

Product datasheet for **SC309870**

IDN3 (NIPBL) (NM_015384) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IDN3 (NIPBL) (NM_015384) Human Untagged Clone
Tag:	Tag Free
Symbol:	NIPBL
Synonyms:	CDLS; CDLS1; IDN3; IDN3-B; Scc2
Vector:	<u>pCMV6 series</u>

Fully Sequenced ORF: >NCBI ORF sequence for NM_015384, the custom clone sequence may differ by one or more nucleotides

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AATAATACAGCAGCAGAGACAGAAGATGATGAAAGTGATGGGGAGGATAGAGGAGGAGGC
ACTTCAGGGGTGAGGCGGAGGAGGAGTCAACGTATTTCCGACGCTATTACGTAA

Restriction Sites:	Please inquire
ACCN:	NM_015384
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:	<ol style="list-style-type: none">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_015384.3 , NP_056199.2
RefSeq Size:	8648 bp
RefSeq ORF:	8094 bp
Locus ID:	25836
UniProt ID:	Q6KC79
Cytogenetics:	5p13.2

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]

Transcript Variant: This variant (B) is alternatively spliced at the 3' end compared to transcript variant A. It encodes an isoform (B) with a shorter, distinct C-terminus, compared to isoform A.