

Product datasheet for **RG237311**

C5ORF33 (NADK2) (NM_001287341) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | C5ORF33 (NADK2) (NM_001287341) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | C5ORF33 |
| Synonyms: | C5orf33; DECRD; MNADK; NADKD1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG237311 representing NM_001287341. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCTGGCAGCGAGTAAAGTCTTGACAGACTTAAACCAGTTATAGGGGTAAACACTGATCCAGAA
CGGTCTGAGGGTCATTTATGCCTGCCGTTTCGATATACACATTCCTTCCAGAAGCCTTACAGAAGTTC
TATCGTGGTGAGTTCAGGTGGTGTGGAGGCAGAGAATCAGGTTATACCTTGAAGGGACTGGCATAAAC
CCTGTACCTGTGGACCTCAGGAGCAGCAGCTAAGCTTGAATCAGCACAATAGAGCCCTAACATTGAA
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TCCTCAAAGGTTTGTGTTTCGTTCTCGTTGTTGGGATGCCTGTATGGTTGTGGATGGAGGAAGTCTTTT
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GAACAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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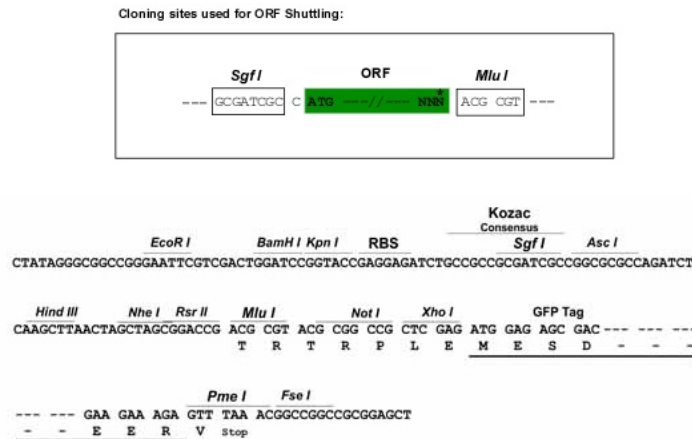
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237311
 Blue=ORF Red=Cloning site Green=Tag(s)

MLLAASKVLDRCLKPVIGVNTDPERSEGLCLPVRVYTHSFPEALQKFYRGEFRWLWRQIRLYLEGTGIN
 PVPVDLHEQQLSLNQHNRLNIERAHDSEASGPQLLPVRLNEVFIGESLSSRMSYSWAVAVDNLRR
 SIPTLKGSLASYEISVDDGPWEKQKSSGLNLCTGTGSKAWSFNINRVATQAVEDVLI AKRQGNLSLPL
 NRELVEKVTNEYNESLLYSPEEPKILFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMVVDGGTSF
 EFNDGAIASMMINKEDELRTVLLLEQ
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001287341

ORF Size: 903 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).

RefSeq: [NM_001287341.1](#), [NP_001274270.1](#)

RefSeq Size: 3847 bp

RefSeq ORF: 906 bp

Locus ID: 133686

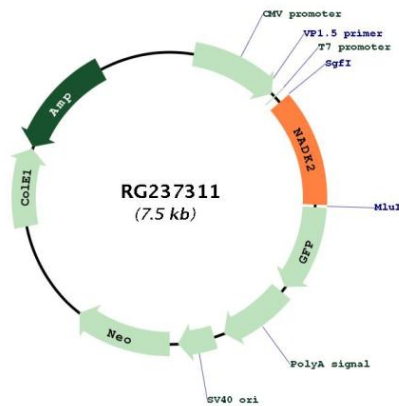
UniProt ID: [Q4G0N4](#)

Cytogenetics: 5p13.2

MW: 34.6 kDa

Gene Summary: This gene encodes a mitochondrial kinase that catalyzes the phosphorylation of NAD to yield NADP. Mutations in this gene result in 2,4-dienoyl-CoA reductase deficiency. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RG237311