

## Product datasheet for **RG204418**

### **NUP62 (NM\_012346) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUP62 (NM_012346) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUP62
Synonyms:	IBSN; p62; SNDI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204418 representing NM\_012346  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCGGGTTAATTTTGGAGGCACTGGGGCCCTACAGCGGGTTCACGTTTGGCACTGCAAAGACGG  
 CAACAACCACACCTGCTACAGGGTTTTCTTCTCCACCTCTGGCACTGGAGGGTTAATTTTGGGGCTCC  
 CTTCCAACAGCCACAAGTACCCCTTCCACCGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAG  
 ACGACAGGCTTCACTTTTGAACAGCGACTCTTCTCGGGGGAAGTGGATTTCTTTGGGGATCGGTG  
 CTTCAAAGCTCAACTTGAGCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGCTTTGGGCTGGG  
 CAGCAGCAACCTCACTAATGCCATATCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGCTTT  
 GTGTTTGGCCCTCCACCACCTCTGTGGCTCCAGTACCACATCTGGAGGCTTCTATTCACTGGTGAA  
 GCACGGCCCAACCTCCGGTTTCAACATTGGCTCAGCAGGAATTCAGCCAGCCACGGCACCTGCCAC  
 GTTGCCCTTCACTCCGGCCAGCCAGCAGCCACCACAGCAGGTGCCACACAGCCAGCTGCTCCACACCC  
 ACAGCCACCATCACCACTACTGGGCCAGCCTCTTTGCGTCAATAGCAACTGCTCCAACCTCATCTGCCA  
 CCACTGGACTCTCCCTCTGTACCCTGTGACCACAGCGGGCGCCCCACTGCTGGGACACAGGGTTCAG  
 CTTAAAGGCACCTGGAGCAGTTCCGGCACCTCCACAACAATCCACCCTGCCACCGCCACCGCCACC  
 ACCACCAGCAGCAGCAGCACCACCGCTTTGCCTTGAATTTAAAACCACTGGCGCCAGCCGGGATCCCCA  
 GCAATACAGCAGCTGCCGTGACCCTCCACCTGGCCCTGGCGCAGCTGCAGGGCGGGTCCAGCTCCGC  
 CATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC  
 TTCTCCAGCAGGCCACCCAGGTCAACGCCTGGGACCCAGCAGTGCAGAGATGGAGAAAAGATACCA  
 GCCTGACCCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCACTC  
 GTCCCAGCAGAAGGAGCTGGAAGACCTGCTGAGCCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACC  
 ATCTACCTGCAGCAGCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAATCGACGCACAGC  
 TCAAGCGCATGGCCAGGATCTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACAC  
 CAGTGACCCACTGCAGCAGATCTGCAAGATCCTCAATGCGCACATGGACTCACTGCAGTGGATCGACCAG  
 AACTCGGCCCTGCTGCAGAGGAAGGTGGAGGAGGTGACCAAGGTGTGCGAGGGCCGGCGAAGGAGCAGG  
 AGCGCAGCTTCCGGATCACCTTTGAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204418 representing NM\_012346  
 Red=Cloning site Green=Tags(s)

MSGFNFVGGTGAFTGGFTFGTAKTATTTTPATGFSFSTSGTGGFNFVGFQPATSTPSTGLFSLATQTPATQ  
 TTGFTFGTATLASGGTGFSLGIGASKLNLSNTAATPAMANPSGFLGSSNLNNAISSTVTSQGTAPTGF  
 VFGPSTTSVAPATTSGGFSFTGGSTAQPSGFNIGSAGNSAQPTAPATLPFTPATPAATTAGATQPAAPT  
 TATITSTGPSLFAFIATAPTSSATTGLSLCTPVTTAGAPTAGTQGFSLKAPGAASGTSTTTSTAATATAT  
 TTSSSSTTGAFALNLKPLAPAGIPSNTAAAVTAPPGPAAAGAAAASSAMTYAQLLESLINKWSLELEDQERH  
 FLQQATQVNAWDRTLIENGEKITSLHREVEKVKLDQKRLDQELDFILSQQKELEDLLSPLEELVKEQSGT  
 IYLVQHADEEREKTYKLAENIDAQLKRMADLKDIIIEHLNTSGAPADTSDPLQQICKILNAHMSLQWIDQ  
 NSALLQRKVVEEVTKVCEGRRKEQERSFRITFD

**TRTRPLE** – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja2718\\_d12.zip](https://cdn.origene.com/chromatograms/ja2718_d12.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_012346

ORF Size: 1566 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.

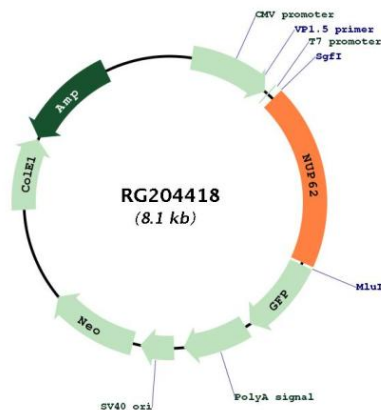
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_012346.3, NP\\_036478.2](#)  
**RefSeq Size:** 3253 bp  
**RefSeq ORF:** 1569 bp  
**Locus ID:** 23636  
**UniProt ID:** [P37198](#)  
**Cytogenetics:** 19q13.33  
**Domains:** Nsp1\_C  
**Protein Families:** Druggable Genome, Transcription Factors  
**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 RG204418