

Product datasheet for **RC238351**

NUP54 (NM_001278603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP54 (NM_001278603) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUP54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

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>RC238351 representing NM_001278603
Red=Cloning site Blue=ORF Green=Tags(s)
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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCTTCAATTTTGGGGCTCCTCGGGCACCTCCGGTACCGTGACGCCACCGCGGCCCGCGGGTG
GGTTTGGAGGATTTGGGACAACATCTACAACGCAGGTTCTGCATTAGCTTTTCTGCCCAACTAACAC
AGGCACTACTGCATTAGGTGGTCTCTTCACTCAGCCTACACAAGCTCCTACCCAGTCCAACCAGCTGATA
AATACTGCGAGTGCTCTTTCTGCTCCAACGCTGTTGGGAGATGAGAGAGATGCTATTTTGGCAAAATGG
ATCAACTGCAGGCCTTTTGGGGAACAGGAAAAGGATTTTCAACAATAATATTCCGCCAGTGGAATTAC
ACAAGAAAAATCCCTTTTGCCGATTTAAGGCGTAGGTTATAGTTGCATGCCAGTAATAAAGATGAAGAT
GGGCTAGTGGTTTTAGTTTTCAACAAAAAAGAAACAGAGATTCGAAGCCAAACAACACAGTTGGTAGAAT
CATTGCATAAAGTTTTGGGAGGAAACAGACCTTACTGTAAATGTAGGGGCATAAAACATGTCGAGA
TGATCAGCAAGAGTGTATTATTTAGTTGTGAGCGTTCCGCAAAATGGTACTTCAAGAAGAGTTCCGAGT
ACAACGCTATATGCCATTTTGAACAAGCCAATATAAAAACAACAAATGCAGCAACTTGGTGTAAACCTTT
CTATGACTAGAACAGAAGCTTTCTCCTGCACAGATCAAACAGCTTTTACAGAATCCTCCTGCTGGTGTGA
TCCTATTATCTGGGAACAGGCCAAGGTAGATAAACCCTGATTCTGAAAAGTTAATTCTGTACCAATGGTG
GGTTTTAAGGAAGCTTCTCCGAAGACTGAAGGTTCAAGATCAGATGACTAAGCAGCATCAAACCAGATTAG
ATATCATATCTGAAGATATTAGTGAGCTACAAAAGAATCAAACATCATCTGTAGCCAAAATTCGACAAAT
CAAGAGGAAACTCATGGATCTTTCCCATAGAAGTTTACAGGTCCTAATCAAACAGGAAATTCAAAGGAAG
AGTGGTTATGCCATTAGGCTGATGAAGAGCAGTTGCGAGTTACAGCTGGATACGATTACAGGTGAAGTAA
ATGCACCTACTCAGTTCAAGGGCCGACTAAATGAATTGATGTCTCAAAATCAGGATGCAGAAATCATTTTGG
AGCAGTCAGATCTGAAGAAAGGTATTACATAGATGCAGATCTGTTACGAGAAATCAAGCAGCATTTGAAA
CAACAACAGGAAGGCTTATGCCATTTGATTAGCATCATTAAAGACGATCTAGAAGATATAAAGCTGGTGC
AACATGGATTGAATGAACCATTCACATCAGAGGTGGTGTCTTTAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238351 representing NM_001278603
Red=Cloning site Green=Tags(s)

MAFNFGAPSGTSGTAAATAAPAGGFGGFTTSTTAGSAFSFSAPTNTGTTALGGLFSQPTQAPTQSNQLI
NTASALSAPTLLGDERDAILAKWNQLQAFWGTGKGYFNNNIPPVEFTQENPFCRFKAVGYSCMPSNKKDED
GLVVLVFNKKETEIRSQQQLVESLHKVLGGNQLTVNVEGKTLPPDDQTEVVIYVVERSPNGTSRRVPA
TTLA YHFEQANIKTQLQQLGVTL SMTRTELSPAQIKQLLQNPPAGVDPIIWEQAKVDNPDSEKLI PVP MV
GFKELLRLRKVDQMQTKQHQTRLDIISEDISELQKNQTSVAKIAQYKRKLMDSLHRTLQVL IKQEIQRK
SGYAIQADEHLQVLQDLTIQELNAPTOFKGLNELMSQIRMQNHFGAVRSEERYIIDADLLREIKQHLK
OOEGELSHLISIIKDDLEDIKVEHGLNETIHIRGGVFS

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001278603

ORF Size: 1377 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001278603.1](#), [NP_001265532.1](#)

RefSeq Size: 2237 bp

RefSeq ORF: 1380 bp

Locus ID: 53371

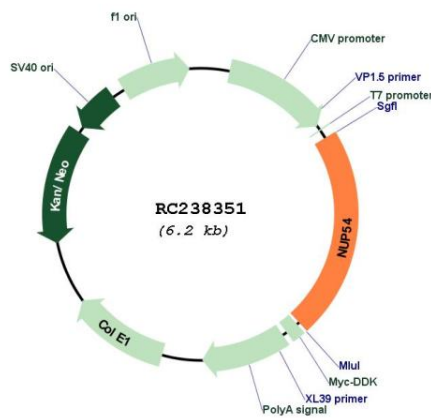
UniProt ID: [Q7Z3B4](#)

Cytogenetics: 4q21.1

MW: 51.2 kDa

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]

Product images:



Circular map for RC238351