

## Product datasheet for RC211489

### IDN3 (NIPBL) (NM\_133433) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IDN3 (NIPBL) (NM_133433) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IDN3
Synonyms:	CDLS; CDLS1; IDN3; IDN3-B; Scc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211489 representing NM_133433 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGAATGGGGATATGCCCATGTCCCCATTACTACTCTTGCGGGGATTGCTAGTCTCACAGACCTCTGA  
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**Protein Sequence:** >RC211489 representing NM\_133433  
 Red=Cloning site Green=Tags(s)

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 GTSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_133433

**ORF Size:** 8412 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_133433.4](#)

**RefSeq Size:** 9717 bp

**RefSeq ORF:** 8415 bp

**Locus ID:** 25836

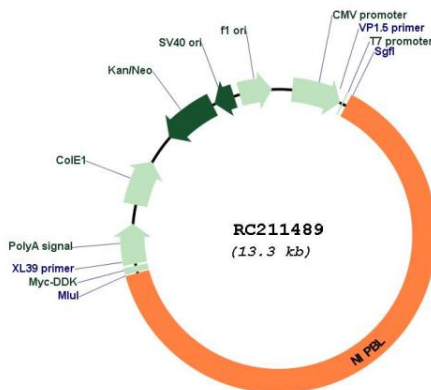
**UniProt ID:** [Q6KC79](#)

**Cytogenetics:** 5p13.2

**MW:** 315.9 kDa

**Gene Summary:** This gene encodes the homolog of the *Drosophila melanogaster* Nipped-B gene product and fungal Scc2-type sister chromatid cohesion proteins. The *Drosophila* protein facilitates enhancer-promoter communication of remote enhancers and plays a role in developmental regulation. It is also homologous to a family of chromosomal adherins with broad roles in sister chromatid cohesion, chromosome condensation, and DNA repair. The human protein has a bipartite nuclear targeting sequence and a putative HEAT repeat. Condensins, cohesins and other complexes with chromosome-related functions also contain HEAT repeats. Mutations in this gene result in Cornelia de Lange syndrome, a disorder characterized by dysmorphic facial features, growth delay, limb reduction defects, and cognitive disability. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RC211489