

## Product datasheet for **MG208443**

### **Nup62 (NM\_053074) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nup62 (NM_053074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nup62
Synonyms:	D7Ertd649e; Nupc1; p62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208443 representing NM\_053074  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGTGGATTTAACTTTGGAGGCACCGGGCTCTGCTGGCGGCTTTACATTTGGGACCGCAAAGACTG  
 CGACCACCACACCTGCCACTGGCTTTCTCTCTGCTTCTGGCACCGGACCGGAGGGTTAATTTTGG  
 GACTCCCTCCCAGCCAGCTGCGACCACCCCTTCCACCAGCCTTCTCTCACTACCCACACAGACCCCAACC  
 ACACAGACCCCAGGATCAACTTTGGAACAACCTGCTTCTGGAGGAACAGGCTTCTCCCTGGGGATCA  
 GCACCCCAAAGCTCAGCCTGAGTAACGCAGCTGCCACACCAGCCACGGCCAACTGGCAGCTTTGGGCT  
 TGGCAGCAGCACCTACCAATGCCATCTCAAGTGGCAGCACCTCAACCAGGGGACAGCCCCACTGGC  
 TTTGTCTTTGGCTCTTACCACCTGCTCCGTCACCCGGCTCCACTGGGTTCTATTACCAGTGGCA  
 GTGCATCCAGCCTGGAGCCTCTGGCTTACGCTTGGCTCTGTGGGTAGCTCTGCCAGCCACAGCACT  
 GTCTGGCTCTCCCTTACACCAGCCACTCTGGTACTACTACAGCAGGAGCTACACAGCCAGCTGCTGCT  
 GCACCCACTGCTGCCACCACAGTGCAGGGTCTACACTCTTTGCTTCCATAGCTGCTGCTCTGCCTCAT  
 CCAGTGCTACAGGGCTCTCCCTCCCAGCTCCGGTGACAACCTGCAGCAACTCCTAGTGCTGGGACTTTGGG  
 CTTCAGCCTCAAGGCCCTGGAGCAGCTCCTGGTGCCTCCACCACCAGCACCACCCTACCCTACCACC  
 ACTACTACCCTGCTGCTGCCGCTGCCGCTCTACCACAACCTGGCTTTGCCTTAAGTCTGAAACCCC  
 TGGTGTCACTGGCCCCAGCAGTGTAGCAGCTACTGCTCTGCCTGCCTCCAGCACAGCAGCTGGGACTGC  
 CACAGGTCCAGCGATGACCTATGCACAGCTGAAAAGCTTGATCAACAAGTGGAGTCTGGAGCTGGAAGAT  
 CAGGAGCGGCACCTCTCTGCAGCAGGCCACACAGGTCAATGCCTGGGACCGCACACTGATTGAGAAATGGG  
 AGAAGATCACAGCCTGCACCGAGAGGTGAAAAGGTGAAGCTGGATCAGAAGCGACTGGACCCAGGAGT  
 GGACTTTATCCTGTGCGCAGCAGAAGGAGCTGGAAGACCTCTGAGCCATTGGAGGAGTCAAGTGAAGGAG  
 CAAAGTGGCACCATATACCTTACGACAGCTGATGAGGAGCGTGAGAAGACCTACAAGCTGGCTGAGAACA  
 TTGATGCTCAGCTCAAGCGCATGGCACAGGACCTCAAGGATATCATCGAGCACCTGAACATGGCTGGTGG  
 CCCTGCAGACACCAGTGACCCATTGCAACAGATCTGCAAGATCCTCAATGCACACATGGACTCTCTTCAG  
 TGGGTGGACCAGAGCTCTGCCCTGCTGCAGAGGAGGGTGGAGGAGGCTAGCCGTGTATGTGAGGGCCGGC  
 GCAAGGAACAGGAGCGCAGTCTGCGCATTGCCTTTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208443 representing NM\_053074  
 Red=Cloning site Green=Tags(s)

MSGFNFVGGTAPAGGFTFGTAKTATTTTPATGFSFSASGTGTGGFNFVGTGPSQPAATTPSTSLFSLTTQTPT  
 TQTPGFNFVGGTTPASGGTGFSLGISTPKLSLNAATPATANTGSFGLGSSTLTNAISSGSTSNQGTAPTG  
 FVFGSSTTSAPSTGSTGFSFTSGSASQPGASGFLGSLVSSAQPTALSGSPFTPATLVTTTAGATQPAAA  
 APTAATTSAGSTLFASIAAAPASSSATGLSLPAPVTAAATPSAGTLGFLKAPGAAPGASTSTTTTTTTT  
 TTTTAAAAAATTTTGFALSLKPLVSAGPSSVAATALPASSTAAGTATGPAMTYAQLESINKWSLELED  
 QERHFLQATQVNAWDRTLIENGEKITS LHREVEKVKLDQKRLDQELDFILSQQKELEDLLSPLEESVKE  
 QSGTIYLVQHADEEREKTYKLAENIDAQLKRMAQDLKDIIEHLNMAGGPADTSDPLQIQICKILNAHMSLQ  
 WVDQSSALLQRRVEEASRVCEGRRKEQERSLRIAFD

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_053074

ORF Size: 1578 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: [NM\\_053074.2](#), [NP\\_444304.1](#)

RefSeq Size: 2397 bp

RefSeq ORF: 1581 bp

Locus ID: 18226

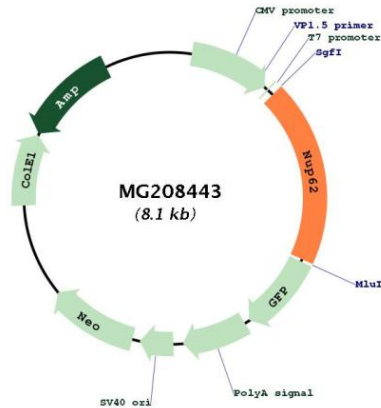
UniProt ID: [Q63850](#)

Cytogenetics: 7 28.93 cM

**Gene Summary:**

Essential component of the nuclear pore complex. The N-terminal is probably involved in nucleocytoplasmic transport. The C-terminal is involved in protein-protein interaction probably via coiled-coil formation, promotes its association with centrosomes and may function in anchorage of p62 to the pore complex. Plays a role in mitotic cell cycle progression by regulating centrosome segregation, centriole maturation and spindle orientation. It might be involved in protein recruitment to the centrosome after nuclear breakdown. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG208443