

Product datasheet for **RG204385**

Nucleotide binding protein like (NUBPL) (NM_025152) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Nucleotide binding protein like
Synonyms:	C14orf127; hulnd1; IND1; MC1DN21
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG204385 representing NM_025152
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTTTGTGGGCCCGCAGTTGTCTGGCGCCGGGAGTGAGACCCTAAACAAAGAAGAACACAAATCATGT
CCCGAGGACTTCCAAAGCAGAAACCGATAGAAGGTGTTAAACAAGTTATAGTTGTGGCTTCTGGAAGGG
TGGAGTCGGAATCTACTACAGCAGTGAATCTTGCACTTGCACTAGCAGCGAACGATTCTGCCAAGGCC
ATTGGTTTGCTAGATGTGGATGTGTATGGACCTTCAGTTCCAAAGATGATGAATCTGAAAGGAAATCCGG
AATTACACAGAGCAACCTAATGAGGCCTCTCTGAATTATGGTATTGCTTGATGTCTATGGGCTTTCT
GGTTGAAGAAAGTGAACCAAGTAGTTTGGAGAGGCCTTATGGTAATGTGCGCCATTGAGAAATTGTTGAGG
CAGGTAGATTGGGGTCACTGGACTACTTAGTTGTAGACATGCCACCAGGAAGTGGAGATGTGCAGTTAT
CAGTCTCACAGACTATTCCTATAACAGGTGCTGTGATTGTCTCCACGCCCAGGACATCGCATTGATGGA
TGCACACAAGGGTCTGAGATGTTTCGAGAGTCCACGTGCCCGTCTTGGCCTTGTCACAAACATGAGT
GTTTTCCAGTGTCACAAATGTAACACAAAACATATTTTTGGTGCTGATGGTGCAAGGAAACTAGCAC
AGACCCTTGGTCTTGAAGTTCTAGGAGACATCCCTTACACCTTAATATAAGGGAAGCTTCAGATACAGG
CCAGCCAATTGTGTTTTCACAGCCTGAAAGTGATGAGGCCAAAGCTTACTTGAGGATTGCTGTGGAAGTG
GTAAGAAGATTGCCATCACCTTCAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG204385 representing NM_025152

Red=Cloning site Green=Tags(s)

MVCGRQLSGAGSETLKQRRRTQIMSRGLPKQKPIEGVKQVIVVASGKGGVGKSTTAVNLALALAANDSSKA
IGLLDVDVYGPSVPKMMNLKGNPELSQSNLMRPLLNYGIACMSMGFLVEESEPVVWRGLMVMSAIEKLLR
QVDWGQLDYLVDMPPTGVDQLSVSQTIPITGAVIVSTPQDIALMDAHKGAEMFRRVHVPVLGLVQNMS
VFQCPKCKHKTHIFGADGARKLAQTLGLEVLGDIPLHLNIREASDTGPQIVFSQPESDEAKAYLRIAVEV
VRRLPSPSE

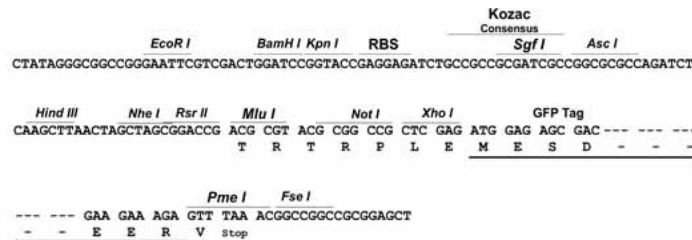
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:

NM_025152

ORF Size:

867 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_025152.2](#), [NP_079428.2](#)

RefSeq Size: 3072 bp

RefSeq ORF: 960 bp

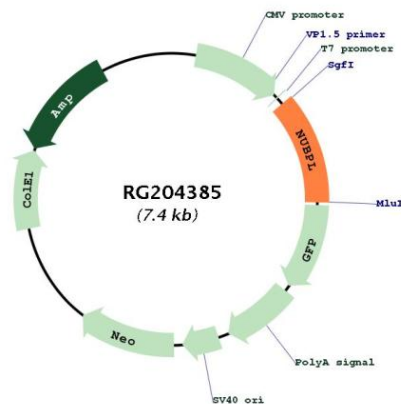
Locus ID: 80224

UniProt ID: [Q8TB37](#)

Cytogenetics: 14q12

Gene Summary: This gene encodes a member of the Mrp/NBP35 ATP-binding proteins family. The encoded protein is required for the assembly of the respiratory chain NADH dehydrogenase (complex I), an oligomeric enzymatic complex located in the inner mitochondrial membrane. Mutations in this gene cause mitochondrial complex I deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Product images:



Circular map for RG204385