

Product datasheet for **RR213083**

Nup153 (NM_001100470) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nup153 (NM_001100470) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nup153
Synonyms: NUCZINK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213083 representing NM_001100470
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCTCAGGAGCCGGAGGCATAGGAGGGGGCGGCGGCGGCAAGATCCGGACGCGTCGTTGCCACC
 AGGGGCGCGTGAAGCCTTACCAGCAGGGGCGACCCCAACACCAGGGCATTCTTAGCAGGGTTACAGAATC
 TGTTAAGAATATTGTACCAGGGTGGCTACAGAGATACTCAACAAGAGTAAAAATGCCTGTAGCTGTTCA
 GTAAATGCAGATGAAGTTCACGTTGGCCGAAAAATAGAGAAGATGAGCGTGAGATTTATGTGGATGAGA
 ACACAAACACTGATGACGGGAGAACCACCCCTGAGCCACAGGCAAGTAAACACAGAAGAACCATCAACCAC
 CAGTACTGCTTCAAATTATCCAGATGTATTAACAAGACCTTCTCTTCATCGGAGTCATCTGAATTTCTCC
 GTGTTAGAATCCCCTGCTTGTCACTGTGAGCCATCCACGTCCTCTGCATTCCCAATCGGCAGTTCTGGAT
 TTTCCCTTGTGAAGGAGATTAAGATTCTACCTCTCAGCATGATGATAACATCTCAACTACCACTGG
 GTTCTCTCAAGAGCTTCTGAGAAAGATATAGCTGTTTCAAAGAACACTCCCTGCCACCTTTGTGGTCC
 CCCGAAGCAGAGCGTTCTCATTCACTCTACAACATACTGCCATCAGCTCCAAAAAACAGCATTCAACT
 TGTCTGCCTTTGGAACACTTCCACCTCACTTGGGAATTTCAATTCTTAAACAAGTCAACTTGGAGA
 CTCTCCTTTTTATCCTGGCAAAACAACATATGGTGGGCGAGCTGCTGCTAAGACAGAATAAAGTACGA
 AGTACACCTTACCAGGCTCCAGTTCGAAGACAGATGAAAGCCAAGCAGCTCAATGCACAGTCTTATGGTG
 TGACCAGTTCAACAGCACGGCGGATATTGCAGTCATTAGAAAAGATGTCAAGCCCTTTGCGGATGCAAA
 AAGAATTCATCTGCTGTTTCTTCTCCTCTGAATTTCTCCCTTGTAGGAGTGGGATAGATAGCACAGTT
 TTTCCAGCAAAAAAGGAAAGGTGGACTCTCAGTATCCCCTGTTCCAGAGACTAATGACCCCAAAGCCAG
 TTTCCATAGCAACAAATAGAAGTGTCTATTTAAACCATCTCTGACCCCATCTGGTGACTTAAGGAAGAC
 TAATCAAAGGATAGATAAAAAGAAGCAGTACTGTAGATGAAAAAATATCTCAAGACAAAAATAGAGAGCAA
 GAAAGTGGCTTTTCATACCCCAATTTTCAGTATTCCTGCAGCCAATGGTTTATCTTCTGGAGTAGGTGGTG
 GAGGTGCAAGATGAGAAGAGAGAGAACAACACATTTTGTGGTCTAAACCTTCAGAGGAGGAGGAAGT
 AGAAGTACCATTGTTACCGCAAATCTCTCTACCAATCAGCAGTCTTCACTGCCACCTTCAACTTATG
 TCCCTGCGATCTCGGCTGCTTCTCGTCATCAGTCAGCCCTTCTCAGCCATTATCAAACAAGGTACAGA



