

## Product datasheet for **SC114211**

### **NUP62 (NM\_016553) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUP62 (NM_016553) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP62
Synonyms:	IBSN; p62; SNDI
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_016553, the custom clone sequence may differ by one or more nucleotides

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ATGAGCGGGTTAATTTGGAGGCACTGGGCCCCCTACAGGCGGGTTCACGTTTGGCACTGCAAAGACGG
CAACAACCACACCTGCTACAGGGTTTTCTTTCTCCACCTCTGGCACTGGAGGGTTAATTTTGGGGCTCC
CTTCCAACCAGCCACAAGTACCCTTCCACCGCCTGTTCTCACTTGCCACCCAGACTCCGGCCACACAG
ACGACAGGCTTCACTTTTGGAAACAGCGACTCTTGCTTCGGGGGAACTGGATTTTCTTTGGGGATCGGTG
TTCAAAGCTCAACTTGAGCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTTTGGGCTGGG
CAGCAGCAACCTCACTAATGCCATATCGAGCACCGTCACCTCCAGCCAGGGCACAGCACCCACCGCTTT
GTGTTTGGCCCCCTCACCACCTCTGTGGCTCCAGCTACCACATCTGGAGGCTTCTCATTCACTGGTGGAA
GCACGGCCCAACCCTCCGGTTTCAACATTGGCTCAGCAGGAATTAGCCACAGCCACGGCACCTGCCAC
GTTGCCCTTCACTCCGGCCACGCCAGCAGCCACACAGCAGGTGCCACACAGCCAGCTGCTCCACACCC
ACAGCCACCATCACCAGCACTGGGCCAGCCTCTTTGCGTCAATAGCAACTGCTCAACCTCATCTGCCA
CCACTGGACTCTCCCTCTGTACCCTGTGACCACAGCGGGCGCCCCACTGCTGGGACACAGGGCTTCAG
CTTAAAGGCACCTGGAGCAGCTTCCGGCACCTCCAACAACATCCACCGCTGCCACCGCCACCGCCACC
ACCACCAGCAGCAGCAGCACCACCGGCTTTGCCTTGAATTTAAAACCACTGGCGCCAGCCGGATCCCCA
GCAATACAGCAGCTGCCGTGACCCTCCACCTGGCCCTGGCGCAGCTGCAGGGGGGGCTGCCAGCTCCGC
CATGACCTACGCGCAGCTGGAGAGCCTGATCAACAAATGGAGCCTGGAGCTAGAGGACCAGGAGCGGCAC
TTCCTCCAGCAGGCCACCCAGGTCAACGCTGGGACCGCACGCTGATCGAGAATGGAGAAAAGATCACCA
GCCTGCACCGCGAGGTGGAGAAGGTGAAGCTGGACCAGAAGAGGCTGGACCAGGAGCTCGACTTCATCCT
ATCTACCAGCAGAAGGAGCTGGAAGACCTGCTGAGCCACTGGAGGAGTTGGTCAAGGAGCAGAGCGGGACC
ATCTACTGCAGCAGCGGATGAGGAGCGTGAGAAAACCTACAAGCTGGCTGAGAACATCGATGCACAGC
TCAAGCGCATGGCCAGGATCTCAAGGACATCATCGAGCACCTGAACACGTCCGGGGCCCCCGCCGACAC
CAGTGACCCACTGCAGCAGATCTGCAAGATCCTCAATGCCACATGGACTCACTGCAAGTGGATCGACCAG
AACTCGGCCCTGCTGCAGAGGAAGGTGGAGGAGGTGACCAAGGTGTGCGAGGGCCGGCGAAGGAGCAGG
AGCGCAGCTTCCGGATCACCTTTGACTGA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_016553 unedited
ACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGTTACTCACTCCATGGCTGCAG
CAAGGAGAGGGCGCGCGCCCTCGGCTGAAGAAAGAGGTGGGAGCGGAGAGCGCAGGCG
TGAAATCTTCCAAGGCTGCAGACACCGACGGATTTGCTTTGGGAGCCAGAGTAGCTGCC
GCCACCAGAGTCCGGAGCCATGAGCGGGTTAATTTTGGAGGCACTGGGGCCCCCTACAGG
