

Product datasheet for **SC114106**

NUP54 (NM_017426) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP54 (NM_017426) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUP54
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114106 sequence for NM_017426 edited (data generated by NextGen Sequencing)

```
ATGGCCTTCAATTTTGGGGCTCCCTCGGGCACCTCCGGTACCGCTGCAGCCACCGCGGCC
CCCGCGGTGGGTTTGGAGGATTTGGGACAACATCTACAAGTGCAGGTTCTGCATTACAGC
TTTTCTGCCCCAACTAACACAGGCACTACTGGACTCTTTGGTGGTACTCAGAACAAAGGT
TTTGGATTTGGTACTGGTTTTGGCACAACAACGGGAAGTACTGGTTTAGGTACTGGT
TTGGGAAGTGGTGGGATTTGGAGGATTTAATACACAGCAGCAGCAGCAAACTACATTA
GGTGGTCTCTTCAGTCAGCCTACACAAGCTCCTACCCAGTCCAACAGCTGATAAAATACT
GCGAGTGTCTTTCTGCTCCAACGCTGTTGGGAGATGAGAGAGATGCTATTTTGGCAAAA
TGAATCAACTGCAGGCCTTTTGGGAACAGGAAAAGGGTATTTCAACAATAATATTCGG
CCAGTGAATTCACACAAGAAAATCCCTTTTGGCGATTTAAGGCAGTAGGTTATAGTTGC
ATGCCCAGTAATAAAGATGAAGATGGGCTAGTGGTTTTAGTTTTCAACAAAAAGAAACA
GAGATTCGAAGCCAACAACAACAGTTGGTAGAATCATTGCATAAAGTTTTGGGAGGAAAC
CAGACCTTACTGTAATGTAGAGGGCACTAAACATTGCCAGATGATCAGACAGAAGTT
GTTATTTATGTTGTTGAGCGTTCGCCAAGTGGTACTTCAAGAAGAGTTCCAGCTACAACG
CTATATGCCCATTTTGAACAAGCCAATATAAAAAACAATTGCAGCAACTTGGTGTAAAC
CTTTCTATGACTAGAACAGAAGCTTTCTCCTGCACAGATCAAACAGCTTTTACAGAATCCT
CCTGCTGGTGTGATCCTATTATCTGGGAACAGGCCAAGGTAGATAACCTGATTCTGAA
AAGTTAATTCCTGTACCAATGGTGGGTTTTAAGGAAGTCTCCGAAGACTGAAGGTTCAA
GATCAGATGACTAAGCAGCATCAAACAGATTAGATATCATATCTGAAGATATTAGTGAG
CTACAAAAGAATCAAACATCTGTAGCCAAAATTCACAATACAAGAGGAACTCATG
GATCTTTCCCATAGAAGTTTACAGGTCTAATCAAACAGGAAATTCAAAGGAAGAGTGGT
TATGCCATTGAGGCTGATGAAGAGCAGTTGCGAGTTGAGTGGATACGATTGAGGTTGAA
CTAAATGCACCTACTCAGTTCAAGGGCCGACTAAATGAATTGATGTCTCAAATCAGGATG
CAGAATCATTTTGGAGCAGTCAGATCTGAAGAAAGGTATTACATAGATGCAGATCTGTTA
CGAGAAATCAAGCAGCATTTGAAACAACAACAGGAAGGCCTTAGCCATTTGATTAGCATC
ATTAAAGACGATCTAGAAGATATAAAGCTGGTGAACATGGATTGAATGAAACCATCCAC
ATCAGAGGTGGTGTCTTTAGTTGA
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Clone variation with respect to NM_017426.2
749 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017426 unedited