TGACCTCTCTGGGCAGCACAGGCAATCCCGTGTTACCTTTTCCTCTCCATTGTGAAGTCCACGCAGGC
AGACGTGTACCTCCAGCATCTATTGGATTTACGTTTAGTGTGCCTCTTGCAAAAACAGAAGCTTTCTGGC
CCTAATAGTTCTTCAGAAACAGTTTTAAGTAGTTACAGTTACAGCTCAAGATAACTGTAGTGAATAGTT
CAAGCTTAAGAAGCGAAGTGCCCTTTGTGAGGACCCTTTACACCTGCAAAAGATCTGAGAGAAGGAAG
TGTTTTAGACATTCTGAAAACGCTGGTTTCAATGTCACCAAAGGTTGATTCTCTGTCTTCAGCCCACA
ACTACAAGCTCAATAGTTTATAACAAGACCAGCAATAAGTACTTTTTCTCTAGTGGGGTTGAGTTTGGAG
AAAGTTTAAAAGCTGGATCATCATGGCAGTGTGACACATGTCTACTCCAGAACAAGTCCACAGCAATAA
GTGTATAGCCTGTCAAGCAGCAAAAAGTCCACTGAAAGAAAGTCTAAACAGACTGGAATTTGGGACACCA
AGCAAAAGTGACAAGCCAGCTTCTACATCAGGGACAGTTTTTGGAGATAAATTTAAACCAGCAATAGGAA
CTTGGGATTGTGATACCTGTTTGTGCAAAAATAAGCCTGAAGCAGTAAAATGTGTAGCCTGTGAAACACC
CAAACCTGGCACTGGTGTGAAGCGAGCCCTTCCATTGACGGTGGCTTCAGAAAGTCTGTGACTGCTTCC
TCTTCTACCACCGTGACCCTGGTACACTAGGATTTGGAGATAAATTTCAAAGGCCCGTGGGATCTTGGG
AGTGTCCGGTATGCTGTGTTTCTAATAAGGCAGAAGACAGCAGATGTGTCTCTGTACATCTGAGAAACC
AGGTTTGGTATCTGCCTCAAGCAGCAACCCTGTCCCTGTCTCTGCCTTCTGGAGGCTGTTTAGGATTG
GACAAGTTTAAAAACCAGAGGGAAGCTGGGACTGTGAAGTATGCCTAGTGCAAAAATAAGCGGACTCTA
CCAAGTGCATAGCTTGTGAAAGTGCAAAAGCCAGGCACAAAGTCTGAGTTTAAAGGCTTTGGGACATCTTC
ATCTTTAAATCCAGCACCTCAGCCTTCAAATTTGGTATTCCATCATCATCTTCTGGGCTTTCTCAAAC
TTTACAAGCACTGGAATTTTAAATTTGGAGATCAGGGAGGATTCAAATTAGGCACTTTCATCTGACTCTG
GGTCTACAACACCATGAATACAACCTTAAATTTCTAAACCAACTGGAGATTTTAAATTTGGAGTATT
ACCTGATTCAAAACCTGAAGAAATAAAAAACGACAGCAAGAATGATAATTTTTCAGTTTGGACCTTCTTCT
GGCTTAAGCAATCCAGCGTCTTCAGCTCCATTTTCAGTTTGGGGTACTACTCTTGGGCAGCAGGAAAAGA
