

Product datasheet for **SC321941**

NOB1 (NM_014062) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOB1 (NM_014062) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOB1
Synonyms:	ART-4; MST158; MSTP158; NOB1P; PSMD8BP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014062.1
 CATGGCTCCAGTGGAGCACGTTGTGGCGGATGCTGGGGCTTTCCTGCGGCATGCGGCTCT
 GCAGGACATCGGGAAGAACATTTACACCATCCGGGAGGTGGTCACTGAGATTCGGGACAA
 GGCCACACGCAGGCGGCTCGCTGTCTGCCCTACGAGCTGCGGTTCAAGGAGCCCTTACC
 GGAATACGTGCGGCTGGTACTGAGTTTTCAAAGAAAACAGGAGACTACCCAGCCTCTC
 TGCCACGGACATCCAAGTGTTCGACTCACATAACCAGTTGGAAGCAGAGTTTGTGGGGT
 GTCTCACCTAAAACAAGAACCACAGAAGGTTAAGGTGAGCTCATCGATTACAGACCCAGA
 AACACCTCTGCACATTTCTGGTTTCCATCTGCCCTACAAGCCTAAACCCCAAGAAAAC
 AGAAAAAGGACACTCAGCTTGTGAGCCTGAGAACCTGGAATTTAGTTCCTTCATGTTCTG
 GAGAAAACCTTTGCCAACATCGATCATGAACTGCAGGAGCTGCTGATTGACAGAGGTGA
 GGACGTTCCAAGTGAGGAGGAGGAGGAGGAAGAAAACGGGTTTGAAGACAGAAAAGATGA
 CAGCGATGACGACGGGGTGGCTGGATAACCCCAAGTAAACATCAAGCAGATCCAGCAGGA
 GCTGGAGCAGTGTGACGTCCCCGAGGACGTGCGGGTTGGCTGCCTGACCACAGACTTCGC
 CATGCAGAATGTTCTGCTGCAGATGGGGTGCACGTGCTGGCGGTGAACGGCATGCTGAT
 TCGTGAGGCCCGAGCTACATCTTGCCTGCCATGGCTGTTTCAAGACAACGTCTGACAT
 GAGCCGAGTGTCTGCTCACACTGTGGGAACAAGACCCTGAAGAAAGTGTCCGTGACCGT
 CAGCGACGACGGCACCTGCACATGCACTTCTCCCGCAACCCCAAGGTGCTGAACCCCGG
 CGGCTCCGGTACTCGCTTCCCACTCCCAAAGGGGGCAAATACGCCATCAACCCCATCT
 CACCGAGGATCAGCGCTTCCCTCAGCTGCGACTCTCCCAAAGGCCAGGCAGAAAACAA
 CGTGTTCGCCCCGACTACATCGCCGGGTGTCACCCCTTGTGCGAGAATGACATCTCCAG
 CCGCTCAGCTACCCTGCAGGTCCGGGACAGCACCTTGGGAGCTGGGCGGAGACGCTTAAA
 TCCCAACGCTTCCAGAAAGAAGTTTGTGAAGAAAAGGTGAAGAGCGAGTCCCGCAGGCA
 AATTGGATGGGCGTCTGGCCCGCTGGAGTTCGGGTGACCCATTTCCCGCAGGCTGTCGT
 CTCAGGACCACCCGATGGAAATAACAGGCGGGCTTACGGTGGCGCTCTGTCCGCCAT
 GCCCGCTGGGTCTGCAGGAACTGGAAGTGTCCATGGCCTGTGAGCACCGGAGCGCCTG
 GCTGCCTGCCAAGGAAGTGAATTGCATAAAAACAGAAAGAACAACGCCCTGGAGCCAAT
 CTTCAAGAAAGGAATTTCCAAAGGATAATATTTTTCTAATAAATGCGGCTGCAACCTCT
 GTGCATTAATTAATAGGCCAAATTTTTGCTGCTTAGGTATCTCAAGGCTGATACTTG
 AGCTGTGTGCCAGAGATCATGCATTTAGATTTATTTTTGCCAGAAAATACAAGGTTA
 TAATAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014062

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_014062.1](#), [NP_054781.1](#)

RefSeq Size: 1733 bp

RefSeq ORF: 1239 bp

Locus ID: 28987

UniProt ID: [Q9ULX3](#)

Cytogenetics: 16q22.1

Gene Summary: In yeast, over 200 protein and RNA cofactors are required for ribosome assembly, and these are generally conserved in eukaryotes. These factors orchestrate modification and cleavage of the initial 35S precursor rRNA transcript into the mature 18S, 5.8S, and 25S rRNAs, folding of the rRNA, and binding of ribosomal proteins and 5S RNA. Nob1 is involved in pre-rRNA processing. In a late cytoplasmic processing step, Nob1 cleaves a 20S rRNA intermediate at cleavage site D to produce the mature 18S rRNA (Lamanna and Karbstein, 2009 [PubMed 19706509]).[supplied by OMIM, Nov 2010]

Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.