```
GTTANGATTTTGTAAACGACTTACTATAGGGCGGCCGGAATTCGCGCAGCTTTTCGCG
ACATGGGCCTTCAATTTTGGGGCTCCCTCGGGCACCTCCGGTACCGCTGCAGCCACCGCG
GCCCCCGCGGGTGGGTTTGGAGGATTTGGGACAACATCTACAAGTGCAGGTTCTGCATTCT
AGCTTTTCTGCCCCAACTAACACAGGCACTACTGGACTCTTTGGTGGTACTCAGAACAAA
GGTTTTGGATTTGGTACTGGTTTTGGCACAACAACGGGAAGTACTGGTTTAGGTACT
GGTTTGGGAAGTGGACTGGGATTTGGAGGATTTAATACACAGCAGCAGCAGCAAACTACA
TTAGGTGGTCTCTTCAGTCAGCCTACACAAGCTCCTACCCAGTCCAACAGCTGATAAAT
ACTGCGAGTGCTCTTTCTGCTCCAACGCTGTTGGGAGATGAGAGAGATGCTATTTTGGCA
AAATGGAATCAACTGCAGGCCTTTTGGGAACAGGAAAAGGGTATTTCAACAATAATATT
CCGCCAGTGGAATTCACACAAGAAAATCCCTTTTGGCGATTTAAGGCAGTAGGTTATAGT
TGCATGCCAGTAATAAAGATGAAGATGGGCTAGTGGTTTTAGTTTTCAACAAAAAGAA
ACAGAGATTCGAAGCCAACAACAACAGTTGGTAGAATCATTGCATAAAGTTTTGGGAGGA
AACCACACCTTACTGTAATGTAGAGGGCACTAAACATTGCCAGATGATCAGACAGAA
GTTGTTATTTATGTTGTTGAGCGTTCGCCAAGTGGTACTTCAAGAAGAGTTCAGCTACAA
CGCTATATGCCCATTTTGACAACCCATATAAAAAACAATTGCCACCACTCTGCTGTAC
CCCTTTCTATGACTAGAACAGAAGCTT
```

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017426 unedited

```
GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTAATTACAAATTAATAATTTATTTATAAGTTTCATTTTTTAAAAATAAAA
AGGCTTAATAAAACAAATGGTTGCAAAATGGTTAAGTAGTTTGTATATCTCAATTGC
TTAGGGGGGCTCTGTAATTCCAAATAAGTAAAATAATATAAAATACATTTTCATTTTT
TTATAGAACAAAAACAAACATTAAATGCTTTTGGATTTTTTTTACTCCTCCACAGATG
AGTTCACAAATACAAAAACTGGTGTAATTTATACTCAAGTACAAATCTCCACAGCCAGG
ATTATAATTTGGTCTGTATTGGCCAAGAAAATTTTTATTTTCCCTTGGTTGGGAACAA
ATCCCGGTTTTGGGGAATTTTTTTTTTAAACCCATTTTTTTTTTAAAAAACGGTTGGGA
AAAAGCCCCCCCCCCCCCTTGGGGGGAAACCCCCCTTTTTAAAAAAAACCCCTT
TTATAAAATTTTTAGAGGGTTTTTTTTAGAGGGGGGGGGGTGTTTTTTTTTTGTAAAA
AATTTTTTTTATTTTTTTTTTAAACACCCCCCAAGAGGGTTTTTTTTTTTTCCCTCCC
GGGGGTTTTTTTTTTGGGGGGGGGGGGAGAAAAAATACTCCCCCCCCCCCCC
CGGGGGGGGGGAAAAACACCCCCCCCCCGGGGGGGGGGGCCTCTCCCCCCCCC
CCTTTCCTTTTTTTTTTGTGGGAGGGGAGGGGG
```

Restriction Sites:

Not|-Not|

ACCN:

NM 017426

Insert Size:

2240 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:

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 017426.2, NP 059122.2

RefSeq Size:

2358 bp

RefSeq ORF:

1524 bp

Locus ID:

53371

UniProt ID:

Q7Z3B4

Cytogenetics:

4q21.1

Gene Summary:

The nuclear envelope creates distinct nuclear and cytoplasmic compartments in eukaryotic cells. It consists of two concentric membranes perforated by nuclear pores, large protein complexes that form aqueous channels to regulate the flow of macromolecules between the nucleus and the cytoplasm. These complexes are composed of at least 100 different polypeptide subunits, many of which belong to the nucleoporin family. This gene encodes a member of the phe-gly (FG) repeat-containing nucleoporin subset. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jun 2013]
Transcript Variant: This variant (1) encodes the longer isoform (1).