

Product datasheet for **RC223454**

NUP54 (NM_017426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP54 (NM_017426) 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:

>RC223454 representing NM_017426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTCAATTTTGGGGCTCCCTCGGGCACCTCCGGTACCGCTGCAGCCACCGCGGCCCGCGGGTG
 GGTTTGGAGGATTTGGGACAACATCTACAAGTTCGAGTTCTGCATTTCAGCTTTCTGCCCAACTAACAC
 AGGCACTACTGGACTCTTTGGTGGTACTCAGAACAAGGTTTGGATTGGTACTGGTTTGGCACAACA
 ACGGGAAGTAGTACTGGTTAGGTACTGGTTGGGAAGTGGACTGGGATTTGGAGGATTTAATACACAGC
 AGCAGCAGCAAACTACATTAGGTGGTCTCTTCAGTCAGCCTACACAAGCTCCTACCCAGTCCAACAGCT
 GATAAATACTGCGAGTGCTCTTTCTGCTCCAACGCTGTTGGGAGATGAGAGAGATGCTATTTGGCAAAA
 TGGAACTCACTGCAGGCCTTTTGGGGAACAGGAAAAGGTATTTCAACAATAATATTCGCCAGTGGAA
 TCACACAAGAAAATCCCTTTTGGCGATTTAAGGCAGTAGGTTATAGTTGCATGCCAGTAATAAAGATGA
 AGATGGGCTAGTGGTTTTAGTTTTCAACAAAAAGAAACAGAGATTCGAAGCCAACAACAGTTGGTA
 GAATCATTGCATAAAGTTTTGGGAGGAAACAGACCCTTACTGTAATGTAGAGGGCACTAAAACATTGC
 CAGATGATCAGACAGAAGTTGTTATTTATGTTGTTGAGCGTTCGCCAAATGGTACTTCAAGAAGAGTTCC
 AGCTACAACGCTATATGCCCATTTTGAACAAGCCAATATAAAACACAATTGCAGCAACTTGGTGTAAAC
 CTTTCTATGACTAGAACAGAAGTTTCTCTGCACAGATCAACAGCTTTTACAGAATCCTCTGCTGGTG
 TTGATCCTATTATCTGGGAACAGGCCAAGGTAGATAACCTGATTCTGAAAAGTTAATCCTGTACCAAT
 GGTGGGTTTTAAGGAAGTCTCCGAAGACTGAAGGTTCAAGATCAGATGACTAAGCAGCATCAACCCAGA
 TTAGATATCATATCTGAAGATATTAGTGAGCTACAAAAGAATCAAACTACATCTGTAGCCAAAATTGCAC
 AATACAAGAGGAACTCATGGATCTTTCCATAGAAGTTTACAGGTCCTAATCAACAGGAAATTCAAAG
 GAAGAGTGGTTATGCCATTGAGGCTGATGAAGAGCAGTTGCGAGTTCAGCTGGATACGATTCAAGGTGAA
 CTAATGCACCTACTCAGTTCAAGGGCCGACTAAATGAATTGATGCTCAATCAGGATGCAGAATCATT
 TTGGAGCAGTCAGATCTGAAGAAAGGTATTACATAGATGCAGATCTGTTACGAGAAATCAAGCAGCATT
 GAAACAACAACAGGAAGGCCTTAGCCATTTGATTAGCATCATTAAAGACGATCTAGAAGATATAAAGCTG
 GTCGAACATGGATTGAATGAAACCATCCACATCAGAGGTGGTGTCTTTAGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223454 representing NM_017426
 Red=Cloning site Green=Tags(s)

MAFNFGAPSGTSGTAAATAAPAGGFGFGTTSTTAGSAFSSAPTNTGTTGLFGGTQNKGFSGTGFGT
 TGTSTGLGTGLTGLFGGFNTQQQQQTTLGGLFSQPTQAPTQSNQLINTASALSAPTLLGDERDAILAK
 WNQLQAFWGTGKGYFNIPPVEFTQENPFCRFKAVGYSCMPSNKDEGLVVLVFNKKETEIRSQQQQLV
 ESLHKVLGGNQTLTVNVEGKTLPPDDQTEVVIYVVERSPNGTSRRVPATTLVYHFEQANIKTQLQLGVT
 LSMTRTELSPAQIKQLLNPPAGVDPIIWEQAKVDNPDSEKLIPVPMVGFKELLRRLKVQDMTKQHQR
 LDIISEDISELQKNQTTSAKIAQYKRKLMDLSHRTLQVLIKQEIQRKSGYAIQADEEQLRVQLDTIQGE
 LNAPTQFKGRNLNMQIRMQNHFGAVRSEERYIIDADLLREIKQHLKQQQEGLSHLISIIKDDLEDIKL
 VEHLNETIHIRGGVFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6611_d07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM 017426

ORF Size: 1521 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_017426.4

RefSeq Size: 2358 bp

RefSeq ORF: 1524 bp

Locus ID: 53371

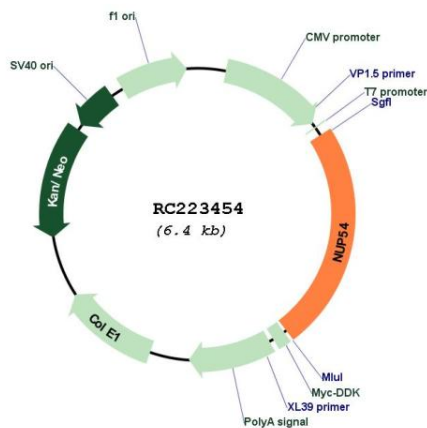
UniProt ID: [Q7Z3B4](#)

Cytogenetics: 4q21.1

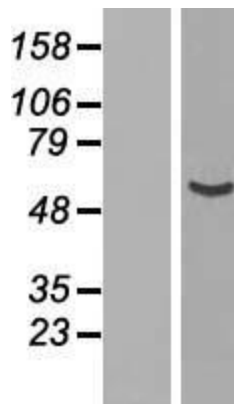
MW: 55.3 kDa

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]

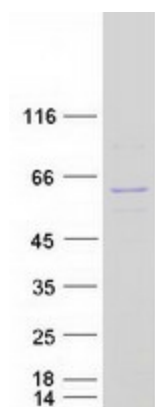
Product images:



Circular map for RC223454



Western blot validation of overexpression lysate (Cat# [LY413784]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223454 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUP54 protein (Cat# [TP323454]). The protein was produced from HEK293T cells transfected with NUP54 cDNA clone (Cat# RC223454) using MegaTran 2.0 (Cat# [TT210002]).