

Product datasheet for RC240167

NUP153 (NM_001278209) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP153 (NM_001278209) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUP153
Synonyms:	HNUP153; N153
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240167 representing NM_001278209 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCTCGGGAGCCGGAGGAGTCGGAGGGGGCGGTGGCGCAAGATCCGGACGGCGGTTGCCACCAGG
GGCCAATTAAGCCTTACCAGCAGGGGCGACAACAGCATCAGGGCATTCTTAGCAGGGTTACAGAATCTGT
TAAGAATATTGTCCAGGGTGGCTACAAAGATACTTCAACAAGAATGAAGATGTATGCAGCTGTTCAACA
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CACTGCCTACCTTAAATTTAGTTCCTGAGATCACAACCTCCTCTCCATCACCCATCAATTCGTCTCA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC240167 representing NM_001278209
 Red=Cloning site Green=Tags(s)

MASGAGGVGGGGGKIRTRRCHQGPICKPYQQGRQQHQGILSRVTESVKNIVPGWLQRYFNKEDVCSCT
 DTSEVPRWPENKEDHLVYADEESSNITDGRITPEPAVSNTTEPSTTSTASNYPDVLRPSLHRSHLNFMS
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 EAERSHLSQHTATSSKKPAFNLFAFGTSLPSLGNSSILKTSQLGDSPPYPGKTTYGGAAAARQSKLRN
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 RESGFSYPNFSLPAANGLSSGVGGGGKMRRETRFVASKPLEEERQGLTVLPKLISSCAQAIIPSWPL
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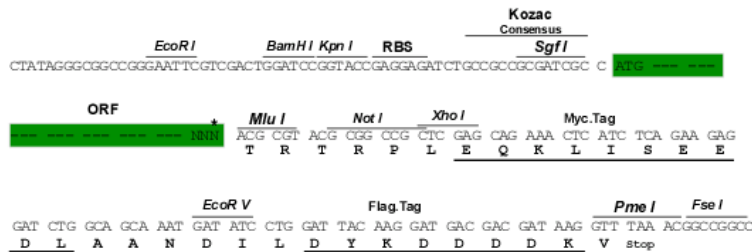
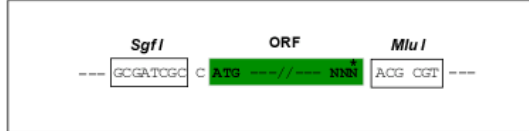
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Restriction Sites:

SgfI-MluI

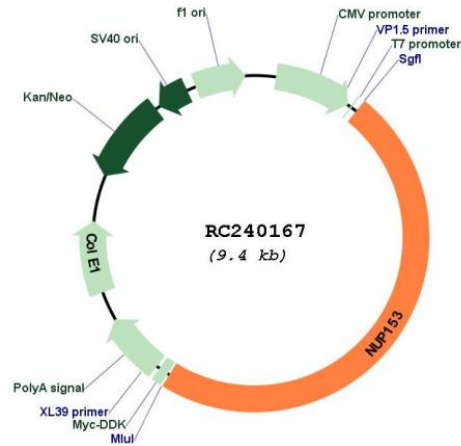
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001278209

ORF Size: 4518 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:	<ol style="list-style-type: none">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:	<u>NM_001278209.1</u> , <u>NP_001265138.1</u>
RefSeq Size:	6030 bp
RefSeq ORF:	4521 bp
Locus ID:	9972
UniProt ID:	<u>P49790</u>
Cytogenetics:	6p22.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
MW:	157.8 kDa
Gene Summary:	Nuclear pore complexes regulate the transport of macromolecules between the nucleus and cytoplasm. They are composed of at least 100 different polypeptide subunits, many of which belong to the nucleoporin family. Nucleoporins are glycoproteins found in nuclear pores and contain characteristic pentapeptide XFXFG repeats as well as O-linked N-acetylglucosamine residues oriented towards the cytoplasm. The protein encoded by this gene has three distinct domains: a N-terminal region containing a pore targeting and an RNA-binding domain domain, a central region containing multiple zinc finger motifs, and a C-terminal region containing multiple XFXFG repeats. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, May 2013]