

Product datasheet for **RG231328**

NADK (NM_001198994) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NADK (NM_001198994) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NADK
Synonyms:	dJ283E3.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG231328 representing NM_001198994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGGAACAAGAAAAATGACCATGAATAAGGAATTGAGTCCAGACGCGGCTGCTTACTGCTGCT
 CGGCCTGCCACGCGGATGAGACCTGGAGTTACAACCACCCATCCGGGGCCGGGCAAGTCTCGCAGCCT
 GTCTGCCTCGCCCGCCCTGGGGAGCACCAAGGAGTTCAGGAGGACACGCTCTCTTCATGGCCATGCCCCG
 GTGACCACTTTTGGACCAAAGGCCTGTGTGCTGCAGAACCCCCAGACCATCATAGCCACTCCTTTGTAC
 TCGCATCTCAGCTGCTGCCTTACCAGCCGTCAGTCACTCGGGCCAGGGCGGGGTACCGGACAGGTGCA
 TGTTCTGCCTCAGCCCTCAGACCAGGGCTACTCAGTGGTCCCCGAGCTGCCCGAGGCCAGACAGCCCCG
 CAGGAGGAAGCGGTGACCAGGAAGAGGTGAGGCGCTGGTTTGGTACACACAGCGGTGGTGCCTG
 GGCCGGTGTACGACGCCGCTGCTGGTGGCTCTGGCTGGGCTCAGCTGAGCCTCAGGGCTGGAATGGTGT
 AGGCCAGGCCACTGGGCACATTCAGGACCCCGCAGCCAGCGGCTGACGTGGAACAAGTCCCAAAGAGC
 GTCTTGTTCATCAAGAAGATGAGAGATGCCAGCCTACTGCAGCCGTTCAAGGAGCTCTGCACGCACCTCA
 TGGAGGCACGCGGGCAGGGGGGAAGGGGGCTGGGGTGACATGGAGTTGGGGGGGCTCCATCCACAT
 CACCGCCCCGAGGGTGGGGTCTGCAGGTGGAATGAGCAGGTTGGCACTTTGCTTCCAGGAGAATGATC
 GTGTATGTGAAAAGAAAGTGTAGAAGACCCTGCCATCGCCAGCGATGAAAAGCTTTGGGGCAGTGAAGA
 AGAAATTTCTGTACCTTTCGAGAAGATTATGATGACATTTCCAATCAGATAGACTTCATCATCTGCCTGGG
 GGGAGACGGGACGCTGCTGTACGCTTCTCGCTTTTCCAGGGCAGCGTCCCTCCGGTTCATGGCCTCCAC
 CTGGGCTCCCTGGGCTTCTGACCCATTACGCTTTGAGAATTTCAAGTCCCAAGTTACTCAGGTGATAG
 AGGGGAACGCAGCTGTTGTTCTCCGGAGTCGGCTGAAGGTGAGGTGGTGAAGGAGCTCCGGGGGAAGAA
 GACGGCCGTGCACAATGGGCTGGGTGAGAACGGCTCGCAGGCTGCAGGCCCTGGACATGGATGTCCGGGAAG
 CAGGCCATGCAGTACCAGGTCCTGAATGAGGTGGTATTGACAGAGGCCCTCCTCTACCTGTCCAATG
 TGGATGTCTACCTGGACGGACACCTCATACCACGGTGCAGGGCAGCGAGTGATCGTGTCCACCCCGAC
 GGGCAGCACGGGTATGCGGCCGCGCCGGGGCTCCATGATCCACCCCAACGTGCCGCCATCATGATC
 ACGCCATCTGCCCCACTCGTGTCTTCCGGCCATCGTGGTCCCCGAGGGGTCGAGCTGAAGATCA
 TGCTGTCACTGAAGCAAGGAACACAGCATGGGTGTCTTTGATGGACGGAAGAGACAAGAGATCCGCCA
 TGGAGACAGCATCAGCATCACTACCTCATGCTACCCGCTCCCCTCATCTGTGTGCGGGACCCCGTGA
 GACTGGTTTGTAGAGCCTCGCCAGTGCCTGCATTGGAACGTCCGGAAGAAGCAAGCCACTTCGAGGAGG
 AGGAGGAGGAGGAGGAGGAGGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG231328 representing NM_001198994
 Red=Cloning site Green=Tags(s)

MEMEQEKMTMNKELSPDAAAYCCSACHGDETWSYNHPIRGRAKSRSLSASPALGSTKEFRRTRSLHGPCP
 VTFPGPKACVLPNPQTIIATPLSLASQLLPSPAVSHSQGGVGTQVHVLPQPSDQGVLSGPRAARGQTAP
 QEEAVTQEEVEALVCGHTQRWVPGPVYDAAAGGSGWAQLSLRAGMGVQATGHIQDPASQRLTWNKSPKS
 VLVIKMRDASLLQPFKELCTHLMARGAGGKGAWGAHGVGGASIHITAPRVGSAGGMSRLALCFQENMI
 VYVEKKVLEDPAIASDESFGAVKKKFTFREDYDDISNQIDFIICLGGDGLLYASSLFQGSVPPVMAFH
 LGSLGFLTPFSFENFQSQVTQVIEGNAAVVLRSLKVRVVKELRGKKTAVHNLGENGSAAGLDMVDVGK
 QAMQYQVLNEVVIDRGPSSYLSNVVYLDGHLITTVQGDGIVSTPTGSTAYAAAAGASMIHPNVPAIMI
 TPICPHLSFRPIVVPAGVELKIMLSPEARNTAWVSFDGRKRQEI RHGDSISITTSYPLPSICVRDPVS
 DWFESLAQCLHWNVRKKQAHFEVEEEEEEEG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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 Size: 3662 bp

RefSeq ORF: 1776 bp

Locus ID: 65220

UniProt ID: [O95544](#)

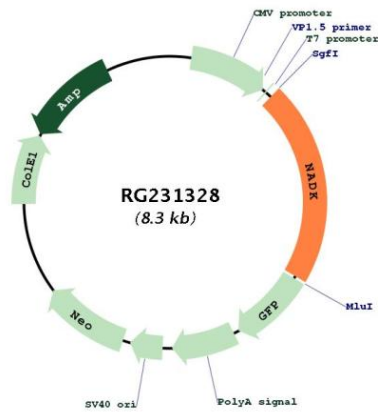
Cytogenetics: 1p36.33

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism

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 RG231328