AAGAGGAGCTGCCTCAGTCTTCATCTGCAGGCTTCAGTTTGGTGCAGGTGTGTAACCCCTCTAGTGC
TGCTATTGACACCACAGTGACCTCAGAGAACAAGAGCGGCTTCAACTTTGGAACCATAGACATAAAGT
GTCTCAGTGACTCCTTTACGTACAAGACAACAGAAGCAAGAAAGAAAGACGCGTCTGTACCAAGGGTG
GGTTCACATTTGGTAAAGTGGACTCTGTGCTTTGTCTCCTCAATGTTTGTGTTGGGAAGGACAGA
GGAGAAACAGCAAGAACCTGTTACTTCTACTTCTCTGTTATTTGGAAAGAAAGCTGACAATGAGGAGCCA
AAGTGTCAACCAGTATTTTCTTTGGAAATTCAGAGCAAAACAAAGACGAGAGTTCTCCAAGCCGACCT
TCAGTTTTCAGTGTGGCAAAACCATCTGTGAAGGAGTCTGATCAGCTGGCAAGGCTACTTTTGCATTTGG
AAATCAAACCAATACAACAACCTGATCAAGGTGCAGCAAGCCAGCTTTTAGCTTCTTGAACAGCAGTTCC
TCTAGTCAAGTACGCCGCCACTTTCATCCAGTGTAGCATATTTGGTAGTTCACCTCTTCTCCAGCC
CGCTGTGGCAGCCTTTGTGTTTGGACAGGCCAGTAATCTGTGAGCAGCTCTGCCTTCGAAACTCCGC
CGAGTCCAGTACATCTCAGCCTTTGCTCTTTCCCTCAAGATGGCAACCAGCCACCACGTCCAGCACTGCC
TCAGCTGCCCTCCATTTGTATTTGGAACAGGAGCCAGTAGTAATAGTACTGTATCTTCTGGGTTCACTT
TTGGGGCTACAACCACATCAAGCTCTTCAGGATCCTTCTTTGTATTTGGCACTGGACATTCAGCACCATC
TGCCAGTCCAGCATTTGGTGTAAACAGACTCCAACATTTGGCAAAAGTCAAGGTGCCAGCCAGCCTAAC
CCTCCAAGCTTTGGCTCTATATCGTCTTCAACAGCATTATTTCTGCTGGTTCTCAGCCTGTACCACCAC
CTACATTTGGGACAGTGTCAAGCAGCAGCAACCTCCTGTGTTTGGACAGCAGCCTAGTCACTGTGATT
TGGCTCTGGGACAGCAATGCTAGTTCGGTTTTCCAGTTTGGCAGCAGCACTACAATTTCAACTTACA
AACAAATCCATCAGGAGTGTTCACATTTGGTGAAGTCCCAGCAGCCTGCAGCCGACGCCAGCCCT
CAGGTTTCGGGGGCTTTTCAATCAGCCAGTCTCCAGCATATTTACAGTGGGGTCAAATGGGAAAAATAT
GTTCTTCTTCCGGAACCTCAGTTTTCTGGTCGAAGATAAAGACTGCTGTTAGACGCAAGAAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213083 representing NM_001100470
 Red=Cloning site Green=Tags(s)

