

## Product datasheet for **RG236633**

### **NBL1 (NM\_001204086) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NBL1 (NM_001204086) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NBL1
Synonyms:	D1S1733E; DAN; DAND1; NB; NO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236633 representing NM_001204086. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC
ATGTGCAGCCTGGCCCTGCAGCAGCTCATTAGCATGGATTTGTTTGGAGACTGTTTTTCGTTTGGCGG
CAGGAGGGTCTGCGGGCTCTGGAGGCCACGGGCATGATGCTTCGGGTCCTGGTGGGGCTGTCTCCCT
GCCATGCTACTGGCTGCCCCACCACCCATCAACAAGCTGGCACTGTTCCAGATAAGAGTGCCTGGTGC
GAAGCCAAGAACATCACCCAGATCGTGGGCCACAGCGGCTGTGAGGCCAAGTCCATCCAGAACAGGGCG
TGCCTAGGACAGTCTTACGCTACAGCGTCCCCAACACCTTCCACAGTCCACAGAGTCCCTGGTTCAC
TGTGACTCCTGCATGCCAGCCAGTCCATGTGGGAGATTGTGACGCTGGAGTGCCCGGGCCACGAGGAG
GTGCCAGGGTGGACAAGCTGGTGGAGAAGATCCTGCACTGTAGCTGCCAGGCCTGCGGCAAGGAGCCT
AGTCACGAGGGGCTGAGCGTCTATGTGCAGGGCGAGGACGGGCCGGGATCCCAGCCCGGCACCCACCT
CACCCCATCCCCACCCCATCTGGCGGGCAGACCCCTGAGCCCGAGGACCCCCCTGGGGCCCCCAC
ACAGAGGAAGAGGGGGCTGAGGAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG236633  
 Blue=ORF Red=Cloning site Green=Tag(s)

MCSLALQQLISMDLFWRLFFVCGQEGLRAL EATGMMLRVLVGAVLPAMLLAAPPINKLALFPDKSAWC  
 EAKNITQIVGHSGCEAKSIQNRACLQCFYSYVPNTFPQSTESLVHCDSCMPAQSMWEIVTLECPGHEE  
 VPRVDKLVEKILHCSCQACGKEPSHEGLSVYVQGEDGPGSQPGTHPHPHPHPHGQGTPEPEDPPGAPH  
 TEEEGAED

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001204086

**ORF Size:** 645 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).

**RefSeq:** [NM\\_001204086.2](#), [NP\\_001191015.1](#)

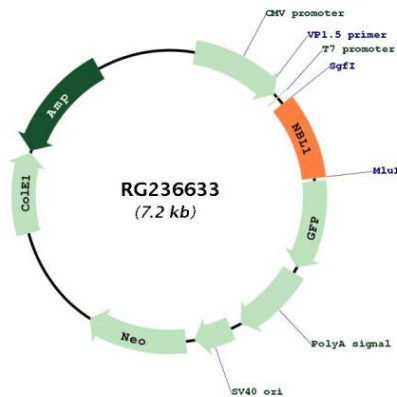
**RefSeq Size:** 2178 bp

**RefSeq ORF:** 648 bp

**Locus ID:** 4681  
**Cytogenetics:** 1p36.13  
**Protein Families:** Secreted Protein  
**MW:** 23.7 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 (GeneID 440574) have been observed. [provided by RefSeq, May 2013]

**Product images:**



Circular map for RG236633