

Product datasheet for RC208997

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:	Myc-DDK
Symbol:	C5ORF33
Synonyms:	C5orf33; DECRD; MNADK; NADKD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208997 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGGCAGCGAGTAAAGTCTTGGACAGACTTAAACCAGTTATAGGGGTAACACTGATCCAGAAC
GGTCTGAGGGTCATTTATGCCTGCCCGTTCGATATACACATTCCTTTCCAGAAGCCTTACAGAAGTTCTA
TCGTGGTGAGTTCAGGTGGTTGTGGAGGCAGAGAATCAGGTTATACCTTGAAGGGACTGGCATAAACCCCT
GTACCTGTGGACCTTCACGAGCAGCAGCTAAGCTTGAATCAGACAATAGAGCCCTTAACATTGAAAGAG
CTCATGATGAAAGGTCTGAGGCTTCAGGACCCCACTTCTGCCAGTGAGAGCACTAAATGAAGTCTTCAT
TGGGGAGAGTCTGTCATCCAGGGCTTCCTACTATGAGATTTAGTTGATGATGGTCCATGGGAAAAACAG
AAGAGTTCAGGGCTCAATTTGTGTACTGGAACAGGATCAAGGCCTGGTCATTCAATATTAACAGGGTTG
CAACTCAGGCTGTAGAAGATGTTTTAAATATTGCAAAACGACAAGGAAATTTGAGTCTTCCATTGAACAG
AGAATTGGTAGAGAAAGTAACAAATGAATATAATGAATCACTGCTCTACAGTCCGGAAGAACCAAAAATA
CTTTTCAGTATTCGAGAACCAATAGCAATAGAGTTTTCTCAAGCAGTCGTCAGCGTTGTTTCTCCTCAA
AGGTTTGTGTTTCGTTCTCGTTGTTGGGATGCCTGTATGTTGTGGATGGAGGAACCTCTTTGAGTTTAA
TGATGGTGCAATTGCTTCGATGATGATCAATAAAGAAGATGAGCTTCAACTGTGCTTCTTGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208997 protein sequence
Red=Cloning site Green=Tags(s)

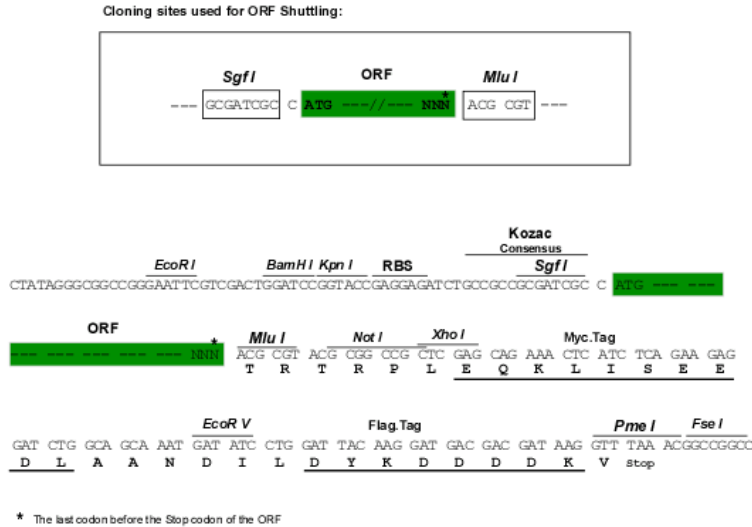
MLLAASKVLDRCLKPVIGVNTDPERSEGHLC LPVRYTHSFPEALQK FYRGEFRWLWRQRI RLYLEGTGINP
 VPVDLHEQQLSLNQHN RALNIERAHD ERSEASGPQLLPVRALNEVFIGESLSSRASY YEISVDDGPWEKQ
 KSSGLNLCTGTGSKAW SFNINRVATQAV EDV LNI AKRQGNLSLPLNRELVEKVTNEYNESLLYSPEE PKI
 LFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMVVDGGT SFEFNDGAIASMMINKEDELR TVLLEQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6354_b07.zip

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: 3781 bp

RefSeq ORF: 840 bp

Locus ID: 133686

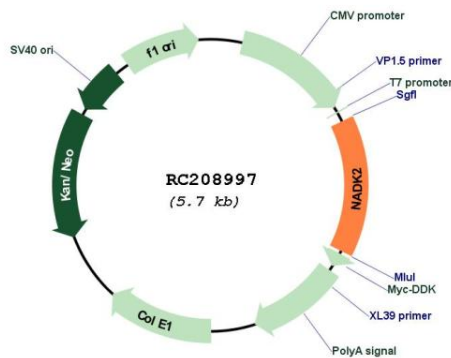
UniProt ID: [Q4G0N4](#)

Cytogenetics: 5p13.2

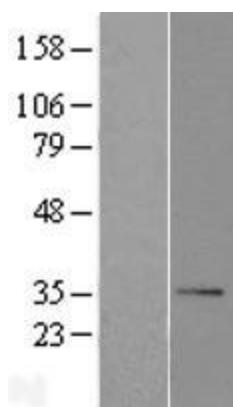
MW: 31.7 kDa

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 RC208997



Western blot validation of overexpression lysate (Cat# [LY407195]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208997 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).