

Product datasheet for **MR208443**

Nup62 (NM_053074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nup62 (NM_053074) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nup62
Synonyms:	D7Ertd649e; Nupc1; p62
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR208443 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTGGATTTAACTTTGGAGGCACCGGGCTCTGCTGGCGGCTTTACATTTGGGACCGCAAAGACTG
 CGACCACCACACCTGCCACTGGCTTTTCTTCTGCTTCTGGCACCGGCACCGGAGGGTTAATTTTGG
 GACTCCCTCCCAGCCAGCTGCGACCACCCCTTCCACCAGCCTTCTCTCACTCACACACAGACCCCAACC
 ACACAGACCCCAGGATTCAACTTTGGAACAACACCTGCTTCTGGAGGAACAGGCTTCTCCCTGGGGATCA
 GCACCCCAAAGCTCAGCCTGAGTAACGCAGCTGCCACACCAGCCACGGCCAACACTGGCAGCTTTGGGCT
 TGGCAGCAGCACCTACCAATGCCATCTCAAGTGGCAGCACCTCAACCAGGGGACAGCCCCACTGGC
 TTTGTCTTTGGCTCTTACCACCTCTGCTCCGTCACCCGGCTCCACTGGGTTCTATTACCAGTGGCA
 GTGCATCCAGCCTGGAGCCTCTGGCTTACGCTTGGCTCTGTGGTAGCTCTGCCAGCCACAGCACT
 GTCTGGCTCTCCCTTACACCAGCCACTCTGGTACTACTACAGCAGGAGCTACACAGCCAGCTGCTGCT
 GCACCCACTGCTGCCACCACAGTGCAGGGTCTACACTCTTTGCTCCATAGCTGCTGCTCCTGCCTCAT
 CCAGTGCTACAGGGCTCTCCCTCCCAGCTCCGGTGACAACCTGCAGCAACTCCTAGTGCTGGGACTTTGGG
 CTTCAGCCTCAAGGCCCTGGAGCAGCTCCTGGTGCCTCCACCACCAGCACCACCCTACCCTACCACC
 ACTACTACCCTGCTGCTGCCGCTGCCGCTCTACCACAACACTGGCTTTGCCTAAGTCTGAAACCC
 TGGTGTACAGTGGCCCCAGCAGTGTAGCAGCTACTGCTCTGCCTGCCTCCAGCACAGCAGCTGGGACTGC
 CACAGGTCCAGCGATGACCTATGCACAGCTGAAAAGCTTGATCAACAAGTGGAGTCTGGAGCTGGAAGAT
 CAGGAGCGGCACTTCTGCAGCAGGCCACACAGGTCAATGCCTGGGACCCGACACTGATTGAGAAATGGGG
 AGAAGATCACAGCCTGCACCGAGAGGTGAAAAGGTGAAGCTGGATCAGAAGCGACTGGACAGGAGCT
 GGACTTTTCTGTCGACGAGAAGGAGCTGGAAGACCTCTGAGCCATTGGAGGAGTCAAGTGAAGGAG
 CAAAGTGGCACCATATACCTTACGACAGCTGATGAGGAGCGTGAGAAGACCTACAAGCTGGCTGAGAACA
 TTGATGCTCAGCTCAAGCGCATGGCACAGGACCTCAAGGATATCATCGAGCACCTGAACATGGCTGGTGG
 CCCTGCAGACACCAGTGACCCATTGCAACAGATCTGCAAGATCCTCAATGCACACATGGACTCTCTTCAG
 TGGGTGGACAGAGCTCTGCCCTGCTGCAGAGGAGGGTGGAGGAGCTAGCCGTGTATGTGAGGGCCGGC
 GCAAGGAACAGGAGCGCAGTCTGCGATTGCCTTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208443 protein sequence
 Red=Cloning site Green=Tags(s)

MSGFNFGGTGAPAGGFTFGTAKTATTTTPATGFSFSASGTGTGGFNFGTPSQPAATTPSTSLFSLTTQTPT
 TQTPGFNFGTTPASGGTGFSLGISTPKLSLNAATPATANTGSFGLGSSTLTNAISSGSTSNQGTAPTG
 FVFGSSTTSAPSTGSTGFSFTSGSASQPGASGFSLSVGSQAQPTALSGSPFTPATLVTTTAGATQPAAA
 APTAATTSAGSTLFAISIAAPASSATGLSLPAPVTTAATPSAGTLGFSKAPGAAPGASTSTTTTTTTT
 TTTTAAAAAASTTTTGFALSLKPLVYAGPSSVAATALPASSTAAGTATGPAMTYAQLESINKWSLELED
 QERHFLQQATQVNAWDRTLIENGEKITSLHREVEKVKLDQKRLDQELDFILSQQKELEDLLSPLEESVKE
 QSGTIYLQHADEEREKTYKLAENIDAQLKRMAQDLKDIIEHLNMAGGPADTSDPLQQICKILNAHMSLQ
 WVDQSSALLQRRVEEASRVCEGRRKEQERSLRIAFD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

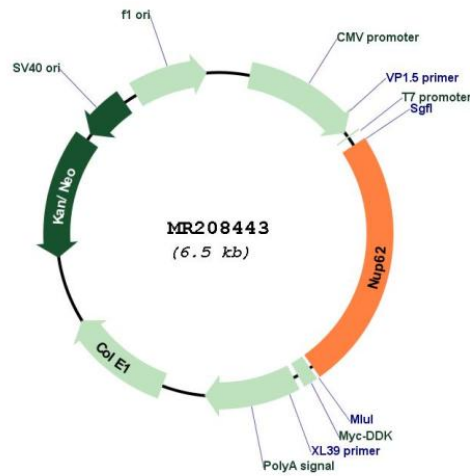
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_053074
ORF Size:	1581 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:	<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_053074.2 , NP_444304.1
RefSeq Size:	2397 bp
RefSeq ORF:	1581 bp
Locus ID:	18226
UniProt ID:	Q63850
Cytogenetics:	7 28.93 cM
MW:	53.3 kDa
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]