

Product datasheet for **RC231328**

NADK (NM_001198994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NADK (NM_001198994) 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:

>RC231328 representing NM_001198994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGGAACAAGAAAAATGACCATGAATAAGGAATTGAGTCCAGACGCGGCTGCTTACTGCTGCT
 CGGCTGCCACGGCGATGAGACCTGGAGTTACAACCACCCCATCCGGGGCCGGGCAAGTCTCGCAGCCT
 GTCTGCCTCGCCCGCCTGGGGAGCACCAAGGAGTTCAGGAGGACACGCTCTCTTCATGGCCATGCCCG
 GTGACCACTTTTGGACCAAAGGCCTGTGTGCTGCAGAACCCAGACCATCATAGCCACTCCTTTGTAC
 TCGCATCTCAGCTGCTGCCTTACCAGCCGTCAGTCACTCGGGCCAGGGCGGGTACCAGGACAGGTGCA
 TGTTCTGCCTCAGCCCTCAGACCAGGGCTACTCAGTGGTCCCGAGCTGCCAGGCCAGACAGCCCCG
 CAGGAGGAAGCGGTGACCAGGAAGAGGTGAGGGCGTGGTTTGGTACACACAGCGGTGGTGCCTG
 GGCCGGTGTACGACGCCGCTGCTGGTGGCTCTGGCTGGGCTCAGCTGAGCCTCAGGGCTGGAATGGTGT
 AGGCCAGGCCACTGGGCACATTCAGGACCCCGCAGCCAGCGGCTGACGTGGAACAAGTCCCAAAGAGC
 GTCTTGTTCATCAAGAAGATGAGAGATGCCAGCCTACTGCAGCCGTTCAAGGAGCTCTGCACGCACCTCA
 TGGAGGCACGCGGGCAGGGGGGAAGGGGGCTGGGGTGACATGGAGTTGGGGGGCTCCATCCACAT
 CACCGCCCGAGGGTGGGGTCTGCAGGTGGAATGAGCAGGTTGGCACTTTGCTTCCAGGAGAATGATC
 GTGTATGTGAAAAGAAAGTGTAGAAGACCCTGCCATCGCCAGCGATGAAAAGCTTTGGGACAGTGAAGA
 AGAAATTTGTACCTTTCGAGAAGATTATGATGACATTTCCAATCAGATAGACTTCATCATCTGCCTGGG
 GGGAGACGGGACGCTGCTGTACGCTTCTCGCTTTTCCAGGGCAGCGTCCCTCCGGTTCATGGCCTCCAC
 CTGGGCTCCCTGGGCTTCTGACCCATTACGCTTTGAGAATTTCAAGTCCCAAGTTACTCAGGTGATAG
 AGGGGAACGCAGCTGTTGTTCTCCGGAGTCGGCTGAAGGTGAGTGAAGGAGCTCCGGGGGAAGAA
 GACGGCCGTGCACAATGGGCTGGGTGAGAAGCGCTCGCAGGCTGCAGGCCCTGGACATGGATGTCGGGAAG
 CAGGCCATGCAGTACCAGGTCCTGAATGAGGTGGTATTGACAGAGGCCCTCCTCTACCTGTCCAATG
 TGGATGTCTACCTGGACGGACACCTCATACCACGGTGCAGGGCAGCGAGTGATCGTGTCCACCCCGAC
 GGGCAGCACGGGTATGCGGCCGCGCCGGGGCTCCATGATCCACCCCAACGTGCCGGCCATCATGATC
 ACGCCATCTGCCCCACTCGTGTCTTCCGGCCATCGTGGTCCCGCAGGGTTCGAGCTGAAGATCA
 TGCTGTCACTGAAGCAAGGAACACAGCATGGGTGTCCTTTGATGGACGGAAGAGACAAGAGATCCGCCA
 TGGAGACAGCATCAGCATCACTACCTCATGCTACCCGCTCCCTCCATCTGTGTGCGGGACCCCGTGA
 GACTGGTTTGTAGAGCCTCGCCAGTGCCTGCATTGGAACGTCCGGAAGAAGCAAGCCACTTCGAGGAGG
 AGGAGGAGGAGGAGGAGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231328 representing NM_001198994
 Red=Cloning site Green=Tags(s)

MEMEQEKMTMNKELSPDAAAYCCSACHGDETWSYNHPIRGRAKSRSLSASPALGSTKEFRRTRSLHGPCP
 VTTFGPKACVLQNPQTIIATPLSLASQLLSPAVSHSGQGGVTGQVHVLQPSPDQGVLSGPRAARGQTAP
 QEEAVTQEEVEALVCGHTQRWVPGPVYDAAAGSGWAQLSLRAGMGVQATGHIQDPASQRLTWNKSPKS
 VLVIKKMRDASLLQPFKELCTHLMARGAGGKGAWGAHVGGASIHITAPRVGSAGGMSRLALCFQENMI
 VYVEKKVLEDPAIASDESFGAVKKKFCRFREYDDISNQIDFIICLGGDGTLLYASSLFQGSVPPVMAFH
 LGSLGFLTPFSFENFQSQVTQVIEGNAAVVLRSLKVRVVKELRGKKTAVHNLGGENGSQAAGLDMVDVGK
 QAMQYQVLENEVIDRGPSSYLSNVDVYLDGHLITTVQGDGIVIVSTPTGSTAYAAAAGASMIHPNPAIMI
 TPICPHLSFRPIVVPAGVELKIMLSPEARNTAWVSFDGRKRQEIIRHGDSISITTSYPLPSICVRDPVS
 DWFESLAQCLHWNVRKKQAHFEVEEEEEEEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001198994

ORF Size: 1773 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_001198994.2](#)

RefSeq ORF: 1776 bp

Locus ID: 65220

UniProt ID: [O95544](#)

Cytogenetics: 1p36.33

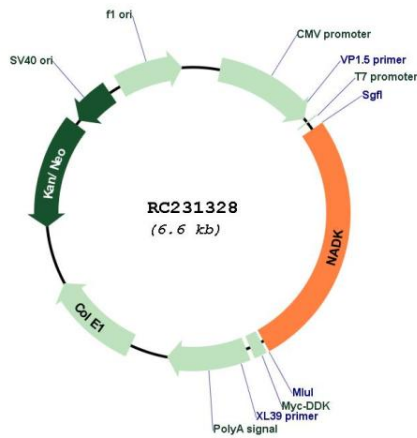
Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism

MW: 63.9 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 RC231328