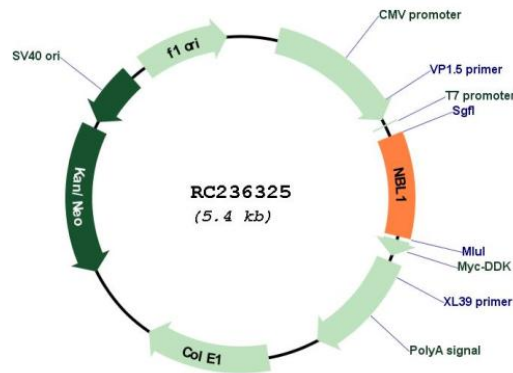
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001278164

ORF Size: 543 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:	<ol style="list-style-type: none">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:	<u>NM_001278164.1</u> , <u>NP_001265093.1</u>
RefSeq Size:	2060 bp
RefSeq ORF:	546 bp
Locus ID:	4681
UniProt ID:	<u>P41271</u>
Cytogenetics:	1p36.13
Protein Families:	Secreted Protein
MW:	19.9 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]