

Product datasheet for **SC109478**

NBL1 (NM_005380) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NBL1 (NM_005380) Human Untagged Clone
Tag:	Tag Free
Symbol:	NBL1
Synonyms:	D1S1733E; DAN; DAND1; NB; NO3
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005380, the custom clone sequence may differ by one or more nucleotides

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ATGATGCTTCGGGTCTGGTGGGGGCTGCTCCCTGCCATGCTACTGGCTGCCACCACCCATCAACA  
AGCTGGCACTGTTCCAGATAAGAGTGCCTGGTGCAGCAAGAACATCACCCAGATCGTGGGCCACAG  
CGGCTGTGAGGCCAAGTCCATCCAGAACAGGGCGTGCCTAGGACAGTGCTTCAGCTACAGCGTCCCCAAC  
ACCTTCCCACAGTCCACAGAGTCCCTGGTTCAGTGTGACTCCTGCATGCCAGCCAGTCCATGTGGGAGA  
TTGTGACGCTGGAGTGCCCGGGCCACGAGGAGGTGCCAGGGTGGACAAGCTGGTGGAGAAGATCCTGCA  
CTGTAGCTGCCAGGCCTGCGGCAAGGAGCCTAGTCACGAGGGGCTGAGCGTCTATGTGCAGGGCAGGAC  
GGGCCGGGATCCCAGCCCGGCACCCACCCCTACCCCCATCCCCACCCCATCCTGGCGGGCAGACCCCTG  
AGCCCCGAGGACCCCTGGGGCCCCCACACAGAGGAAGAGGGGGCTGAGGACTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005380 unedited</p> <pre>GCGAATTCGCACGAGGCGCAGCCAGCCGAGCGTCGCGGGGCGCCCCCGCCCTGCCGG CCGCCTCGCCGAGCCTCCTGGGGCGCCCGGGCCCGCAGCCCCGCACCCAGCTCCGCAGG ACCGGGCGGGCGCGCGGGGCTCTGGAGGCCACGGGCATGATGCTTCGGGTCTGGTGGG GCTGTCTCCTGCCATGCTACTGGCTGCCCCACCACCCATCAACAAGCTGGCACTGTTT CCAGATAAGAGTGCCTGGTGCGAAGCCAAGAACATCACCCAGATCGTGGGCCACAGCGGC TGTAAGGCCAAGTCCATCCAGAACAGGGCGTGCCTAGGACAGTGTTCAGCTACAGCGTC CCCAACACCTTCCACAGTCCACAGAGTCCCTGGTTCAGTGTGACTCCTGCATGCCAGCC CAGTCCATGTGGGAGATTGTGACGCTGGAGTGCCCGGGCCACGAGGAGGTGCCAGGGTG GACAAGCTGGTGGAGAAGATCCTGCACTGTAGCTGCCAGGCTGCGGCAAGGAGCCTAGT CACGAGGGGCTGAGCGTCTATGTGCAGGGCGAGGACGGGCGGGATCCAGNCCGGACCAA ACCCTTAACCCCAATTCCCAACCCCATCCTGGCGGGCAGACCCCTGAGCCCCGAGACCCC CCCTGGGGCCCCCAACAGAGAAAAAGNGGGCTGAGACTGAAGCCCCCAATCTTCT CCCTCTTATCCCCTGGGAATGGTGGGTCTACTCTCTGGGAAGCAGGGGAGAGCTGAAC CCCCCTTGGCACTGGAGGACTGGCTTCAACTCGACCTGATGCTGCCGGTTGCATGGAAC TGAAGGGCCGGTAGACCAACTGCCATTTATAT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005380 unedited</p> <pre>NCCTGGCGGGNATATTTTCTGGAGTAGTCTGNAGGGTCCANCAGGNATACTGTCCA ATGGTGACAAGCTCCANAAGCCCGCTCGCAACAGCCAGGAGGGCCAGGCCACCCAGGC AGGAGGCAGTGGGCTGGCAGCCACCCTGGGCACAGAAGAGCAGACGCAGACAGTGTGG CAACGAGGGGCTTTCTTCATGGGCCCGCTGCCCTGTCCCTCCCCCAGGTCCCCACCTT CTAGGGTTAAAGTGCAGTGGGAGGGAGGAGGCAGGCAGAATTGGGGAGCTAGAGAGAGC CCAAGTGAACCTGACTGTCCACGCAAGTCCCATGTCCTCCTCGTCTGGAGTTCCTCGA GGTTCAGCGAGCCATCCCGCTAGGGCCTCTGGAACCTTGGGGGAGGGAGGTAACCCC TCACTCCCACACCCATCCGATATTTACAAGAGCATCCCTGGGAGAGGGGAGAAGCGGC CGGCTCTGGCAGCTTTCTGGGGGCCTAGAACTTGGGGCACAGTGCGGGGCACTAACATT CCTAACGGGAGAGGAGGGGGATGCTCGTCTCAGGGATGGTCTTTGGGGTTGTCCCCCT CCTTCTGGCCTTGAAGACTCTTCCCTTTTCTTTTCCCTTCTTCCCTTTCCCCACCCAG CAAGGCAAGGAAGCCAGAAAAGGCCGGAGAGCCTGGCTCCCAACTTCTGCGCCACGAT TCACAGGGTCTGCGCATCCCTGATTTCCAAACCTTTTCTTTGGGAAGGCTCCTTTAT ATGCCCGGGGGCCAACCTTCTTGGAAATGTTAAATGCGTTAACAGCCTTTGGGTTAAC TGCGTGTTCGACCCCTCCTGTCNTCCGCAGGGCGCTTCTATCCACTCCTCTCCTTTCC CTCGGGTTTGACTGATTCTTACTTAATCCCTCCACTTCACCGTT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005380
Insert Size:	2260 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_005380.3](#), [NP_005371.1](#)

RefSeq Size: 2184 bp

RefSeq ORF: 2184 bp

Locus ID: 4681

UniProt ID: [P41271](#)

Cytogenetics: 1p36.13

Domains: DAN, CT

Protein Families: Secreted Protein

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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2, 3, 4, 6, 7, and 8 encode the same isoform (2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.