

## Product datasheet for **RC200043**

### **NUPL1 (NUP58) (NM\_014089) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                                  |
|---------------------------|--------------------------------------------------|
| Product Type:             | Expression Plasmids                              |
| Product Name:             | NUPL1 (NUP58) (NM_014089) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                          |
| Symbol:                   | NUPL1                                            |
| Synonyms:                 | NUP45; NUPL1; PRO2463                            |
| Mammalian Cell Selection: | Neomycin                                         |
| Vector:                   | pCMV6-Entry (PS100001)                           |
| E. coli Selection:        | Kanamycin (25 ug/mL)                             |



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**ORF Nucleotide Sequence:**

>RC200043 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCCACAGGGTTCTCCTTCGGGTCCGGGACTCTGGGCTCCACCACCGTGGCCGCCGGCGGGACCAGCA  
 CAGGCGGCGTTTTCTCCTTCGGAACGGGAGCGCTAGCAACCCTTCTGTGGGGCTCAATTTGGAAATCT  
 TGGAACTACTTCAACTCCAGCAACTACATCTGCTCCTTCAAGTGGTTTTGGAACCGGGCTCTTTGGATCT  
 AAACCTGCCACTGGGTTCACTCTAGGAGGAACAAATACAGGAATAGCAACAACTATAACTACAGGATTAA  
 CTCTGGGAACGCCAGCCACTACATCTGCAGCTACAACAGGCTTCAGTTTAGGATTCAATAAACCTGCAGC  
 ATCTGCCACACCATTTGCTCTACCTATTACCTCTACCTCAGCTAGCGGTCTGACTCTTTCGTCTGCTCTG  
 ACATCAACTCCAGCAGCATCCACAGGATTTACTCTAAATAATTTGGGTGGGACAACAGCCACAACACTACAA  
 CTGCATCAACAGGCTCTCTTTAGGGGGAGCCTTAGCTGGTTTGGGAGGTTCACTTTCCAGAGTACAAA  
 CACAGGAACATCAGGACTTGGACAGAATGCTTTAGGGTTGACTTTGGGAACACTACAGCAGCTACTTCAACT  
 GCAGGCAATGAAGGCCTTGGTGGTATAGATTTCACTAGCTCCTCAGATAAAAAGAGTGATAAACCGGAA  
 CAAGACCAGAGGATAGTAAAGCTCTGAAGGATGAAATCTACCTCCTGTCATCTGCCAGGATGTTGAAAA  
 TCTCCAGAAATTTGTGAAGGAGCAGAAACAAGTTCAAGAAGAAATTAGTAGAATGTCTTCAAAGCAATG  
 CTTAAGGTACAAGAAGATATTAAGCTCTGAAGCAGCTCCTGTCGTTGGCTGCCAATGGAATACAGAGAA  
 ACACCTCTCAACATTGACAAATGAAAATAGAACTGCTCAGGAGTTGAAGAATGCTGAAATAGCTTTAAG  
 AACCCAGAAGACACCCTGGACTTCAACATGAATATGCAGCTCCTGCTGACTACTTCAGAATCTTGGTT  
 CAGCAATTTGAGGTACAGCTTCAGCAGTACAGGCAGCAGATTGAAGAAGTGAAGAACTAGAAAACCATCTGCCACTC  
 AAGCAATAATTACATATAACCCCTCAAGATTTGTCAATGGCTATGCAGAAAATTTATCAAACATTTGT  
 AGCTTTAGCGGCACAACCTCAGTCTATTATGAAAATGTAAAGGTTCTGAAAGAACAGTACCTTGGCTAC  
 AGGAAAATGTTCTTGGGAGATGCTGTTGATGTGTTTGAACAAGCGAGCAGAGAAGCCAAGAGTGGCAGA  
 ACACACCCAGAGTTACTACTGGACCCACTCCTTTCAGCACCATGCCAAACGCAGCAGCCGTTGCCATGGC  
 TGCAACACTTACACAGCAGCAACAGCCTGCTACAGGGCCACAGCCATCTCTGGGAGTTAGTTTTGGAACG  
 CCATTCGGCTCAGGTATTGGCACTGGCTTGCAATCAAGTGGCTTAGGTTCTTCAAACCTTGGAGGATTTG  
 GAACTAGCTCTGGTTTTGGATGCAGCACCAGGGGCTCCACATTTGGATTTGGAACAACAATAAACCC  
 CTCAGGAAGTCTTAGTGCAGGCTTTGGCAGCTCAAGTACATCTGGGTTTAACTTCAGCAATCCTGGCATC  
 ACGGCATCAGCTGGTTTACTTTTGGGTGTCCAATCCTGCCTCTGCAGTTTTGGAACAGGAGGACAAC  
 TCCTTCAGTTGAAGAAACCTCCAGCTGGAACAAAAGAGGAAAAAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200043 protein sequence  
 Red=Cloning site Green=Tags(s)

