

Product datasheet for **RG208997**

C5ORF33 (NADK2) (NM_153013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C5ORF33 (NADK2) (NM_153013) 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:	>RG208997 representing NM_153013 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGGCAGCGAGTAAAGTCTTGGACAGACTTAAACCAGTTATAGGGGTAACACTGATCCAGAAC
GGTCTGAGGGTCATTTATGCCTGCCGTTTCGATATACACATTCCTTTCCAGAAGCCTTACAGAAGTTCTA
TCGTGGTGAAGTTCAGGTGGTTGTGGAGGCAGAGAATCAGGTTATACCTTGAAGGGACTGGCATAAACCC
GTACCTGTGGACCTTACGAGCAGCAGCTAAGCTTGAATCAGACAATAGAGCCCTTAACATTGAAAGAG
CTCATGATGAAAGTCTGAGGCTTCAGGACCCCACTTCTGCCAGTGAGAGCACTAAATGAAGTCTTCAT
TGGGGAGAGTCTGTCATCCAGGGCTTCTACTATGAGATTTTCAGTTGATGATGGTCCATGGGAAAAACAG
AAGAGTTCAGGGCTCAATTTGTGTACTGGAACAGGATCAAGGCCTGGTCAATATTAACAGGGTTG
CAACTCAGGCTGTAGAAGATGTTTTAAATATTGCAAAACGACAAGGAAATTTGAGTCTTCCATTGAACAG
AGAATTGGTAGAGAAAGTAACAAATGAATATAATGAATCACTGCTCTACAGTCCGGAAGAACCAAAAATA
CTTTTCAGTATTCGAGAACCAATAGCAAATAGAGTTTTCTCAAGCAGTCGTCAGCGTTGTTTTCTCTCAA
AGGTTTGTGTTTCGTTCTCGTTGTTGGGATGCCTGTATGGTTGTGGATGGAGGAACCTCTTTTGAGTTAA
TGATGGTGCAATTGCTTCGATGATGATCAATAAAGAAGATGAGCTTCAACTGTGCTTCTTGAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208997 representing NM_153013
 Red=Cloning site Green=Tags(s)

MLLAASKVLDRLKPVIGVNTDPERSEGLCLPVRVYTHSFPEALQKFYRGEFRWLWRQRIRLYLEGTGINP
 VPVDLHEQQLSLNQHNRLNIERAHDERSEASGPQLLPVRALNEVFIGESLSSRASYYEISVDDGPWEKQ
 KSSGLNLCTGTGSKAWSFNINRVATQAVEDVLNIAKRQGNLSLPLNRELVEKVTNEYNESLLYSPEEPKI
 LFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMVVDGGTSEFENDGAIASMMINKEDELRTVLLLEQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153013

ORF Size: 837 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_153013.4](#)

RefSeq Size: 2580 bp

RefSeq ORF: 840 bp

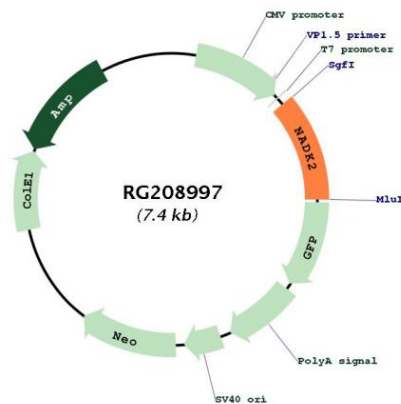
Locus ID: 133686

UniProt ID: [Q4G0N4](#)

Cytogenetics: 5p13.2

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 RG208997