CGGGTTACGTTTGGCACTGCAAAGACGGCAACAACCACACCTGCTACAGGGTTTTCTTT
CTCCACCTCTGGCACTGGAGGGTTAATTTTGGGGCTCCCTTCCAACCAGCCACAAGTAC
CCCTTCCACCGCCTGTTCTCACTTGTCAACCAGACTCCGGCCACACAGACGACAGGCTT
CACTTTTGGAAACAGCGACTCTTGCTTCGGGGGAACTGGATTTTCTTTGGGGATCGGTGC
TTCAAAGCTCAACTTGAGCAACACAGCTGCCACCCAGCCATGGCAAACCCAGCGGCTT
TGGGCTGGGCAGCAGCAACCTCACTAATGCCATATCGAGCACCGTCACCTCCAGCCAGGG
CACAGCACCCACCGGCTNTGTGTTTGGCCCCCTCACCACCTCTGTGGCTCCAGTACCAC
ATCTGGAGGCTTCTCATTCACTGGTGAAGCACGGCCCAACCCTNCGGTTTCAACATTGG
CTCAGCAGGGAATTCAGCCAGCCACGGCACCTGCCACGTTGCCCTTCACTTCGNCAC
GCCAGCAGCCACCACAGCAGGNTGCCACACAGNCAGCTGCNTCCACCCACAGCCACCA
TCACCAGCACTGGGCCAGNCTCTTTGCGTNATAGCAACTGGCTCAACCTCATCTGCCAC
ACTGGACTCTCCTCTGTACCCTGTGACACAGNGNCGCCCCCTGCTGGGACCAGGNCTTC
ACTTAAGGCACTGGAGAGTTNCGGACTNCACATACTNCACGGTTGCACGCACCGCACACA
CAGAGN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_016553 unedited CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGAGACAGAGTCTCTGTTGC CTAAGCTGGAGTGCAGTGGTGTGATCTTGGTTCAGTCAACACCTCTGGGTTCAAGTGA TTCTCCTGCCTCAGCCTCCCGAGTAGCTGAGATTGAGATCACAGGCGTCCACCACACCTG ACTAATTTTTGTATTTTGTAGTAGAGACGGGTTTACCATGTTGGCCAGGCTGGTCTCGA ACTCCTGACCTCAAGTCATCTGCCCGCTTGGCCACCCAAAGTGTGAGATTACAGGGGT GAGCCACTGCGCCCTGACTTGGAGGGTCTTTACATTTGGGATTTTTTTCATGACACCTAT GACTATGCTTTGGAGAGAGTGGCTGCCCCACGACCCTGGCTGGGACCAAGACCATTAGC ACTTTTCCATCACAGGCTGAGCCAGGATGAGGTGGTGGTGCAGTAGGCGAAAAGGGG CCAAAGATACTCAAATGAAAGCCACAGAAGCCACACCCATGAGGCTGCTGCCTGGGCAGA AGGCCCAAATACCCTCTAAATGGAAAAACCCAAAGCACACAGTATGTCAGGGGC AGTCATGTGAAAGAAAGAAACAAACACACCAGTTTCTTGGCCCAATCCCCAACTACCGA CCATACGGGGCCTTCCCTATGACCTTCTAGGGACCTTCGGGGCCAGGGCTGTGTGT TCTTACCAAAGTGATTCGCGAGCTGGGTTTTTGTCTTGGGCCGCTTTGAACCTGG CCCCTCTTCCCCTTCTGGAATAGGCCCTTCTTGGTTCATCCCTGCCGTCGTCCTTT CCCCTTTGGGCCTTGCCACCTCGCGCTTGGGTCCATGTGCGCTGGGGCCGCCCGCCCCG GTTCCGGGCTTGTGATGCTTGGATACCGGGACCGCCCTGACTCGCGCTTCAAGCTCNC CCTTGGGGACGCTCGCCTAATCCGGCCTGCGCGATGGGCT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_016553
<b>Insert Size:</b>	2620 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_016553.3</a></u> , <u><a href="#">NP_057637.2</a></u>
<b>RefSeq Size:</b>	3399 bp
<b>RefSeq ORF:</b>	1569 bp
<b>Locus ID:</b>	23636
<b>UniProt ID:</b>	<u><a href="#">P37198</a></u>
<b>Cytogenetics:</b>	19q13.33
<b>Domains:</b>	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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. All variants encode the same protein.