

Product datasheet for **RG208098**

NYREN18 (NUB1) (NM_016118) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NYREN18 (NUB1) (NM_016118) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NYREN18
Synonyms:	BS4; NUB1L; NYREN18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208098 representing NM_016118
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCACAAAAGAAATATCTTCAAGCAAATTGACCCAGTTTTTAAAGGAAGACAGGATTCAACTTTGGA
 AACCTCCATATACAGATGAAAATAAAAAAGTTGGTTGGCATTAAAGGACCTTGCTAAGCAGTACTCTGA
 CAGACTAGAATGCTGTGAAAATGAAGTAGAAAAGTAATAGAAGAAATACGTTGCAAGGCAATTGAGCGT
 GGAACAGGAAATGACAATTATAGAACAACGGGAATTGCTACAATCGAGGTGTTTTTACCACCAAGACTAA
 AAAAAAGTAGGAAAACTTGTGGAGACCCGATTGCACATCACTGGCAGAGAACTGAGGTCCAAAAATAGC
 TGAACCTTTGGACTTCAAGAAAATTATCAAAATTGTCATAAATAAGAAGCAACTACAAGTGGGAAA
 ACCCTTGAAGAACAAGCGTGGCTCACAATGTGAAAGCGATGGTCTGAACTAAAACAATCTGAAGAGG
 ACGCGAGGAAAACTTCCAGTTAGAGGAAGAGGAGCAAAATGAGGCCAACTCAAAGAAAAACAATTCAG
 GAGGACCAAGAGAGGACTAGAAATACTGGCAAAGAGAGCAGCAGAGACAGTGGTGGATCCAGAAATGACA
 CCGTACTTAGACATAGCTAACCGACAGGCAGATCAATCAGAATTCCTCCATCAGAAAGAAAAGCCCTTA
 TGTTAGCTATGGGATATCATGAGAAGGGCAGAGCTTTCCTGAAAAGAAAAGAATATGGAATAGCCTTGCC
 ATGTCTGTTGGACGCTGACAAATATTTCTGTGAGTGTTCAGAGAGCTGCTGGACACAGTGGATAACTAC
 GCCGCTCCAGCTGGATATAGTGTGGTGTACTTCCGCTGGAACAGCTGGAATGCCTTGATGATGCAG
 AAAAAAATAAACTTGGCCAGAAATGCTTAAAAATTGTTACGGAGAAAATCATCAGAGACTGGTCCA
 CATAAAAGGAAATGTGGGAAAGAGAAGTACTGTTTCTAAGACTCTACTTCAAGGGATCCGAAAC
 TATCACAGTGGAAATGATGTAGAGGCTTATGAGTATCTTAAACAGGCACGTCAGCTCTTAAAGAGCTAT
 ATATTGATCCATCAAAAGTGGACAATTTGTTGCAGTTGGGTTTACTGCCAGGAAGCCGGCTTGGCCT
 GAGGGCGTGTGATGGGAACGTGGATCATGCGGCCACTCATATTACCAACCGCAGAGAGGAACTGGCCCAA
 ATAAGGAAGGAGGAAAAAGAGAAGAAAAGACGCGCCTCGAGAACATCAGGTTTCTGAAAGGGATGGCT
 ACTCCACGCACGCGGCCAGCAGATTCTGCTCAGCAATCCTCAGATGTGGTGGTAAATGATTCCAATCC
 TGAAACCGACAACCGTCAAGAAAGTCTTCCCAGGAAAACATTGACCGATTGGTGTACATGGGTTTTGAT
 GCACTCGTGGCCGAAAGCTGCGCTGAGAGTGTTCAGAGGCAACGTCAGCTGGCCGCCAGACCCTTGCTC
 ACAACGGAGGAAGCCTGCCTCCGAGCTGCCGCTGTCGCCAGAAGACTCTTGTCCCGCCAGCCACGTC
 CCCTTCTGACTCCGAGGAACCTCTAGTGCCTCAACAGACGAAGACATGGAGACAGAGCCGCTCAATGAG
 ATACTGGAAGACATTCCAGAGCATGAGGAAGACTATCTTGACTCAACTCTGGAAGATGAAGAAATATTA
 TTGCAGAGTACCTATCTATGTAGAAAATAGGAAGTCAGCAACAAGAAAAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208098 representing NM_016118
 Red=Cloning site Green=Tags(s)

MAQKKYLQAKLTQFLREDRIQLWKPPYTENKVKVGLALKDLAKQYSDRLECCENEVEKVIEEIRCKAIER
 GTGNDNYRTTGIATIEVFLPPRLKKDRKNLLETRLHITGRELRSKIAETFGLQENYIKIVINKKQLQLGK
 TLEEQGVAHNVKAMVLELQSEEDARKNFLEEEEQNEAKLKEKQIQRTKRGLEILAKRAAETVVDPEMT
 PYLDIANQTGRSIRIPPSERKALMLAMGYHEKGRAFLKRKEYGIALPCLLDADKYFCECCRELLDVTVDNY
 AVLQLDIVWCYFRLEQLECLDDAEKLNLAQKCFKNCYGENHQRLVHIKGNCGKEKVLFLRLYLLQGIRN
 YHSGNDVEAYEYLNKARQLFKELYIDPSKVDNLLQLGFTAQEARLGLRACDGNVDHAATHITNRREELAQ
 IRKEEKEKRRRLENIRFLKMGYSTHAAQQILLSNPQMWLNDSPETDNRQESPSQENIDRLVYMGFD
 ALVAAALRVFRGNVQLAAQTLAHNGGSLPPELPLSPEDSLSPATSPSDSAGTSSASTDEDMETEAVNE
 ILEDIPEHEEDYLDSTLEDEEIIIAEYLSYVENRKSATKKN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_016118

ORF Size: 1803 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:

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_016118.3](#), [NP_057202.2](#)

RefSeq Size: 3112 bp

RefSeq ORF: 1806 bp

Locus ID: 51667

UniProt ID: [Q9Y5A7](#)

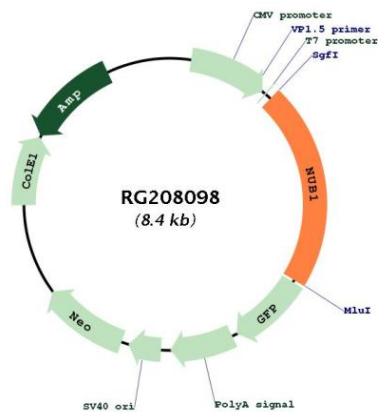
Cytogenetics: 7q36.1

Domains: UBA

Protein Families: Druggable Genome

Gene Summary: 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]

Product images:



Circular map for RG208098