

## Product datasheet for **RR206581**

### Nadk2 (NM\_001044252) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nadk2 (NM_001044252) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nadk2
Synonyms:	Nadkd1; RGD1306809
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206581 representing NM_001044252 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACACATCAGCTATCCAGCAGACACTGGTTAAAATTTACCAAAGACAAGCATGGCAACCACCCAGAA  
AAGCTAGCAAAAATGAAACAACGTGGGAAGCCGCGAGCTGGCGGGCGGTGGTAGCCCCGCCGACGG  
CGGCTTCCGCCCTCGCGGTGGTTGTGGTGGCGAAAACCACCCGCTATGAGTTCGAGCAGCAGCGGTAC  
CGCTATGCGGAGCTCTCCGAGGAGGACCTGAAGCAGCTGCTTGCAATTGAAAGGCTCGAGCTACAGTGGGC  
TACTTGAGCGACATCATATCCACACAAAAATGTCGAACACATCATTGATAGCTTACGGGATGAAGGGAT  
CGAGGTGCGCCTGGTAAAGCGGAGAGAGTACGACGAAGAGACTGTTTCGATGGGCAGATGCTGCATAGCC  
GCAGGAGGTGATGGCAGCATGCTTCTGGCCGCCAGTAAAGTTCGGACAGACTTAAACCTGTCATTGGGG  
TCAACACTGATCCGGAACGGTCTGAAGTCACTTATGTCTGCCTGTGCGATACACACATTCCTTCCCCGA  
AGCCTTACAGAAGTCTCTCGTGGTGAAGTTCAGGTGGTTATGGAGGCAGCGGATCAGGTTATATCTGGAA  
GGGACCGGCATCAACCCAGTCCCGTGGACCTCCACGAACAGCAGCTGAGCTTGAATCAGCACAGCCGAG  
CCTTTAACATCGAAAGAGTGGACGATGAAAGATCCGAGGCTTCAGGACCTCAGCTTCTGCCGTTGAGAGC  
GCTCAATGAAGTCTTATTGGGGAGAGCCTGTCATCCAGGCTTCTTACTATGAAATTTCAAGTTGATGAT  
GGCCCATGGGAGAAGCAGAAGAGTTCAGGGCTCAATTTGTGACTGGAACAGGATCGAAGGCCTGGTCAT  
TCAATATCAACAGGGTTGCAGCTCAGGCTGTTGAAGATGTTTTAAATATCGCCAGACGACAAGGAAATCT  
GACTCTTCCACTGAACAAAGAAATGGTAGAAAAAGTAACAAACGAATATAACGAGTCACTGCTCTACAGT  
CCAGAAGAACCCAAAATACTCTTCAAGTATCCGAGAGCCAATAGCAAACAGAGTTTTTCTCAAGCAGCCGTC  
AGCGTTGTTTCTCTCAAAGTTTGTGTTCTCGTTCGGTGTGGGATGCCTGCATGGTTGTGGATGGAGG  
AACATCTTTTGAAGTTAACGACGGAGCAATTGCTTCAATGATGATCAATAAAGAAGATGAGCTTCGAACT  
GTGATTCTAGAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA





<b>ORF Size:</b>	1275 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001044252.1</a> , <a href="#">NP_001037717.1</a>
<b>RefSeq Size:</b>	3135 bp
<b>RefSeq ORF:</b>	1278 bp
<b>Locus ID:</b>	365699
<b>UniProt ID:</b>	<a href="#">Q1HCL7</a>
<b>Cytogenetics:</b>	2q16
<b>MW:</b>	48.1 kDa
<b>Gene Summary:</b>	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]