

## Product datasheet for **RC234630**

### **NYREN18 (NUB1) (NM\_001243351) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NYREN18 (NUB1) (NM_001243351) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NYREN18
Synonyms:	BS4; NUB1L; NYREN18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC234630 representing NM\_001243351  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAAAACAAACGGCGGCCGCTGCCGATCCGGGCACTCTGCTGGTCGCGCGGGAGTGGCGTGGCGCAG  
GGATGGCACAAAAGAAATATCTTCAAGCAAAATTGACCCAGTTTTTAAGGGAAGACAGGATTCAACTTTG  
GAAACCTCCATATACAGATGAAAATAAAAAAGTTGGTTTTGGCATTAAAGGACCTTGCTAAGCAGTACTCT  
GACAGACTAGAATGCTGTGAAAATGAAGTAGAAAAGGTAATAGAAGAAATACGTTGCAAGGCAATTGAGC  
GTGGAACAGGAAATGACAATTATAGAACAACGGGAATTGCTACAATCGAGGTGTTTTTACCACCAAGACT  
AAAAAAGATAGGAAAACTTGTGGAGACCCGATTGCACATCACTGGCAGAGAAGTGGGTCCAAAATA  
GCTGAAACCTTTGGACTTCAAGAAAATTATATCAAAAATTGTCATAAATAAGAAGCAACTACAAGTGGGA  
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GGACGCGAGGAAAACTCCAGTTAGAGGAAGAGGAGCAAAATGAGGCCAACTCAAAGAAAAACAATT  
CAGAGGACCAAGAGAGGACTAGAAAATACTGGCAAAGAGAGCAGCAGAGACAGTGGTGGATCCAGAAATGA  
CACCGTACTTAGACATAGCTAACAGACAGGCAGATCAATCAGAATCCCCCATCAGAAAGAAAAGCCCT  
TATGTTAGCTATGGGATATCATGAGAAGGGCAGAGCTTTCCTGAAAAGAAAAGAATATGGAATAGCCTTG  
CCATGTCTGTTGGACGCTGACAAATATTTCTGTGAGTGTGTCAGAGAGCTGCTGGACACAGTGGATAACT  
ACGCCGTCCTCCAGCTGGATATAGTGTGGTGTACTTCCGCTGGAACAGCTGGAATGCCTTGATGATGC  
AGAAAAAAATTAACCTTGGCCAGAAATGCTTTAAAAATTGTTACGGAGAAAATCATCAGAGACTGGTC  
CACATAAAAGGAAATGTGGGAAAGAGAAGGTACTGTTTCTAAGACTCTACTTCAAGGGATCCGAA  
ACTATCACAGTGGAAATGATGTAGAGGCTTATGAGTATCTTAACAAGGCACGTCACTCTTTAAAGAGCT  
ATATATTGATCCATCAAAGTGGACAATTTGTTGCAAGTTGGGGTTTACTGCCAGGAAGCCCGCTTGGC  
CTGAGGGCGTGTGATGGGAACGTGGATCATGCGGCCACTCATATTACCAACCGCAGAGAGGAACTGGCCC  
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CTACTCCACGCACGCGGCCAGCAGGACTCCACGCAGCCAGCGGAACTTGGATGAGGCCCTGAAGATT  
CTGCTCAGCAATCCTCAGATGTGGTGGTTAAATGATTCCAATCCTGAAACCGACAACCGTCAAGAAAATC  
CTTCCCAGGAAAACATTGACCGATTGGTGTACATGGGTTTTGATGCACTCGTGGCCGAAGCTGCGCTGAG  
AGTGTTCAGAGGCAACGTCCAGCTGGCCGCCAGACCCTTGCTCACAACGGAGGAAGCCTGCCTCCCGAG  
CTGCCGCTGTCGCCAGAAGACTTTTGTCCCGCCAGCCAGTCCCTTCTGACTCCGCAGGAACCTCTA  
GTGCTCAACAGACGAAGACATGGAGACAGAGGCCGTCATGAGATACTGGAAGACATTCCAGAGCATGA  
GGAAGACTATCTTGACTCAACTCTGGAAGATGAAGAAATTATTATTGCAGAGTACCTATCTATGTAGAA  
AATAGGAAGTCAGCAACAAAGAAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234630 representing NM\_001243351  
Red=Cloning site Green=Tags(s)