MSTGFSFGSGTLGSTTVAAGGTSTGGVFSFGTGASSNPSVGLNFGNLGSTSTPATTSA PSSSGFGTGLFGS  
 KPATGFTLGGTNTGIATTITTLGLTGTPATTSAATTGFSLGFNKPAAATPFALPITSTSASGLTLSSAL  
 TSTPAASTGFTLNNLGGTTATTTTASTGLSLGGALAGLGGSLFQSTNTGTSGLGQNALGLTLGTTAATST  
 AGNEGLGGIDFSSSSDKKSDKTGRPEDSKALKDENLPPVICQDVENLQKFVKEQKQVQEEISRMSSKAM  
 LKVQEDIKALKQLLSLAANGIQNTLNIDKLKIETAQELKNAEIALRTQKTPPGLQHEYAAPADYFRILV  
 QQFEVQLQQYRQIEELENHLATQANNSHITPQDL SMAMQKIYQTFVALAAQLQSIHENVKVLKEQYLY  
 RKMFLGDAVDVFETRRAEAKKWQNTPRVTTGPTPFSTMPNAAAVAMAATLTQQQPATGPQPSLGVSF  
 PFGSGIGTGLQSSGLGSSNLGGFTSSGFGCSTTGASTFGFGTTNKPSGSLSAGFGSSSTSGFNFNPNP  
 TASAGLTFGVSNPASAGFGTGGQLLQLKKPPAGNKRGR

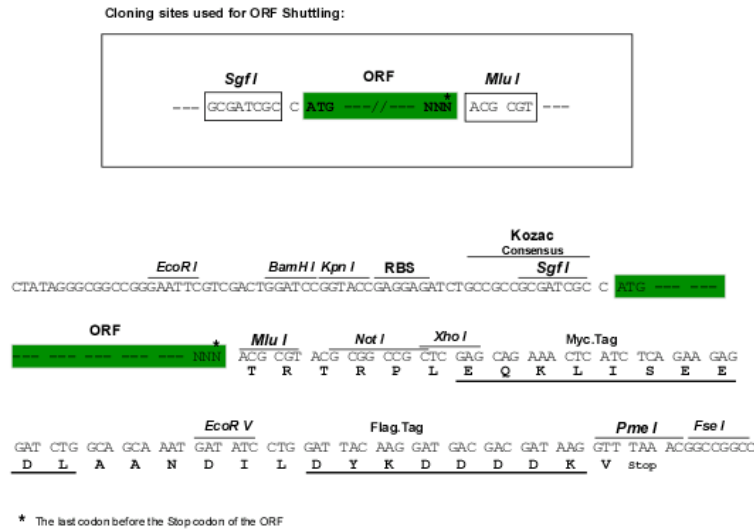
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6583\\_d09.zip](https://cdn.origene.com/chromatograms/mk6583_d09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014089

**ORF Size:** 1797 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_014089.4](#)

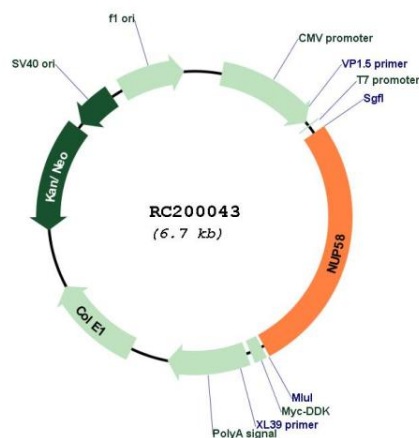
**RefSeq Size:** 4335 bp

**RefSeq ORF:** 1800 bp

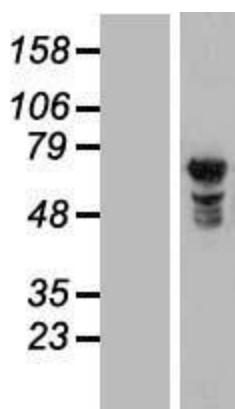
**Locus ID:** 9818  
**UniProt ID:** [Q9BVL2](#)  
**Cytogenetics:** 13q12.13  
**MW:** 60.9 kDa

**Gene Summary:** This gene encodes a member of the nucleoporin family that shares 87% sequence identity with rat nucleoporin p58. The protein is localized to the nuclear rim and is a component of the nuclear pore complex (NPC). All molecules entering or leaving the nucleus either diffuse through or are actively transported by the NPC. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]

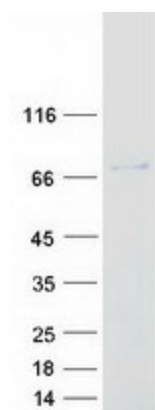
## Product images:



Circular map for RC200043



Western blot validation of overexpression lysate (Cat# [LY415479]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200043 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUP58 protein (Cat# [TP300043]). The protein was produced from HEK293T cells transfected with NUP58 cDNA clone (Cat# RC200043) using MegaTran 2.0 (Cat# [TT210002]).