

Product datasheet for **RG234126**

NADK (NM_001198993) Human Tagged ORF Clone

Product data:

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



ORF Nucleotide Sequence: >RG234126 representing NM_001198993
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAATGGAACAAGAAAAATGACCATGAATAAGGAATTGAGTCCAGACGCGGCTGCTTACTGCTGCT
 CGGCCTGCCACGGCGATGAGACCTGGAGTTACAACACCCCATCCGGGGCCGGGCAAGTCTCGCAGCCT
 GTCTGCCTCGCCCGCCCTGGGGAGCACCAAGGAGTTTCAAGGAGACACGCTCTCTTATGGGCCATGCCCG
 GTGACCACTTTTGACCAAGGCCGTGTGTCTGCAGAACCCCAAGAGCCTTGTCTATCAAGAAGATGAGAGATGCCAG
 CGAGCCAGCGGCTGACGTGGAACAAGTCCCAAGAGCGTCTTGTCTATCAAGAAGATGAGAGATGCCAG
 CCTACTGCAGCCGTTCAAGGAGCTCTGCACGCACCTCATGGAGGAGAACATGATCGTGTATGTGGAAGAA
 AAGTGCTAGAAGACCTGCCATCGCCAGCGATGAAAGCTTTGGGGCAGTGAAGAAGAAATCTGTACCT
 TTCGAGAAGATTATGATGACATTTCCAATCAGATAGACTTCATCATCTGCCTGGGGGAGACGGGACGCT
 GCTGTACGCTTCTCGCTTTCCAGGGCAGCGTCCCTCCGGTCATGGCCTTCCACCTGGGCTCCCTGGGC
 TTCCTGACCCCATTCAGCTTTGAGAACTTTCAGTCCCAAGTTACTCAGGTGATAGAGGGGAACGCAGCTG
 TTGTTCTCCGGAGTCGGCTGAAGGTGAGGTGGTGAAGGAGCTCCGGGGGAAGAAGACGGCCGTGCACAA
 TGGGCTGGGTGAGAACGGCTCGCAGGCTGCAGGCTGGACATGGATGTGCGGAAGCAGGCCATGCAGTAC
 CAGGTCTGAATGAGGTGGTGAATGACAGAGGCCCTCCTCCTACCTGTCCAATGTGGATGTCTACCTGG
 ACGGACACCTCATCACCAGGTGCAGGGCGACGGAGTGATCGTGTCCACCCCGACGGGCAGCACGGCGTA
 TCGCGCCGCGCCGGGCTCCATGATCCACCCCAACGTGCCGGCCATCATGATCACGCCCATCTGCCCC
 CACTCGCTGTCTTCCGGCCCATCGTGGTCCCGCAGGGTTCGAGCTGAAGATCATGCTGTACCTGAAG
 CAAGGAACACAGCATGGGTGTCTTTGATGGACGGAAGAGACAAGAGATCCGCCATGGAGACAGCATCAG
 CATCACTACCTCATGCTACCCGCTCCCTCCATCTGTGTGCGGGACCCCGTGAGCGACTGGTTTGAGAGC
 CTCGCCAGTGCCTGCATTGGAACGTCCGGAAGAAGCAAGCCCACTTCGAGGAGGAGGAGGAGGAGGAGG
 AGGAGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

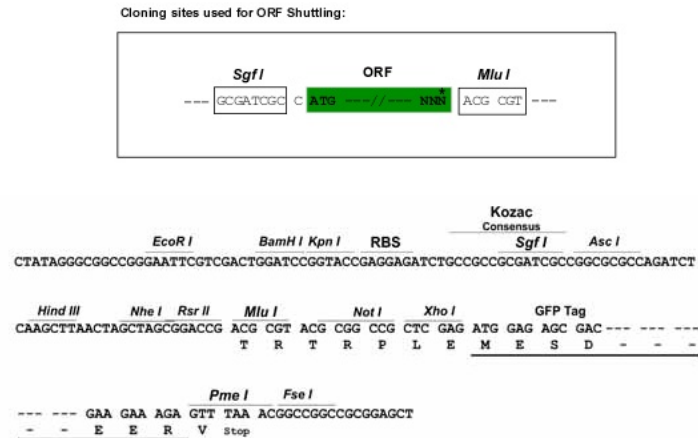
Protein Sequence: >RG234126 representing NM_001198993
 Red=Cloning site Green=Tags(s)

MEMEQEKMTMNKELSPDAAAYCCSACHGDETWSYNHPIRGRAKSRSLSASPALGSTKEFRRTSLHGPCP
 VTTFGPKACVLQNPQTIMHIQDPASQRLTWNKSPKSVLVIKKMRDASLLQPFKELCTHLMENMIYVVEK
 KVLDPALIASDESFGAVKKKCTFREDYDDISNQIDFIICLGGDGLLYASSLFQGSVPPVMAFHLGSLG
 FLTPFSFENFQSQVTQVIEGNAAVVLRSLKVRVVKELRGKKTAVHNGLGENGSQAAGLDMDVKGQAMQY
 QVLNEVVDRGPSSYL SNVDVYLDGHLITTVQGDGVIIVSTPTGSTAYAAAAGASMIHPNPVAIMITPICP
 HSLSFRPIVVPAGVELKIMLSPEARNTAWVSFDGRKRQEIIRHGDSISITTSYPLPSICVRDPVSDWFES
 LAQCLHWNVRKKQAHFEFFFFFFFFEEG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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:

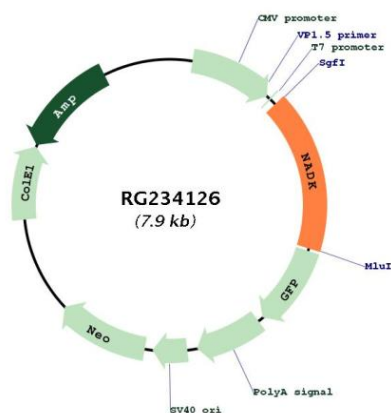
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001198993.2](#)

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
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 RG234126