

Product datasheet for **SC126878**

NUP107 (NM_020401) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP107 (NM_020401) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP107
Synonyms:	GAMOS7; NPHS11; NUP84; ODG6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC126878 sequence for NM_020401 edited (data generated by NextGen Sequencing)

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ATGGACAGGAGTGGCTTTGGAGAGATATCATCCCCTGTAATCCGGGAGGCAGAGGTGACA
CGGACTGCACGAAAACAGAGTGCTCAGAAAAGAGTTTTACTTCAGGCATCTCAAGATGAA
AATTTTGGTAATACTACACCAAGAAACAGGTTATCCCTCGAACTCCTAGCTCATTTCGA
CAGCCTTTTACCCCAACAAGCCGAAGCTTACTAAGGCAGCCAGATATTTCTGCATTCTT
GGAACAGGAGGGAAGTCGCCCGACTTACGCAGTCTTCAGGGTCTTTGGAAATCTCTCC
ATGTTTACTAATCTGGATGACAGTAACTGGGCAGCTGCATTTTTCATCACAGCGTCCGGG
CTGTTTACAAAACAGAGCCCCACAGTAAACAGAAGATGTAACATCAGTGCTGTTATG
TTACGTGAGGATGATCCTGGAGAAGCTGCATCCATGAGTATGTTTTCTGATTTCTCGAC
TCTTTTCTGAAGCACTCTTCGAGTACAGTTTTTGTCTTGTGGAAGAGTATGAAAACATC
TGTGGTAGTCAGGTGAATATACTGAGTAAAATAGTGAGTCGAGCAACACCTGGACTTCAA
AAATTTTCAAAAACAGCCAGTATGCTCTGGCTTCTTCAACAGGAGATGGTACATGGAGG
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AATAGATACGAGAGCAATTTATGCAGCTTTAAGTGGGAATCTTAAGCAGCTGCTTCT
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GTAGAACAAGAGATCCAGACATCAGTAGCAACTCTGGATGAAACTGAAGAACTCCCTAGA
GAATATCTGGGAGCAAACCTGGACGTTAGAAAAGGTTTTTGGAACTTCAAGCTACTGAC

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AAAAAGAGAGTTCTGGAAGAGAATCAAGAACATTATCATATAGTTCAAAAAGTTTCTTATC
 CTGGGAGACATTGATGGTTTGTATGGATGAGTTTAGCAAATGGCTTCCAAAAGCAGAAAC
 AATCTACCTGGACACCTGCTTCGCTTTATGACTCACCTTATTTTGTTCCTGACTCTG
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 ATAAGAGAGAAACATACAAATCTTATAGCATTATACCTGTCAATTTGCCTCAAGACCTA
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 GATACTGGCACTACTGAGGAGGATCGTTTTAAAAATTGATGTAATTGACTGGTTGGTATTT
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 CTTTCATACGATATTGCACAGTACTGGTCAGTATCAGGAATGCCTACAGTTAGCAGATATG
 GTATCCTCTGAGCGCCACAACTGTACCTGGTATTTTCTAAGGAAGAGCTAAGGAAGTTG
 CTGCAGAAAGCTCAGAGAGTCCCTCTAATGCTCCTAGACCAGGGACTTGACCCATTAGGG
 TATGAAATTCAGTTATAG

