

## Product datasheet for **RC234347**

### **NUP62 (NM\_001193357) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUP62 (NM_001193357) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUP62
Synonyms:	IBSN; p62; SNDI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234347 representing NM\_001193357.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGCGGGTTAATTTTGGAGGCACTGGGGCCCTACAGCGGGTTACGTTTGGCACTGCAAAGACG
GCAACAACACACCTGCTACAGGGTTTCTTTTCCACCTCTGGCACTGGAGGGTTAATTTGGGGCT
CCCTTCCAACACGCCACAAGTACCCTTCCACCGCCTGTCTCACTTCCACCCAGACTCCGGCCACA
CAGACGACAGGCTTCACTTTTGGAAACAGCGACTCTTGCTTCGGGGGAACTGGATTTTCTTTGGGGATC
GGTGCTCAAAGCTCAACTTGAGCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGG
CTGGGCAGCAGCAACCTCACTAATGCCATATCGAGCACCGTCACTCCAGCCAGGCACAGCACCCACC
GGCTTTGTGTTTGGCCCTCCACCCTCTGTGGCTCCAGCTACCACATCTGGAGGCTTCTCATTCACT
GGTGAAGCACGGCCAAACCTCCGGTTTCAACATTGGCTCAGCAGGGAATTCAGCCAGCCACGGCA
CCTGCCAGTTGCCCTTCACTCCGGCCAGCCAGCAGCCACCACAGCAGGTGCCACAGCCAGCTGCT
CCCACACCCACAGCCACCATCACCAGTACTGGGCCAGCCTCTTTGCGTCAATAGCAACTGCTCAAAC
TCATCTGCCACCACTGGACTCTCCCTCTGTACCCTGTGACCACAGCGGGCGCCCACTGCTGGGACA
CAGGGCTTCAGCTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCACAACAACATCCACCCTGCCACC
GCCACCGCCACCACCAGCAGCAGCAGCACCACCGCTTTGCCTTGAATTTAAAACACTGGCGCCA
GCCGGGATCCCCAGCAATACAGCAGCTGCCGTGACCGCTCCACCTGGCCCTGGCGCAGCTGCAGGGCG
GCTGCCAGCTCCGCCATGACCTACGCGCAGCTGGAGAGCTGATCAACAAATGGAGCCTGGAGCTAGAG
GACCAGGAGCGGCACTTCTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCGCACGCTGATCGAGAAT
GGAGAAAAGATCACAGCCTGCACCGCAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAG
GAGCTCGACTTCACTCTCCAGCAGAAGGAGCTGGAAGACTGCTGAGCCCACTGGAGGAGTTGGTC
AAGGAGCAGAGCGGGACCATCTACCTGCAGCACGCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCT
GAGAACATCGACGCACAGCTCAAGCGCATGGCCAGGATCTAAGGACATCATCGAGCACCTGAACAG
TCCGGGGCCCCCGCCACACAGTGACCCACTGCAGCAGATCTGCAAGATCCTCAATGCGCACATGGAC
TCACTGCAGTGGATCGACCAGAACTCGGCCCTGCTGCAGAGGAAGGTGGAGGAGTGACCAAGGTGTGC
GAGGGCCGGCGCAAGGAGCAGGAGCGCAGCTTCCGGATCACCTTTGAC
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Protein Sequence:**

>Peptide sequence encoded by RC234347  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSGFNFGGTGAPTTGGFTFGTAKTATTTTPATGFSFSTSGTGGFNGGAPFPATSTPSTGLFSLATQTPAT
QTTGFTFGTATLASGGTGFSLGIGASKLNLNNTAATPAMANPSGFGLGSSNLNNAISSTVTSSQGTAPT
GFVFGPSTTSVAPATTSGGFSFTGGSTAQPSGFNIGSAGNSAQPTAPATLPFTPATPAATTAGATQPAA
PTPTATITSTGPSLFASIATAPTSATTGLSLCTPVTTAGAPTAGTQGFSLKAPGAASGTSTTTSTAAT
ATATTTSSSSTTGAFALNLKPLAPAGIPSNATAAVTAPPGPAAAAGAAAASSAMTYAQLESINKWSLELE
DQERHFLQQATQVNAWDRTLIENGEKITSLHREVEKVKLDQKRLDQELDFILSQQKELEDLLSPLEELV
KEQSGTIYLAHQADEEREKTYKLAENIDAQLKRMAQDLKDIIEHLNTSGAPADTSDPLQQICKILNAHMD
SLQWIDQNSALLQRKVEEVTKVCEGRRKEQERSFRITFD
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6281\\_e07.zip](https://cdn.origene.com/chromatograms/mk6281_e07.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001193357

ORF Size: 1566 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 Size: 3200 bp

RefSeq ORF: 1569 bp

Locus ID: 23636

UniProt ID: [P37198](#)

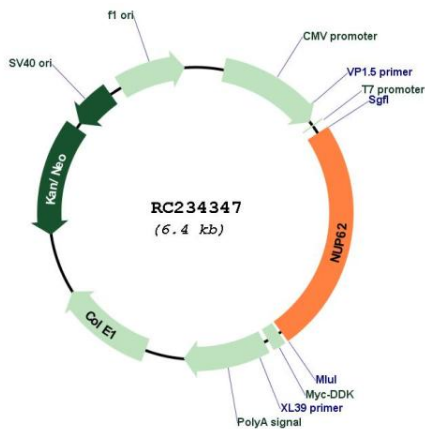
Cytogenetics: 19q13.33

Protein Families: Druggable Genome, Transcription Factors

**MW:** 53.3 kDa

**Gene Summary:** The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins and is localized to the nuclear pore central plug. This protein associates with the importin alpha/beta complex which is involved in the import of proteins containing nuclear localization signals. Multiple transcript variants of this gene encode a single protein isoform. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC234347