

Product datasheet for **RG223454**

NUP54 (NM_017426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NUP54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG223454 representing NM_017426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTTCAATTTGGGGCTCCCTCGGGCACCTCCGGTACCGCTGCAGCCACCGCGGCCCCCGGGTG
 GGTGGAGGATTTGGGACAACATCTACAAGTGCAGGTTCTGCATTGAGCTTTCTGCCCCAACTAACAC
 AGGCACTACTGGACTCTTTGGTGGTACTCAGAACAAAGGTTTGGATTTGGTACTGGTTTGGCACAACA
 ACGGGAAGTACTGGTTTAGGTACTGGTTGGGAAGTGGAGTGGGATTTGGAGGATTTAATACACAGC
 AGCAGCAGCAAACTACATTAGGTGGTCTCTCAGTCAGCCTACACAAGCTCCTACCCAGTCCAACAGCT
 GATAAATACTGCGAGTGCTCTTCTGCTCCAACGCTGTTGGGAGATGAGAGAGATGCTATTTGGCAAAA
 TGAATCAACTGCAGGCCTTTGGGGAACAGGAAAAGGATTTCAACAATAATATCCGCCAGTGAAT
 TCACACAAGAAAATCCCTTTGCCGATTTAAGGCAGTAGGTTATAGTTGCATGCCAGTAATAAAGATGA
 AGATGGGCTAGTGGTTTGTCTTCAACAAAAAGAACAGAGATTCGAAGCCAACAACAACAGTTGGTA
 GAATCATTGCATAAAGTTTGGGAGGAAACAGACCCTTACTGTAATGTAGAGGGCACTAAACATTGC
 CAGATGATCAGACAGAAGTTGTTATTTATGTTGTTGAGCGTTCCGCAAAATGGTACTTCAAGAAGATTCC
 AGCTACAACGCTATATGCCATTTTGAACAAGCCAATATAAAAACACAATTGCAGCAACTTGGTGTAAAC
 CTTTCTATGACTAGAACAGAAGTTCTCTGTCAGATCAACAGCTTTTACAGAATCCTCTGCTGGTG
 TTGATCCTATTATCTGGGAACAGGCCAAGGTAGATAACCCTGATTCTGAAAAGTTAATTCCTGTACCAAT
 GGTGGGTTTAAAGGAAGTTCTCCGAAGACTGAAGGTTCAAGATCAGATGACTAAGCAGCATCAAAACAGA
 TTAGATATCATATCTGAAGATATTAGTGAGCTACAAAAGAATCAAACTACATCTGTAGCCAAAATGCAC
 AATAACAAGAGAACTCATGGATCTTCCATAGAAGTTTACAGGTCCTAATCAAACAGGAAATCAAAG
 GAAGAGTGGTTATGCCATTGAGGCTGATGAAGAGCAGTTGCCAGTTTCAGCTGGATACGATTGAGGTGAA
 CTAATGCACTACTCAGTTCAGGGCCGACTAAATGAATTGATGTCTCAATCAGGATGCAGAATCATT
 TTGGAGCAGTCAGATCTGAAGAAAGGTTATACATAGATGCAGATCTGTTACGAGAAATCAAGCAGCATTT
 GAAACAACAACAGGAAGGCCTTAGCCATTTGATTAGCATCATTAAAGACGATCTAGAAGATATAAGCTG
 GTCGAACATGGATTGAATGAAACCATCCACATCAGAGGTGGTGTCTTAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG223454 representing NM_017426
 Red=Cloning site Green=Tags(s)

MAFNFGAPSGTSGTAAATAAPAGGFGGFGTTSTTAGSAFSSAPTNTGTTGLFGGTQNKGFSGTGFSGTT
 TGTSTGLTGLTGLTGLGFGGNTQQQQQTTLGGLFSQPTQAPTQSNQLINTASALSAPTLLGDERDAILAK
 WNQLQAFWGTGKGYFNNNIPPVEFTQENPFCRFKAVGYSCMPSNKDEDGLVVLVFNKKETEIRSQQQLV
 ESLHKVLGGNQLTVNVEGKTLPPDQTEVVIYVVERSPNGTSRRVPATTLAHFEQANIKTLQQLGVT
 LSMTRTELSPAQIKQLLQNPAGVDPIIWEQAKVDNPDSEKLIPVPMVGFKELLRLKVVQDMTKQHQTR
 LDIISEDISELQKNQTTSVAKIAQYKRKLMDSLHRTLQVLIKQEIQRKSGYAIQADEEQLRVQLDTIQGE
 LNAPTQFKGRNLNLSQIRMQNHFGAVRSEERYIIDADLLREIKQHLKQQQEGLSHLISIIKDDLEDIKL
 VEHLNETIHIRGGVFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-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.

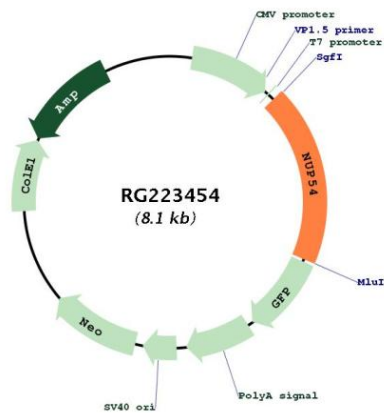
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017426.4](#)

RefSeq Size: 2358 bp
RefSeq ORF: 1524 bp
Locus ID: 53371
UniProt ID: [Q7Z3B4](#)
Cytogenetics: 4q21.1

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 RG223454