

Product datasheet for **RC237124**

C5ORF33 (NADK2) (NM_001287340) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C5ORF33 (NADK2) (NM_001287340) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NADK2
Synonyms:	C5orf33; DECRD; MNADK; NADKD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237124 representing NM_001287340 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGCTGGCAGCGAGTAAAGTCTTGGACAGACTTAAACCAGTTATAGGGGTAACACTGATCCAGAAC
GGTCTGAGGGTCATTTATGCCTGCCGTTTCGATATACACATTCCTTTCCAGAAGCCTTACAGAAGTTCTA
TCGTGGTGAAGTTCAGGTGTTGTGGAGGCAGAGAATCAGGTTATACCTTGAAGGGACTGGCATAAACCCCT
GTACCTGTGGACCTTACGAGCAGCAGCTAAGCTTGAATCAGCACAATAGAGCCCTTAACATTGAAAGAG
CTCATGATGAAAGGTCTGAGGCTTCAGGACCCCACTTCTGCCAGTGAGAGCACTAAATGAAGTCTTCAT
TGGGGAGAGTCTGTATCCAGGGCTTCTACTATGAGATTTAGTTGATGATGGTCCATGGGAAAAACAG
AAGAGTTCAGGGCTCAATTTGTGTACTGGAACAGGATCAAAGGCCTGGTCATTCAATATTAACAGGGTTG
CAACTCAGGCTGTAGAAGATGTTTTAAATATTGCAAAACGACAAGGAAATTTGAGTCTTCCATTGAACAG
AGAATTTGGTAGAGAAAGTAACAAATGAATATAATGAATCACTGCTCTACAGTCCGGAAGAACCAAAAATA
CTTTTCAGTATTCGAGAACCAATAGCAAATAGAGTTTTCTCAAGCAGTCGTCAGCGTTGTTTCTCCTCAA
AGGTTTGTGTTTCGTTCTCGTTGTTGGGATGCCTGTATGTTGTGGATGGAGGAACCTCTTTTGGATTTAA
TGATGGTCAATTGCTTCGATGATGATCAATAAAGAAGATGAGCTTCAACTGTGCTTCTTGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237124 representing NM_001287340
Red=Cloning site Green=Tags(s)

MLLAASKVLDRLKPVIGVNTDPERSEGLCLPVRVYTHSFPEALQKFYRGEFRWLWRQRIRLYLEGTGINP
 VPVDLHEQQLSLNQHNRLNIERAHDERSEASGPQLLPVRALNEVFIGESLSSRASYYEISVDDGPWEKQ
 KSSGLNLCTGTGSKAWSFNINRVATQAVEDVLNIAKRQGNLSLPLNRELVEKVTNEYNESLLYSPEEPKI
 LFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMVVDGGTSFEFNDGAIASMMINKEDELRTVLLLEQ

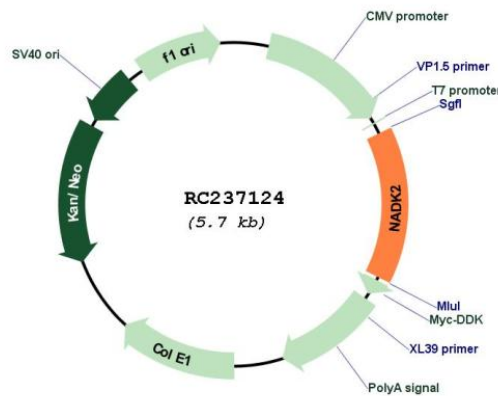
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287340

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:	<ol style="list-style-type: none">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_001287340.1 , NP_001274269.1
RefSeq Size:	3630 bp
RefSeq ORF:	840 bp
Locus ID:	133686
UniProt ID:	Q4G0N4
Cytogenetics:	5p13.2
MW:	32.2 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]