Clone variation with respect to NM_020401.2

72 g=>a;1389 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020401 unedited
 GGGTTCNCATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCTTCCGGA
 GAGCGGAAGGCTAAAACGCGGTAGCTAACTGCAGCCAACTTTGGTTGTGTGGAAAA
 GGCTTTAGCCATGGACAGGAGTGGCTTTGGAGAGATATCATCCCCTGTAATCCGGGAGGC
 AGAGGTGACACGGACTGCACGAAAACAGAGTGTCTAGAAAAGAGTTTTACTTCAGGCATC
 TCAAGATGAAAATTTTGGTAATACTACACCAAGAAACCAGGTTATCCCTCGAACTCCTAG
 CTCATTTTCGACAGCCTTTTACCCCAACAAGCCGAAAGCTTACTAAGGCAGCCAGATATTT
 CTGCATTTTGGAAACAGGAGGGAAGTCGCCCCGACTTACGCAGTCTTCAGGGTTCTTTGG
 AAATCTCTCCATGGTTACTAATCTGGATGACAGTAACTGGGCAGCTGCATTTTCATCACA
 GCGTTCGGGCTGTTACAAAACACAGAGCCCCACAGTATAACAGAAGATGTAACATATCAG
 TGCTGTTATGTTACGTGAGGATGATCCTGGAGAAGCTGCATCCATGAGTATGTTTTCTGA
 TTTCTGAGTCTTTTCTGAAGCACTCTTCGAGTACAGTTTTTGTCTTTGTGGAGAGTA
 TGAACATCTGTGGTAGTCAAGTGAATATACTGAGTAAAATAGTGAGTCGAGCAACACC
 TGGACTTCAAAAATTTTCAAAAACAGCCAGTATGCTCTGGCTTCTTCCACAGGAGATGGTC
 ACATGGAAGGCTGCTGGCTTCTTTGTATAAAGACAGAATACAGTCTGCATTAAAAGAGGA
 AAGTATTTCGAAGTTCTGGTGTAAAGCCAGTGGAAAAACCATTGGGGAACCGTTATTT
 AAAGGATTCACCTGT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020401 unedited ATTTCTTTTTTTTTNTTTGTGAAAAACAGTATAATTTTAATTTTATATAGTTTTATTA ACAAGCACACAGGAAAAACGCTGATATCCCTACATGTTGAAAGTGTACAGATAATATTCT CGAAAAGTACAAAATTCAAATGTCTAAATTTTACATGGTAATGCAAAAAGAAAAATTACT AATAACAAGTATATTTTATTAATACTTCATTTATCATGAAAATTAGTGAGATTACAAAG ATTAACATAACTGAATTTTCATACCCCTAATGGGTCAAGTCCCTGGTCTAGGAGCATTAG AGAGGACTCTCTGAGCTTCTGCAGCAACTTCTTAGCTTCTCTTAGAAAATACCAGGTA CAGTTTGTGGCGCTCAGAGGATACCATATCTGCTAACTGTAGGCATTCTGATACTGACC AGTACTGTGCAATATCGTATGAAGCAGAAAAACACAACATTGGCAGACAAAGCTTTCTCAG TAAGACCATTTGATGTGTTCTTTCATGGTCTTCTTTGGCATCCTCTAACATCCACCAT CCACCCTCCATCAACAACAACAAGACGTTATACATTTTCTCCTTACATCAGCAGTTAG GGCATCCAAATGCCCTTTCCAAATACCAAAATCCATTTTCATATTTCTTTTCTTGGGTTT ATGAGCCACTTTCTCAGTAAAAGTTTNTTGAGGTATCAAAGCAGGTTTTGTGGAAGTGA ATTCATATGCTTAAACCACCTCATTAAAGTTTCATGGGCGTTCAAATAACTCTGATGCAC AATGTTCTCGGATAGCATTATCATCTTCAGCAAGAAGTGGACTTCCATCCCTGTGCCTC CACTGAATATAGATTTCTGCTATAGATCCTGAGGATATCCAAATACCTCCTTGCCACTT CCTGCTTTTTGGAGCCAGAATTTCTCATATTGCTT
Restriction Sites:	NotI-NotI
ACCN:	NM_020401
Insert Size:	3500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_020401.2 , NP_065134.1
RefSeq Size:	3158 bp
RefSeq ORF:	2778 bp
Locus ID:	57122
UniProt ID:	P57740
Cytogenetics:	12q15
Domains:	Nup84_Nup100

Gene Summary:

This gene encodes a member of the nucleoporin family. The protein is localized to the nuclear rim and is an essential component of the nuclear pore complex (NPC). All molecules entering or leaving the nucleus either diffuse through or are actively transported by the NPC. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.