MKTNGGRCRIRALCWSRREWRGAGMAQKKYLQAKLTQFLREDRIQLWKPPYTDENKKVGLALKDLAKQYS  
 DRLECCENEVEKVEEIRCKAIERGTGNDNYRTTGIATIEVFLPPRLKKDRKNLLETRLHITGRELRSKI  
 AETFGLQENYIKIVINKKQLQLGKTL EEQVAHNVKAMVLELKQSEEDARKNFQLEEEEEQNEAKLKEKQI  
 QRTKRGLEILAKRAAETVVDPEMTPYLDIANQTGRSIRIPPSERKALMLAMGYHEKGRAFLKRKEYGIAL  
 PCLLDADKYFCECCRELLDVTVDNYAVLQLDIVWCYFRLEQLECLDDAEKLNLAQKCFKNCYGENHQRLV  
 HIKGNCGKEKVLFLRLYLLQGIRNYHSGNDVEAYEYLNKARQLFKELYIDPSKVDNLLQLGFTAQEARLG  
 LRACDGNVDHAATHITNRREELAQIRKEEKEKKRRRLENIRFLKMGYSTHAAQQVLHAASGNLDEALKI  
 LLSNPQMWWLNDNSNPETDNRQESPSQENIDRLVYMGFDALVAEALRVFRGNVQLAAQTLAHNGGSLPPE  
 LPLSPEDSLSPATSPSDSAGTSSASTDEDMETEAVNEILEDIPEHEEDYLDSTLEDEEIIIAEYLSYVE  
 NRKSATKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001243351

**ORF Size:** 1917 bp

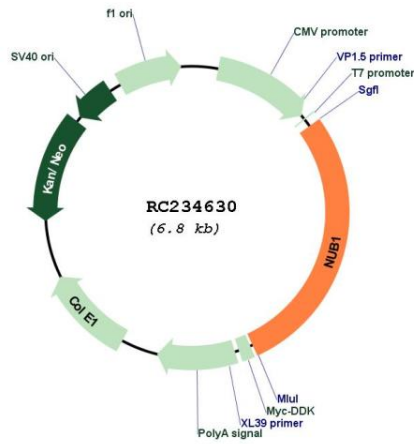
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>NM_001243351.1, NP_001230280.1</u>
<b>RefSeq Size:</b>	3187 bp
<b>RefSeq ORF:</b>	1848 bp
<b>Locus ID:</b>	51667
<b>UniProt ID:</b>	<u>Q9Y5A7</u>
<b>Cytogenetics:</b>	7q36.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	73.8 kDa
<b>Gene Summary:</b>	<p>This gene encodes a protein that functions as a negative regulator of NEDD8, a ubiquitin-like protein that conjugates with cullin family members in order to regulate vital biological events. The protein encoded by this gene regulates the NEDD8 conjugation system post-transcriptionally by recruiting NEDD8 and its conjugates to the proteasome for degradation. This protein interacts with the product of the AIPL1 gene, which is associated with Leber congenital amaurosis, an inherited retinopathy, and mutations in that gene can abolish interaction with this protein, which may contribute to the pathogenesis. This protein is also known to accumulate in Lewy bodies in Parkinson's disease and dementia with Lewy bodies, and in glial cytoplasmic inclusions in multiple system atrophy, with this abnormal accumulation being specific to alpha-synucleinopathy lesions. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2011]</p>

Product images:



Circular map for RC234630