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Product datasheet for RG208264

NUP153 (NM_005124) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUP153 (NM_005124) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUP153
Synonyms:	HNUP153; N153
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG208264 representing NM_005124
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTCGGGAGCCGGAGGAGTCGGAGGGGGCGGTGGCGGCAAGATCCGGACGCGGCGTTGCCACCAGG
GGCCAATTAAGCCTTACCAGCAGGGGCGACAACAGCATCAGGGCATTCTTAGCAGGGTTACAGAATCTGT
TAAGAATATTGTGCCAGGGTGGCTACAAAGATACTTCAACAAGAATGAAGATGTATGCAGCTGTTCAACA
GACACAAGCGAGGTTCCACGCTGGCCAGAAAATAAAGAGGACCATCTGGTATATGCCAATGAGGAGAGCT
CTAATATTACTGATGGGAGAATCACACCTGAGCCAGCAGTCAGTAATACAGAAGAACCTTCAACAACTAG
TACTGCTTCAAATTATCCAGATGTGTTAACAAGGCCTTCTCTTCATCGGAGCCATCTGAATTTTTCCATG
TTGGAATCCCCTGCATTACACTGTCAGCCATCTACATCCTCGGCATTCCCAATTGGCAGTTCGGGATTTT
CCCTTGTAAAGGAAATTAAAGATTCTACCTCTCAGCATGATGATGATAACATCTCAACTACCAGTGGTTT
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GGAAGTTCCAGTATTACCGAAAATCTCTCTACCGATCACCAGTTCTTCACTGCCTACCTTTAATTTTAGT

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TCCCCTGAGATCACAACTTCCTCTCCATCACCCATCAATTCGTCTCAAGCATTAACAAACAAGGTACAAA
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GGGGTCAAATGGGAAAAATGTGTTCTCTTCTTCTGGAACTTCATTCTCTGGTCGCAAGATAAAGACTGCT
GTTAGACGCAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>RG208264 representing NM_005124
Red=Cloning site Green=Tags(s)

MASGAGGVGGGGGGKIRTRRCHQGPIKPYQQGRQQHQGILSRVTESVKNIVPGWLQRYFNKNEDVCSCST
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LESPALHCQPSTSSAFPIGSSGFSLVKEIKDSTSQHDDDNISTTSGFSSRASDKDITVSKNTSLPPLWSP
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QAKREKVDSQYPPVQRLMTPKPVSIATNRSFYFKPSLTPSGEFRKTNQRIDNKCSTGYEKNMTPGQNREQ
RESGFSYPNFSLPAANGLSSGVGGGGGKMRRERTRFVASKPLEEEEMEVPVLPKISLPITSSSLPTFNFS
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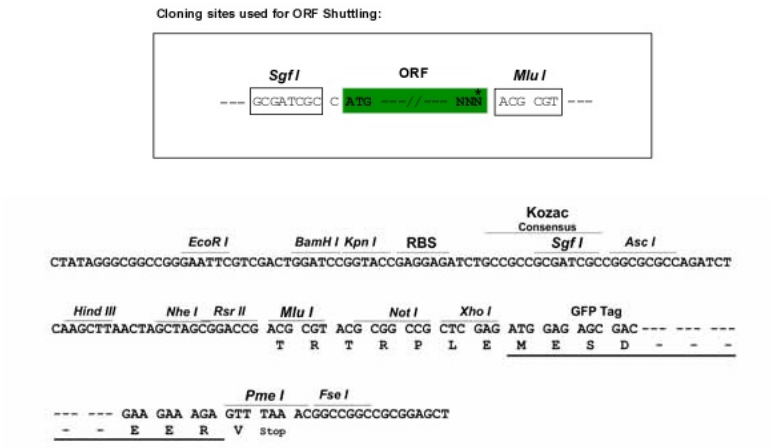
VRRRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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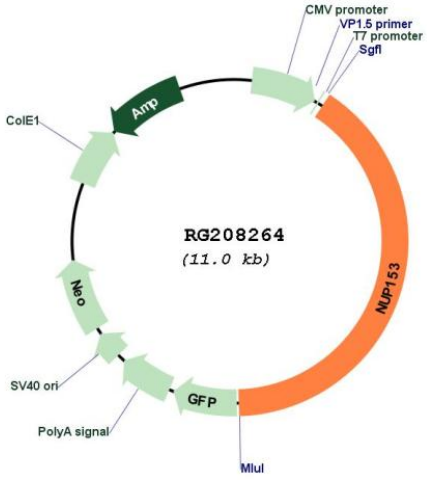
Plasmid Map:



ACCN:	NM_005124
ORF Size:	4425 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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.

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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_005124.2, NP_005115.2
RefSeq Size:	5687 bp
RefSeq ORF:	4428 bp
Locus ID:	9972
UniProt ID:	P49790
Cytogenetics:	6p22.3
Domains:	zf-RanBP
Protein Families:	Druggable Genome, Stem cell - Pluripotency
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]

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