

## Product datasheet for **MG211206**

### **Nup107 (NM\_134010) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nup107 (NM_134010) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nup107
Synonyms:	AW541137; C76801
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG211206 representing NM\_134010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACAGGAGTGGCTTCGGGGGATGTCATCCCCTGTGATCCGGGATGCGGAGGTGACGAGGACTGCC  
 GGAAGCACAGTGTCTACAAAAGAGTTCTAATTCAGGCCAACCAAGAGACAATTTTGGTACTGCTACACC  
 AAGAAGCCAGATCATTCCCTCGAACGCCAAGCTCCTTTCGACAGCCTTTTGTACTCCATCGAGCCGAAGC  
 CTAAGTACAGACACCCGGATATTTCTACATTTCTGGAACGGAAGGGAGGTCTCCCGGCACACACAGTCTT  
 CTGGTACTTGGGAAATCTTTCTATGGTGACTAATCTTGATGACAGCAACTGGGCAGCTGCATTCTCATC  
 CCAGCGTTTAGGGCTCTACACAAACACAGAGCATCATAGTATGACCGAGGATGTGAACCTAAGTACTGTC  
 ATGCTACGGGAAGACGACCCTGGAGAGGCTGCATCCATGAGCATGTTCTCTGATTTCTGCCTCTTTCT  
 TGAAGCACTCTTCAACCACAGTCTTTGATCTCGTAGAAGAATATGAAAATATTTGTGGTAGTCAGGTGAA  
 TATCCTCAGTAAAATAGTGAAGCCGCAACGCCCTGGACTGCAGAAGTTTCCAAGACGGCCAGTATGCTC  
 TGGCTTCTCAACAGGAGATGGTACATGGAGGCTGCTCGCCTCTTTGTACAGAGACAGAATACAGTCTT  
 CATTAGAAGAGGAAAATATGTTTGAATGCTGGTATTAAATGCCAGCGAGAAGATGGTTGTGAAAACGCT  
 GTTTCAGAGGGACTCACTGGTCCGGCAGAGCCAGTTGGTGGTAGATTGGCTAGAGAGTATTGCCAAAGAT  
 GAAATCGGAGAATTTCTCGGACAATATTGAGTTTATGCAAAATCAGTGTATTGGGAAAATACCCTCCACT  
 CCTTAAAGCAGCGGCAGCTACTGTCTCACATGGGAAGTACCCGGCCTCTGGTCACCGAAGTGGACCCAGA  
 CGCTCCCATAGACAGAAGTTGCCACTCGACGATCTGGACAGAGAGGACGAGGTGACTGCTGAAGTAC  
 CTCTTACGCTCATCCGTGCTGGCATGACAGAGGAGGCACAACGGCTCTGTAACGGTGTGGGCAAGCAT  
 GCGGAGCTGCAACCCCTGGAAGGCTGGAACCTGTACCATGACCCTAATGTTAATGGAGGACAGAGCTAGA  
 ACCTGTTGAAGGGAATCCATATAGACGCATCTGGAAGATTAGTTGCTGGAGAATGGCTGAAGATGAACTT  
 TTTAATAAATATGAAAGAGCGATTTACGCGGCACTGAGTGGGAACCTTAAGCAGCTCCTTCCAGTCTGTG  
 ACACGTGGGAAGACACGGTGTGGCCCTACTTCCGGGTGATGGTGGATAGCCTGGTGGAGCAGGAGATTGCG  
 GACATCAGTAATGACGCAGGATGACAGTGGAGGCTCCCTCGAGAGTACATGGAAGCCAATTGGACCTTA  
 GAAAAAGTTTTGAAAGACTTCAAGCCACTGATAAAAAGAGAGTTCTGGAGGAGAATCAAGAGCATTACC  
 ATATAGTTCAGAAATTCCTATCCTGGGAGACGTTGATGGTTGATGGATGAATTTAGCAAATGGCTGTC  
 CAAGAGCGGAAGCAGTCTGCCCGACACCTGCTCCGTTTATGACACACCTCATTCTGTTTCTCCGCACC  
 CTAGGCCCTCCAGACCAAGGAAGAAGTTCCATTGAAGTTCTAAAACATATATACAGCTGTTAATAAGCG  
 AGAAGCACACAAGCCTCATAGCGTTCTATACCTGTCATCTGCCTCAAGACCTCGCCGTGGCCAGTATGC  
 CTATTTTTGGAAGGTGTTACGGAATTTGAGCAGCGGCACCAGTCCCTAGAGCTGGCTAAGGAAGCAGAC  
 TTGGATGTTGCGACGATAACGAAAATGTAGTTGAGAATATTTGCAAGAAAGATAATGGTGAATTTAGTC  
 ACCATGACCTGGCTCCATCCCTAGACACTGGCACTACTGAGGAGGACCGCCTGAAGATTGATGTGATCGA  
 CTGGCTCGTGTGTTGACCCGGCACAGAGAGCGGAAGCCCTGAGGCAAGGCAACGCCATCATGAGGAAGTTC  
 TTAGCATTAAAGAAACATGAAGCTGCAAAAAGAGTGTGTTGAAAATTCCTCAGGATTCCATCGCAGAGA  
 GCATTTGTGATCAGAGCCTATCTGGAAGCCCATGAAACCTTCAACGAATGGTTTAAACATATGAATTCG  
 GCTCCACAGAAAACCTACATTACTATCTCAAGCACTTTTACAGAGAAAAGTGGCTTATGAACACAGAGAAA  
 AGAAAACAGAGATGGATCATAATATTTGAAAAGGACATTTGGATGCCCTAACTGCTGATGTGAAGGAGAA  
 AATGTACAACGCTTGTGTTGTTGTTGATGGAGGATGGATGGTGGATGTCAGAGAGGACGCCGAGGACGAC  
 CCTGAGCGGACGCATCAGATGGTTTTACTGAGGAAGCTCTGTCTCCCATGCTGTGCTTCTGCTTCA  
 CCATACTGCACAGCACCGGACAGTACCAGGAGTGCCTGCAGCTGGCCGACATGGTGTCTCTGAGCGCCA  
 CAAGCTCTATCTGGTGTGTTTCTAAGGAAGAACTAAGGAACTGCTGCAGAAGTTAAGGGAGTCTCTCTA  
 ATGCTCTAGACCAGGGCTCGACCCGCTTGCTATGAAATTCAGTCA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211206 representing NM\_134010  
 Red=Cloning site Green=Tags(s)

