

Product datasheet for **MC227431**

Nadk2 (NM_001286253) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nadk2 (NM_001286253) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nadk2
Synonyms:	MNADK; Nadkd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227431 representing NM_001286253 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTGCTACCGGGCTTCTGCTGGGCAGCTGCCGGCGCGTGGCGGGTGGCCGCGGGCTCTGCGGG
GTTCCGGCTCGGGCGGGACGGCCGGCGGCACTGGGGCACGGGCAGCCGCGGAGCTGGCGGGCGGTGG
TAGCCCCCGGACGGCGGCTTCCGCCCTCGCGGGTGGTGGTGGCGAAAACCACCCGCTACGAGTTC
GAGCAGCAGCGGTACCGCTACCGGAGCTCTCGGAGGAGACCTGAAGCAGCTGCTTGCATTGAAAGGCT
CGAGCTACAGTGGACTACTTGAGCGACATCATATTCACACAAAAATGTAGAACACATAATTGATAGTTT
ACGGGATGAAGGGATTGAGGTTTCGCTGGTCAAGCGGAGGGAGTACGATGAAGAGACAGTTCGATGGGCA
GACGCTGTATAGCTGCGGGAGGTGATGGCACGATGCTTCTGGCTGCGAGTAAAGTCTGGACAGACTTA
AACCTGTCAATGGGGTCAACACTGATCCGGAACGGTCTGAAGGTCACTTATGTCTGCCTGTGCGATACAC
GCATTCCTTCCCTGAAGCCTTACGGAGGTTCTCTCGTGGTGAAGTTCAGGTGGTGTGGAGGCAGCGGATC
AGGTTATATCTGGAAGGGACTGGCATAAACCCCACTCCCGTGGACCTTACGAACAGCAGCTGAGCTTGA
ATCAGCACAGCCGAGCCTTAAACATCGAAAGAGCGCACGATGAAAGGTCGGAGGCGTCAGGCCTCAGCT
TCTGCCGTGAGAGCGCTCAATGAAGTCTTATTGGGGAGAGCCTGTATCCAGGCTTCTACTATGAA
ATTTCACTCGATGACGGCCATGGGAGAAGCAGAAGAGCTCAGGGCTCAATTTGTGACAGGACAGGAT
CGAAGGCCTGGTCAATCAATATAACAGGGTTCAGCGCAGGCTGTTGAAGATGTTTACATATTGCAAG
ACGACAAGGAAATCTGACTCTTCCATTGAACAAAGACTTGGTAGAAAAAGTGACAAACGAATATAACGAA
TCATTGCTCTACAGTCCAGAAGAACAAAAATACTTTTCAGTATTCGAGAGCCAATAGCAAAACAGAGTTT
TCTCCAGCAGCCGTCAGCGTTGTTTCTCTCCAAG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001286253
Insert Size:	1158 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001286253.1</u> , <u>NP_001273182.1</u>
RefSeq Size:	1734 bp
RefSeq ORF:	1158 bp
Locus ID:	68646
Cytogenetics:	15 A1
Gene Summary:	<p>Mitochondrial NAD(+) kinase that phosphorylates NAD(+) to yield NADP(+). Can use both ATP or inorganic polyphosphate as the phosphoryl donor (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks an in-frame exon in the central coding region, lacks several additional exons, and its 3' terminal exon extends past a splice site that is used in variant 1. The encoded isoform (3) is shorter and has a distinct C-terminus, compared to isoform 1.</p>