

Product datasheet for **RN206581**

Nadk2 (NM_001044252) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nadk2 (NM_001044252) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nadk2
Synonyms:	Nadkd1; RGD1306809
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN206581 representing NM_001044252 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACACATCAGCTATCCAGCAGACACTGGTTAAAATTTACCAAAGACAAGCATGGCAACCACCCAGAA
AAGCTAGCAAAAATGAAACAACGTGGGAAGCCGCGAGCTGGCGGGCGGTGGTAGCCCCGCCGACGG
CGGCTTCCGCCCTCGCGGTGGTTGTGGTGGCGAAAACCACCCGCTATGAGTTCGAGCAGCAGCGGTAC
CGCTATGCGGAGCTCTCCGAGGAGGACCTGAAGCAGCTGCTTGCAATTGAAAGGCTCGAGCTACAGTGGGC
TACTTGAGCGACATCATATCCACACAAAAATGTCGAACACATCATTGATAGCTTACGGGATGAAGGGAT
CGAGGTGCGCCTGGTAAAGCGGAGAGAGTACGACGAAGAGACTGTTTCGATGGGCAGATGCTGCATAGCC
GCAGGAGGTGATGGCAGCATGCTTCTGGCCGCCAGTAAAGTTCTGGACAGACTTAAACCTGTCATTGGGG
TCAACACTGATCCGGAACGGTCTGAAGTCACTTATGCTGCCTGTGCGATACACACATTCCTTCCCCGA
AGCCTTACAGAAGTTCTCTCGTGGTGAAGTTCAGGTGGTTATGGAGGCAGCGGATCAGGTTATATCTGGAA
GGGACCGGCATCAACCCAGTCCCGTGGACCTCCACGAACAGCAGCTGAGCTTGAATCAGCACAGCCGAG
CCTTTAACATCGAAAGAGTGGACGATGAAAGATCCGAGGCTTCAGGACCTCAGCTTCTGCCGTTGAGAGC
GCTCAATGAAGTCTTATTGGGGAGAGCCTGTCATCCAGGCTTCTTACTATGAAATTTCAAGTTGATGAT
GGCCCATGGGAGAAGCAGAAGAGTTCAGGGCTCAATTTGTGTAAGTGAACAGGATCGAAGGCCTGGTCAT
TCAATATCAACAGGGTTGCAGCTCAGGCTGTTGAAGATGTTTTAAATATCGCCAGACGACAAGGAAATCT
GACTCTTCCACTGAACAAAGAAATGGTAGAAAAAGTAACAAACGAATATAACGAGTCACTGCTCTACAGT
CCAGAAGAACCCAAAATACTCTTCAAGTATCCGAGAGCCAATAGCAAACAGAGTTTTCTCAAGCAGCCGTC
AGCGTTGTTTCTCCTCAAAAGTTTGTGTTCTCGTTCGGTGTGGGATGCCTGCATGGTTGTGGATGGAGG
AACATCTTTTGAAGTTAACGACGGAGCAATTGCTTCAATGATGATCAATAAAGAAGATGAGCTTCGAAT
GTGATTCTAGAACAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001044252
Insert Size:	1278 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).
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_001044252.1</u> , <u>NP_001037717.1</u>
RefSeq Size:	3135 bp
RefSeq ORF:	1278 bp
Locus ID:	365699
UniProt ID:	<u>Q1HCL7</u>
Cytogenetics:	2q16
Gene Summary:	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]