

Product datasheet for **SC322394**

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322394
 GCCGAGCCTCCTGGGCGCCCGGGCCCGACCCCGCACCCAGCTCCGCAGGACCGGGC
 GGGCGCGCGGGCTCTGGAGGCCACGGGCATGATGCTTCGGGTCTGGTGGGGGTGTCC
 TCCCTGCCATGCTACTGGCTGCCCCACCACCCATCAACAAGCTGGCACTGTTCCCAGATA
 AGAGTGCTGGTGCAGCAAGCAAGAACATCACCCAGATCGTGGGCCACAGCGGCTGTGAGG
 CCAAGTCCATCCAGAACAGGGCGTGCCTAGGACAGTGTTCAGCTACAGCGTCCCCAACA
 CCTTCCCACAGTCCACAGAGTCCCTGGTTCAGTGTGACTCCTGCATGCCAGCCAGTCCA
 TGTGGGAGATTGTGACGCTGGAGTGCCCGGGCCACGAGGAGGTGCCAGGGTGGACAAGC
 TGGTGGAGAAGATCCTGCACTGTAGCTGCCAGGCCTGCGCAAGGAGCCTAGTCACGAGG
 GGCTGAGCGTCTATGTGCAGGGCAGGACGGGCGGGATCCCAGCCCGGCACCCACCTC
 ACCCCCATCCCCACCCCATCCTGGCGGGCAGACCCCTGAGCCCGAGGACCCCTGGGG
 CCCCCACACAGAGGAAGAGGGGGCTGAGGACTGAGGCCCCCAACTTCTCCCTC
 TCATCCCCCTGTGAATGTTGGGTCTACTCTCTGGGAAAGTCAAGGAGGAGGCTGAAGC
 CCCCTTTGGCACTGGATGGACTTGGCTTCAAGTCCGACTTGAATGCTGCCCGTTGCC
 ATGGAGATCTGAAGGGGGGGGTTAGAGCAAGCTGCACAATTTAATATATTCAAGAGTG
 GGGGAGGAAGCAGAGGTCTTCAAGGCTTTTTTTGGGGGGGGTGGTCTTCTCTGT
 CTGGCTTCTAGAGATGTGCTGTGGGAGGGGAGGAAGTTGGCTGAGCCATTGAGTGCTG
 GGGGAGGCCATCCAAGATGGCATGAATCGGGCTAAGGTCCCTGGGGGTGCAGATGGTACT
 GCTGAGGTCCCGGGCTTAGTGTGAGCATCTTGCCAGCCTCAGGCTTGAGGGAGGGCTGGG
 CTAGAAAGACCACTGGCAGAAACAGGAGGCTCCGGCCCCACAGGTTTCCCAAGGCCTCT
 CACCCCACTTCCCATCTCAGGGAAGCGTCGCCCCAGTGGCACTGAAGTGGCCCTCCCTC
 AGCGGAGGGGTTGGGAGTCAGGCCTGGCAGGACCCTGCTGACTCGTGGCGGGGAGCT
 GGGAGCCAGGCTCTCCGGCCTTCTCTGGCTTCTTGGCTTGCCTGGTGGGGAAAGGGG
 AGGAGGGGAAGAAGGAAAGGGAAGAGTCTTCAAGGCCAGAAGGAGGGGGACAACCCCC
 AAGACCATCCCTGAAGACGAGCATCCCCCTCTCTCCCTGTTAGAAATGTTAGTCCCCG
 CACTGTGCCCAAGTTCTAGGCCCCAGAAAGCTGTCAGAGCCGGCCGCTTCTCCCT
 CTCCCAGGGATGCTCTTTGTAATATCGGATGGGTGTGGGAGTGAAGGGTTACCTCCCTC
 GCCCAAGGTTCCAGAGGCCCTAGGCGGGATGGGCTCGTGAACCTCGAGGAACTCCAGG
 ACGAGGAGGACATGGGACTTGCCTGGACAGTCAAGGTTCACTTGGGCTCTCTAGCTCC
 CCAATTCTGCCTCCTCCTCCCTCCAGCTGCACTTTAACCTAGAAGGTGGGGACTGG
 GGGGAGGACAGGCGAGGCGGGCCATGAAGAAAGCCCTCGTTGCCAGCACTGTCTGC
 GTCTGCTTCTGTGCCAGGGTGGCTGCCAGCCACTGCCTCCTGCCTGGGGTGGCCTG
 GCCCTCCTGGCTGTTGCGACGCGGGCTTCTGGAGCTTGTACCATTGGACAGTCTCCCTG
 ATGGACCTCAGTCTTCTCATGAATAAATTCTTCAACGCCAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_005380

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_005380.4](#), [NP_005371.1](#)

RefSeq Size: 2021 bp

RefSeq ORF: 543 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.