

## Product datasheet for MR217008

### Nipbl (NM\_201232) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nipbl (NM_201232) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nipbl
Synonyms:	Idn3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217008 representing NM_201232 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR217008 representing NM\_201232  
 Red=Cloning site Green=Tags(s)

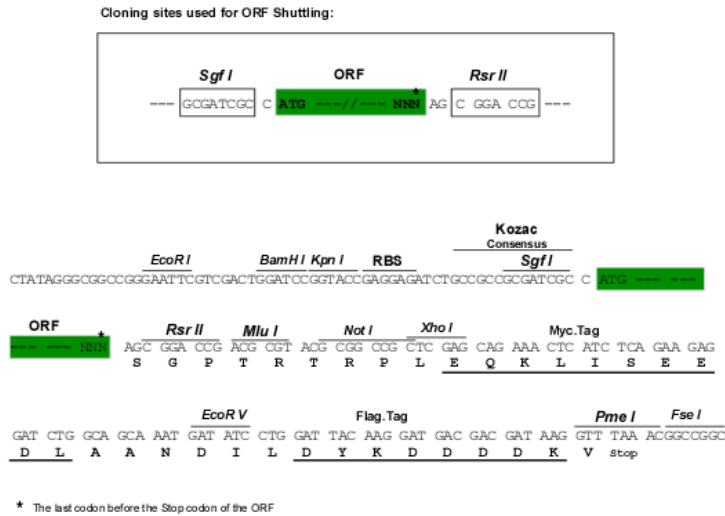
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Chromatograms: [https://cdn.origene.com/chromatograms/mm9041\\_d09.zip](https://cdn.origene.com/chromatograms/mm9041_d09.zip)

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_201232

ORF Size: 8073 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\\_201232.2](#), [NP\\_957684.1](#)

**RefSeq Size:** 8599 bp

**RefSeq ORF:** 8076 bp

**Locus ID:** 71175

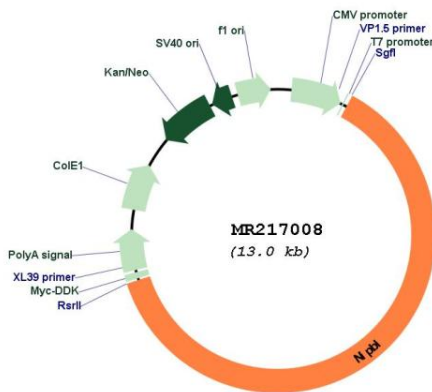
**UniProt ID:** [Q6KCD5](#)

**Cytogenetics:** 15 A1

**MW:** 304.2 kDa

**Gene Summary:** Plays an important role in the loading of the cohesin complex on to DNA (PubMed:29094699). Forms a heterodimeric complex (also known as cohesin loading complex) with MAU2/SCC4 which mediates the loading of the cohesin complex onto chromatin. Plays a role in cohesin loading at sites of DNA damage. Its recruitment to double-strand breaks (DSBs) sites occurs in a CBX3-, RNF8- and RNF168-dependent manner whereas its recruitment to UV irradiation-induced DNA damage sites occurs in a ATM-, ATR-, RNF8- and RNF168-dependent manner (By similarity). Along with ZNF609, promotes cortical neuron migration during brain development by regulating the transcription of crucial genes in this process. Preferentially binds promoters containing paused RNA polymerase II. Up-regulates the expression of SEMA3A, NRP1, PLXND1 and GABBR2 genes, among others (PubMed:28041881).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR217008