

Product datasheet for **RC234126**

NADK (NM_001198993) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NADK (NM_001198993) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NADK
Synonyms:	dj283E3.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234126 representing NM_001198993
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGGAACAAGAAAAATGACCATGAATAAGGAATTGAGTCCAGACGCGGCTGCTTACTGCTGCT
 CGGCTGCCACGCGGATGAGACCTGGAGTTACAACCACCCATCCGGGGCCGGGCAAGTCTCGCAGCCT
 GTCTGCCTCGCCCGCCTGGGGAGCACCAAGGAGTTCAGGAGGACACGCTCTCTTCATGGCCATGCCCG
 GTGACCACTTTTGGACAAAGGCCTGTGTGCTGCAGAACCCAGACCATCATGCACATTAGGACCCCG
 CGAGCCAGCGGCTGACGTGGAACAAGTCCCAAAGAGCGTCTTGTTCATCAAGAAGATGAGAGATGCCAG
 CCTACTGCAGCCGTTCAAGGAGCTCTGCACGCACCTCATGGAGGAGAATGATCGTGTATGTGGAAAAAG
 AAAGTGTAGAAGACCTGCCATCGCCAGCGATGAAAGCTTTGGGCAGTGAAGAAGAAATTCTGTACCT
 TTCGAGAAGATTATGATGACATTTCCAATCAGATAGACTTCATCATCTGCCTGGGGGAGACGGGACGCT
 GCTGTACGCTTCTCGCTTTCCAGGGCAGCGTCCCTCCGGTCATGGCCTTCCACCTGGGCTCCCTGGGC
 TTCTGACCCCATTCAGCTTTGAGAACTTTCAGTCCCAAGTACTCAGGTGATAGAGGGGAAACGCAGCTG
 TTGTTCTCCGGAGTCGGCTGAAGGTCAGGGTGGTGAAGGAGCTCCGGGGGAAAGACGGCCGTGCACAA
 TGGGCTGGGTGAGAAAGGCTCGCAGGCTGCAGGCTGGACATGGATGTCGGGAAGCAGGCCATGCAGTAC
 CAGGCTCTGAATGAGGTGGTATTGACAGAGGCCCTCCTCCTACCTGTCCAATGTGGATGTCTACCTGG
 ACGGACACCTCATACCACGGTGCAGGGCGACGGAGTGATCGTGTCCACCCGACGGGCAGCACGGCGTA
 TGCGGCCGCGCCGGGCTCCATGATCCACCCCAACGTGCCGGCCATCATGATCACGCCATCTGCCCC
 CACTCGCTGTCTTCCGGCCCATCGTGGTCCCCGAGGGTTCGAGCTGAAGATCATGCTGTACCTGAAG
 CAAGGAACACAGCATGGGTGTCTTTGATGGACGGAAGAGACAAGAGATCCGCCATGGAGACCATCAG
 CATCACTACCTCATGCTACCCGCTCCCTCCATCTGTGTGCGGGACCCGTGAGCGACTGGTTTGAGAGC
 CTCGCCAGTGCCTGCATTGGAACGTCGGAAGAAGCAAGCCACTTCGAGGAGGAGGAGGAGGAGGAGG
 AGGAGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234126 representing NM_001198993
 Red=Cloning site Green=Tags(s)

MEMEQEKMTMNKELSPDAAAYCCSACHGDETSYNHPIRGRAKSRSLSASPALGSTKEFRRTRSLHGPCP
 VTTFGPKACVLQNPQIMHIQDPASQRLTWNKSPKSVLVIKKMRDASLLQPFKELCTHLMENMIVYVEK
 KVLDPAIASDESFGAVKKKFTFREDYDDISNQIDFIICLGGDGLLYASSLFQGSVPPVMAFHLSLG
 FLTPFSFENFQSQVTQVIEGNAAVLRSRLKVRVVKELRGKKTAVHNLGEGKSQAAGLMDVKGQAMQY
 QVLNEVVIDRGPSSYLSNVDVYLDGHLITTVQDGVIVSTPTGSTAYAAAAGASMIHPNVPAIMITPICP
 HSLSFRPIVVPAGVELKIMLSPEARNTAWVSFDGRKRQEIIRHGDSISITTSYPLPSICVRDPVSDWFES
 LAQCLHWNVRKKQAHFEVEEEEEEEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6278_d09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001198993

ORF Size: 1338 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_001198993.1](#), [NP_001185922.1](#)

RefSeq Size: 3175 bp

RefSeq ORF: 1341 bp

Locus ID: 65220

UniProt ID: [O95544](#)

Cytogenetics: 1p36.33

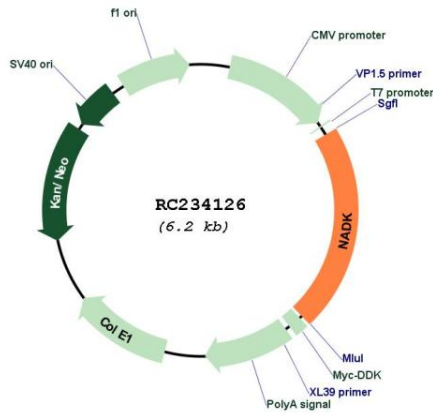
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism

MW: 49.2 kDa

Gene Summary: NADK catalyzes the transfer of a phosphate group from ATP to NAD to generate NADP, which in its reduced form acts as an electron donor for biosynthetic reactions (Lerner et al., 2001 [PubMed 11594753]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC234126