

Product datasheet for **RG201806**

NUP88 (NM_002532) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP88 (NM_002532) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUP88
Synonyms:	FADS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG201806 representing NM_002532
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCTAACCACGTCGTGT
 TCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTCGTCGTT
 GCCTTCGTCGCCGCCGCCGAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCTG
 TGGGACGGAGAAGACAGCTCCTTCTAGTCGTTGCGCTTCGGGGCCCCAGCGCGCGCGGCAAGAGCCCG
 CCCTGTCCAGTACCAGAGATTGCTTTCATATAATCCACCCCTGTTTGAATCTATCAAGCTTGTAAAG
 CCCAACACAACATCATGTAGCACTTATAGGAATAAAAGGACTTATGGTATTAGAATTACCTAAAAGATGG
 GGAAGAATTCTGAATTTGAAGGTGAAAATCAACAGTGAATTGTAGTACCACTCCAGTTGCGGAGAGAT
 TTTTACCAGTTCACCTCTCTGACTCTAAAGCATGCTGCATGGTATCCAAGTGAATCTGGATCCCCA
 CGTAGTGCTGTTAACATCAGACAACGTAATCAGAATTTACTCACTACGTGAGCCGAGACACCCACTAAC
 GTGATAATACTTTCAGAAGCCGAAGAGGAAAGTCTAGTACTCAATAAAGGAAGGGCGTATACCGCATCTC
 TAGGAGAGACAGCAGTTGCATTTGACTTTGGGCCATTGGCAGCAGTCCCAAGAGCTCTATTTGGACAAAA
 CGGCAAGATGAAGTAGTGGCATACCCACTGTACATCTTATATGAAAATGGAGAGACTTTCTGACATAC
 ATCAGTCTGTTACACAGCCCTGGAAATATTGAAAGCTGTTGGGTCCATTGCCCATGCATCTCTGCGGCTG
 AAGATAACTATGGTTATGATGCGTGTGCTGACTCTGCTTACCCTGTGTCCCAATATCTTAGTGATCGC
 TACTGAATCAGGAATGCTGTATCACTGTGCTGCTAGAAGGGGAAGAAGAAGATGACCACAGTCAGAA
 AAGTCTGGGATTCCAGGATTGACCTCATTCTCTCTGTATGTGTTGAATGTGTTGAGTTGGAGCTTG
 CTTTGAAACTGGCATCTGGAGAGGATGACCCCTTTGATTCTGACTTTTCTTGCCAGTCAAACCTCATAG
 AGATCCCAAGTGTCTTCAAGATATCACTGTACTCATGAAGCTGGTGTACATAGTGTGGGCTAACTTGG
 ATTCATAAACTTCACAAATTTCTTGATCAGATGAAGAAGATAAGGATAGTTTACAGGAACCTCTACAG
 AACAGAAATGCTTTGTTGAACACATCCTTTGTACGAAGCCATTGCCCTGCAGGCAGCCAGCTCCAATTG
 AGGATTTTGGATTGTACCTGACATTCTGGGACCCACGATGATCTGCATCACCAGTACCTATGAATGCCTC
 ATATGGCCGTTATTAAGTACAGTCCATCCAGCGTCTCCTCCCCTGCTTTGTAAGTACGAGAAGATGTTGAAG
 TGGCAGAGTCTCCCTCCGTGTTCTGGCTGAAACCCAGATTCTTTGAAAAGCATATTAGAAGCATTTT
 GCAACGTAGTGTGCAATCCAGCATTTTGAAGCTTCTGAAAAGGACATAGCCCTCCTCCTGAAGAA
 TGCTTCAGCTCCTCAGCAGAGCCACCCAGGTGTTGAGAGAGCAGTACATTCTCAAACAGGACTTGGCAA
 AGGAGGAGATTACGCGGAGGGTCAAATTATTATGTGACCAAAAAAAGAAACAAGTGAAGATCTCAGTTA
 TTGTGAGAAGAGAGGAAAGTCTGCGGAAATGGCTGAGCGTTTACTGACAAATATGAGGAAGCTAAA
 GAAAAACAAGAGGATATCATGAACAGGATGAAAAAAGTCTTACAGTCTTCACTCTGAGCTCCAGTTC
 TCTCTGATAGTGAGCGAGACATGAAGAAAGATTATCAACAGCAAAAGATGGAGAAGGTGTTGAGTCTTCCA
 TGCCATCAAACAGGTTACTATGAAAAGGATTATCAACAGCAAAAGATGGAGAAGGTGTTGAGTCTTCCA
 AAACCCACCATATTCTCAGTGCCTACCAGCGAAAGTGCATTGAGTCCATCCTGAAAGAGGAGGGTGAAC
 ATATAAGGGAATGGTGAAGCAAATCAATGATATCCGCAATCATGTAACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201806 representing NM_002532
 Red=Cloning site Green=Tags(s)

MAAEEGPVGDGELWQTLPNHVVFLRLREGLKNQSPTEAEKPASSSLPSSPPPQLLTRNVVFGLGGEFL
 WDGEDSSFLVRLRGPSSGGEEPALSQYQRLLCINPPLFEIYQVLLSPTQHHVALIGIKGLMVLELPKRW
 GKNSEFEGGKSTVNCSTTPVAERFFTSSSTLTLKHAAWYPSEILDPHVLLTSDNVIRIYSLREPQTPTN
 VIILSEAEESLVLNKGAYTASLGETAVAFDFGLAAVPKTLFGQNGKDEVVAYPLYIYENGETFLT
 ISLLHSPGNIGKLLGPLMHPAAEDNYGYDACAVLCLPCVPNILVIATESGMLYHCVVLEGEEDDHTSE
 KSWDSRIDLIPSLYVFECVELELALKLASGEDDPFSDSCPVKLHRDPKCPSTRYHCTHEAGVHSVGLTW
 IHKLHKFLGSDEEDKDSLQELSTEQKCFVEHILCTKPLCRQPAPIRGFWIVPDILGPTMICITSTYECL
 IWPLLSTVHPASPPLCTREDVEVAESPLRVLAETPDSFEKHRSILQRSVANPAFLKASEKDIAPPPEE
 CLQLLSRATQVFREYILKQDLAKEEIQRRVKLLCDQKKKQLEDLSYCREERKSLREMAERLADKYEEAK
 EKQEDIMNRMKLLHSFSELPLVSDSERDMKKELQLIPDQLRHLGNAIKQVTMKKDYQQQKMEKVLSP
 KPTIILSAYQRKCIQSILKEEGEHIREMVKQINDIRNHVNF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002532

ORF Size: 2223 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_002532.6](#)

RefSeq Size: 2381 bp

RefSeq ORF: 2226 bp

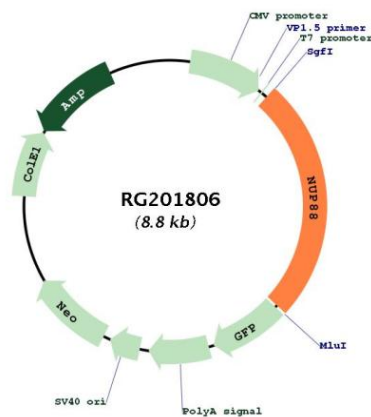
Locus ID: 4927

UniProt ID: [Q99567](#)

Cytogenetics: 17p13.2

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, a family of 50 to 100 proteins, are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene belongs to the nucleoporin family and is associated with the oncogenic nucleoporin CAN/Nup214 in a dynamic subcomplex. This protein is also overexpressed in a large number of malignant neoplasms and precancerous dysplasias. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG201806