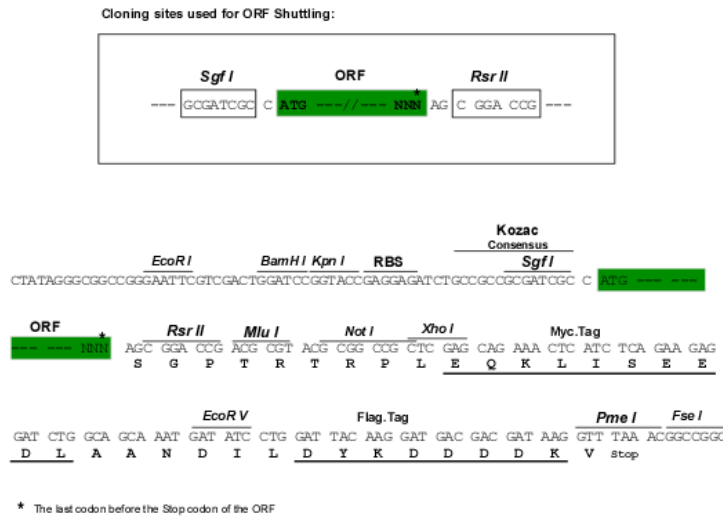
MASGAGGIGGGGGGKIRTRRCHQGPVKPYQQGRPQHQGILSRVTESVKNIIVPGWLQRYFNKSENACSCS
 VNADEVPRWPNREDEREIYVDENTNTDDGRTTPEPTGSNTEEPSTTSTASNYPDVLTRPSLHRSHLNFS
 VLESPALHCQPSTSSAFPIGSSGFSLVKEIKDSTSQHDDDNISTTSGFSSRASEKDIIVSKNTSLPLWS
 PEASRSHLSQHTAISSKKPAFNL SAFGTLSTSLGNSSILKTSQLGDSFPFYPGKTTYGGAAAARQNKVR
 STPYQAPVRRQMKAKQLNAQSYGVTSSARRILQSLEKMSPLADAKRIPSAVSSPLNSPLDRSGIDSTV
 FQAKKEKVDSSQYPPVQRLMTPKPVSIATNRTVYFKPSLTPSGDLRKTNRIDKKNSTVDEKNISRQNREQ
 ESGFSYPNFSIPAANGLSSGVGGGGGKMRRETRTHFVASKPSEEEEEVEVPLLPQISLPISSSSLPTFNFS
 SPAISAASSSSVSPSQPLSNKVQMTSLGSTGNPVFTFSSPIVKSTQADVLPPASIGFTFSVPLAKTELSG
 PNSSSETVLSSSVTAQDNTVVNSSSSKRSAPCEDPFTPAKILREGSVLDILKTPGFMSPKVDSPALQPT
 TTSSIVYTRPAISTFSSSGVEFGESLKAGSSWQCDTCLLQNKVTDNKCIAQAAKLPLKETAKQTGIGTP
 SKSDKPASTSGTGFQDKFKPAIGTWDCDCLVQNKPEAVKCVACETPKPGTGVKRALPLTVASESPVTAS
 SSTTVTGTLGFQDKFKRPVGSWEPCVCCVSNKAEDSRCVSTSEKPLVSASSSNPVPVSLPSGGCLGL
 DKFKKPEGSWDCEVCLVQNKADSTKCIACE SAKPGTKSEFKFGFTSSSLNPAPSAFKFGIPSSSSGLSQT
 FTSTGNFKFGDQGGFKLGTSSDSGSTNTMNTNFKFKPTGDFKFGVLPDSKPEEIKNDSKDNDFQFGPSS
 GLSNPASSAPFQFGVSTLGGQEKKEELPQSSSAGFSFGAGVANPSSAAIDTTVTSENKSGFNFTIDTKS
 VSVTPFTYKTEAKKEDASATKGGFTFGKVDSAAALSSPSMFVLGRTEEKQQEPVTSTSLVFGKKADNEEP
 KCQPVFSGNSEQTKDESSSKPTFSFSVAKPSVKESDQLAKATFAFGNQNTNTTDDQGAAPAFSFLNSSS
 SSSSTPATSSSASIFGSSSTSSSPPVAAFVFGQASNPVSSSAFGNSAESSTSQPLLFPQDGKPATTSSTA
 SAAPPVFGTGASSNSTVSSGFTFGATTTSSSSGFFVFGTGHAPSASPFAFGANQTPFTFGQSQASQPN
 PPSFGSISSTALF SAGSQPVPPPTFGTVSSSSQPPVFGQQPSQSAFGSGTANASSVVFQFGSSTTNFNFT
 NNNPSGVFTFGASPSTPAAAAQPSGSGGFSFSQSPASF TVGNSGKNMFSSSGTSVSGRGIKTAVRRKK

SGPTRRTRPLEQKLI SEEDLAANDILDYKDDDDKV

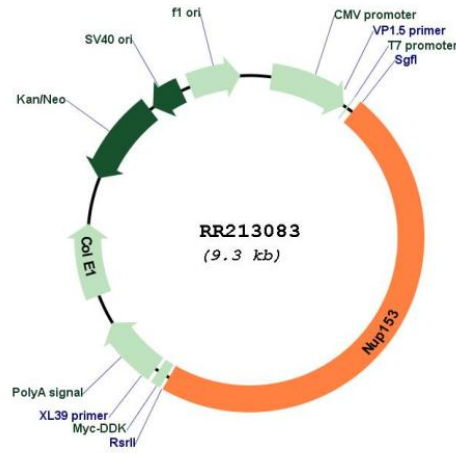
Restriction Sites:

SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100470

ORF Size: 4404 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.

RefSeq: [NM_001100470.1](#), [NP_001093940.1](#)

RefSeq Size: 6224 bp

RefSeq ORF: 4407 bp

Locus ID: 25281

Cytogenetics: 17p14

MW: 152.8 kDa

Gene Summary: nuclear pore complex protein; may act to to gate transcribable genes to nuclear pore complexes [RGD, Feb 2006]