

Product datasheet for **SC306261**

NUF2 (NM_145697) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	NUF2
Synonyms:	CDCA1; CT106; NUF2R
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_145697 edited
 GATTTTGGACTTTGCTTGTAGCTGCTCCCGAACTCGCCGTCTTCTGTGCGGCGCCGGC
 ACTGTAGATTAACAGGAACTTCCAAGATGGAACCTTTGTCTTTCCCGAGATATAATGTA
 GCTGAGATTGTGATTCATATTGCAATAAGATCTTAACAGGAGCTGATGGTAAAAACCTC
 ACCAAGAATGATCTTTATCCAATCCAAGCCTGAAGTCTTGACATGATCTACATGAGA
 GCCTTACAAATAGTATATGGAATTCGACTGGAACATTTTACATGATGCCAGTGAACCT
 GAAGTCATGTATCCACATTTAATGGAAGGCTTCTTACCATTAGCAATTTAGTTACTCAT
 CTGGACTCATTTTTGCCTATCTGCCGGTGAATGACTTTGAGACTGCTGATATTCTATGT
 CCAAAAAGCAAAACGGACAAGTCGGTTTTTAAGTGGCATTATCAACTTTATTCACTTCAGA
 GAAGCATGCCGTGAACGTATATGGAATTTCTTTGGCAATATAAATCCTCTGCGGACAAA
 ATGCAACAGTTAAACGCCGCACACAGGAGGCATTAATGAACTGGAGAGACTTGATTCT
 GTTCCAGTTGAAGAGCAAGAAGAGTTCAAGCAGCTTTCAGATGGAATTCAGGAGCTACAA
 CAATCACTAAATCAGGATTTTCATCAAAAAACGATAGTGCTGCAAGAGGAAATTCCTAA
 AAGAAGTCAAATATTTAGAGAAAACCAAGCGTTTGAATGAACTAAATGTGCGGTGGTT
 TCTTTGAAAGAAATACAAGAGAGTTTGAACAACAAATTTGGGATTCTCCAGAGAAAGTTA
 AAGAATTATAAAGAAAAATGAAAGATACGGTCCAGAAGCTTAAAAATGCCAGACAAGAA
 GTGGTGGAGAAATATGAAATCTATGGAGACTCAGTTGACTGCCTGCCTCATGTCAAGTTG
 GAAGTGCAGTTATATCAAAAGAAAAACAGGACCTTTCAGATAATAGGGAAAAATTAGCC
 AGTATCTTAAAGGAGAGCCTGAACTTGGAGGACCAATTTGAGAGTATGAGTCAGAACTG
 AAGAAATTGAAGACTGAAGAAAATTCGTTCAAAAGACTGATGATTGTGAAGAAGGAAAAA
 CTTGCCACAGCACAAATCAAAATAAATAAGAAGCATGAAGATGTTAAGCAATACAAACGC
 ACAGTAATTGAGGATTGCAATAAAGTTCAAGAAAAAGAGGTGCTGTCTATGAACGAGTA
 ACCACAATTAATCAAGAAATCAAAAAATTAACCTTGAATTCACAACTAAAAAGATGCT
 GCTGAAAGGGAGAACTGAAGTCCCAGGAAATATTTCTAACTTGAAGTCTGCTTTGGAG
 AAATACCACGACGGTATTGAAAAGGCAGCAGAGGACTCCTATGCTAAGATAGATGAGAAG
 ACAGCTGAACTGAAGAGGAAGATGTTCAAAATGTCAACCTGATTAACAAATACATGTC
 TTTTGTAAATGGCTTGCCATCTTTAATTTTCTATTTAGAAAGAAAAGTTGAAGCGAAT
 GGAAGTATCAGAAGTACCAAAATAATGTTGGCTTCATCAGTTTTTATACACTCTCATAAGT
 AGTTAATAAGATGAATTAATGTAGGCTTTTATTAATTTATAATAAAAATACTTGTGCA
 GCTATTCATGTCTCTACTCTGCCCTTGTGTAATAGTTTGAAGTAAACAAAAGTGTGCA
 ACCTTTGAAATATATATATTTTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_145697

Insert Size:

1800 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 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:	Th eORF of this clone has been fully sequenced and found to be a perfect match to NM_145697.1.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_145697.1</u> , <u>NP_663735.1</u>
RefSeq Size:	2003 bp
RefSeq ORF:	1395 bp
Locus ID:	83540
UniProt ID:	<u>Q9BZD4</u>
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a protein that is highly similar to yeast Nuf2, a component of a conserved protein complex associated with the centromere. Yeast Nuf2 disappears from the centromere during meiotic prophase when centromeres lose their connection to the spindle pole body, and plays a regulatory role in chromosome segregation. The encoded protein is found to be associated with centromeres of mitotic HeLa cells, which suggests that this protein is a functional homolog of yeast Nuf2. Alternatively spliced transcript variants that encode the same protein have been described. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.