MDRSGFGGMSSPVIRDAEVTRTARKHSAHKRVLIQANQEDNFGTATPRSQIIPRTPSSFRQPFTVTPSSRS  
 LLRHPDISYILGTEGRSPRHTQSSGYLGNLSMVTNLDDSNWAAAFSSQRLGLYNTTEHHSMTEDVNLSTV  
 MLREDDPGEAASMSMFSDFLHSLFKHSSTTVFDLVEEYENICGSQVNIISKIVSRATPGLQKFSKTASML  
 WLLQQEMVTWRLLASLYRDRIQSSLEENMFIAIGINASEKMVETLFRQDSLVRQSQLVVDWLESIAKD  
 EIGEFSDNIEFYAKSVYWENTLHSLKQRQLLSHMGSTRPLVTELDPDAPIRQKLPLDDLREDEVRLKY  
 LFTLIRAGMTEEAQRLCKRCQAWRAATLEGWKLYHDPNVNGGTELEPVEGNPYRRIWKISCWMAEDEL  
 FNKYERAIYAALSGNLKQLLPVCDTWEDTVWAYFRVMVDSLVEQEIRTSVMTQDDSEELPREYMEANWTL  
 EKVFEEQLATDKKRVLEENQEHYHIVQKFLILGDVDGLMDEFKWL SKSGSSLPGHLLRFMTHLILFLRT  
 LGLQTKEEVSIEVLKTYIQLLISEKHTSLIAFYTCHLPQDLAVAQYALFLEGVTEFEQRHQCLELAKEAD  
 LDVATITKTVVENICKKDNGEFSHDLAPSLDTGTTTEEDRLKIDVIDWL VFDPAQRAEALRQGNAIMRKF  
 LALKKHEAAKEVFKIPQDSIAE IYNQWEEQGMESPLAEDDNAIREHLCIRAYLEAHETFNEFWKHMNS  
 APQKPTLLSQATFTEKVAYEHREKKYEMDHNIWKGHLDALTADVKEKMYNVLLFVDGGWMDVREDAEDD  
 PERTHQMVLLRKLCLPMLCFLHHTILHSTGQYQECLQLADMVSSERHKL YLVFSKEELRKLQLKRESSL  
 MLLDQGLDPLGYEIQS

TRTRPLE – GFP Tag – V

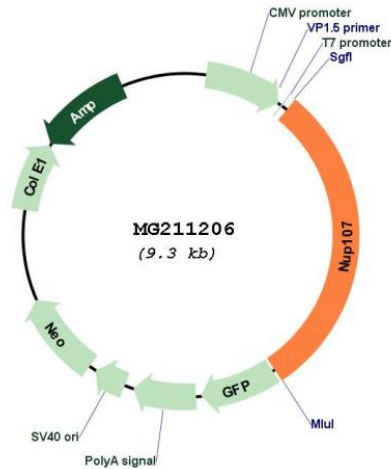
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_134010

ORF Size: 2778 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\\_134010.2](#), [NP\\_598771.1](#)

RefSeq Size: 3092 bp

RefSeq ORF: 2781 bp

Locus ID: 103468

UniProt ID: [Q8BH74](#)

Cytogenetics: 10 D2

**Gene Summary:**

Plays a role in the nuclear pore complex (NPC) assembly and/or maintenance. Required for the assembly of peripheral proteins into the NPC. May anchor NUP62 to the NPC. Involved in nephrogenesis.[UniProtKB/Swiss-Prot Function]