

Product datasheet for **RG200544**

NADK (NM_023018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NADK (NM_023018) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG200544 representing NM_023018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAATGGAACAAGAAAAATGACCATGAATAAGGAATTGAGTCCAGACGCGGCTGCTTACTGCTGCT
 CGGCCTGCCACGGCGATGAGACCTGGAGTTACAACCACCCATCCGGGGCCGGGCAAGTCTCGCAGCCT
 GTCTGCCTCGCCCGCCCTGGGGAGCACCAAGGAGTTCAGGAGGACACGCTCTCTTCATGGCCATGCCCG
 GTGACCACTTTTGGACCAAAGGCCTGTGTGCTGCAGAACCCAGACCATCATGCACATTCAGGACCCCG
 CGAGCCAGCGGCTGACGTGGAACAAGTCCCAAGAGCGTCCCTTGTATCAAGAAGATGAGAGATGCCAG
 CCTACTGCAGCCGTTCAAGGAGCTCTGCACGCACCTCATGGAGGAGAACATGATCGTGTATGTGAAAAG
 AAAGTGTAGAAGACCCTGCCATCGCCAGCGATGAAAGCTTTGGGCGAGTGAAGAAGAAATTCTGTACCT
 TTCGAGAAGATTATGATGACATTTCCAATCAGATAGACTTCATCATCTGCCTGGGGGAGACGGGACGCT
 GCTGTACGCTTCTCGCTTTTCCAGGGCAGCGTCCCTCCGGTCATGGCCTTCCACCTGGGCTCCCTGGGC
 TTCTGAGCCCATTCAGCTTTGAGAACTTTCAGTCCCAAGTACTCAGGTGATAGAGGGGAACGCAGCTG
 TTGTTCTCCGGAGTCGGCTGAAGGTCAGGGTGGTGAAGGAGCTCCGGGGGAAGAAGACGGCCGTGCACAA
 TGGGCTGGGTGAGAAAGGCTCGCAGGCTGCAGGCTGGACATGGATGTCGGGAAGCAGGCCATGCAGTAC
 CAGGTCCTGAATGAGGTGGTATTGACAGAGGCCCTCCTCCTACCTGTCCAATGTGGATGTCTACCTGG
 ACGGACACCTCATCACCAGGTGCAGGGCGACGGAGTGATCGTGTCCACCCGACGGGCAGCACGGCGTA
 TGCGGCCCGCGCCGGGCTCCATGATCCACCCCAACGTGCCGGCCATCATGATCACGCCATCTGCCCC
 CACTCGCTGTCTTCCGGCCCATCGTGGTCCCCGAGGGTTCGAGCTGAAGATCATGCTGTACCTGAAG
 CAAGGAACACAGCATGGGTGTCTTTGATGGACGGAAGAGACAAGAGATCCGCCATGGAGACAGCATCAG
 CATCACTACCTCATGCTACCCGCTCCCTCCATCTGTGTGCGGGACCCCGTGAAGCGACTGGTTTGAAGAGC
 CTCGCCAGTGCCTGCATTGGAACGTCCGGAAGAAGCAAGCCACTTCGAGGAGGAGGAGGAGGAGGAGG
 AGGAGGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200544 representing NM_023018
 Red=Cloning site Green=Tags(s)

MEMEQEKMTMNKELSPDAAAYCCSACHGDETWSYNHPIRGRAKSRSLSASPALGSTKEFRRTRSLHGPCP
 VTTFGPKACVLQNPQTIMHIQDPASQRLTWNKSPKSVLVIKKMRDASLLQPFKELCTHLMENMIVYVEK
 KVLEDPAIASDESFGAVKKKCTFREDYDDISNQIDFIICLGGDGLLYASSLFQGSVPPVMAFHLGSLG
 FLTPFSFENFQSQVTQVIEGNAAVVLRSLKVRVVKELRGKKTAVHNLGEGKSQAAGLDMVKGQAMQY
 QVLNEVIDRGPSSYLSNVDVYLDGHLITTVQDGVIVSTPTGSTAYAAAAGASMIHPNVAIMIPTICP
 HSLSFRPIVVPAGVELKIMLSPEARNTAWVSFDGRKRQEIRHGDSISITTSYPLPSICVRDPVSDWFES
 LAQCLHWNVRKKQAHFE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_023018

ORF Size: 1338 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

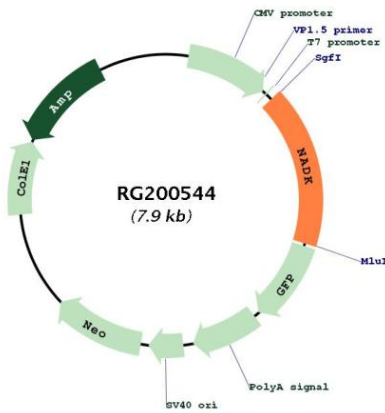
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_023018.3](#), [NP_075394.3](#)

RefSeq Size:	3283 bp
RefSeq ORF:	1341 bp
Locus ID:	65220
UniProt ID:	<u>O95544</u>
Cytogenetics:	1p36.33
Domains:	NAD_kinase
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 RG200544