

Product datasheet for **MR212805**

Nadk2 (NM_001085410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nadk2 (NM_001085410) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nadk2
Synonyms:	MNADK; Nadkd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR212805 representing NM_001085410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTTGCTACCGGGCTTCTGCTGGGCAGCTGCCGGCGCTGGCGGGTGGCCGCGCGCTCTCGGGG
 GTTCGGGCTCGGGCGCGACGGCCGGCGCACTTGGGGCACGGGACGCCGCGAGCTGGCGGGCGGTGG
 TAGCCCCGCCGACGGCGGCTTCCGCCCTCGCGGGTGGTGGTGGCGAAAACCACCGCTACGAGTTC
 GAGCAGCAGCGGTACCGCTACGCGGAGCTCTGGAGGAGGACCTGAAGCAGCTGCTTGCAATGAAAGGCT
 CGAGCTACAGTGGACTACTTGAGCGACATCATATTCACACAAAAATGTAGAACACATAATTGATAGTTT
 ACGGGATGAAGGATTGAGGTTCCCTGGTCAAGCGGAGGGAGTACGATGAAGAGACAGTTGCATGGGCA
 GACGCTGCATAGCTGCGGGAGGTGATGGCAGCATGCTTCTGGCTGCGAGTAAAGTCTGGACAGACTTA
 AACCTGTCATTGGGGTCAACACTGATCCGGAACGGTCTGAAGTCACTTATGTCTGCCTGTGCGATACAC
 GCATTCTTCCCTGAAGCCTTACGGAGGTTCTCTCGTGGTGGTTCAGGTGGTGTGGAGGCAGCGGATC
 AGGTTATATCTGGAAGGACTGGCATAAACCCCACTCCCGTGGACCTTACGAAACAGCAGCTGAGCTTGA
 ATCAGCACAGCCGAGCCTTAAACATCGAAAGAGCGCACGATGAAAGGTCGGAGGCGTCAGGGCCTCAGCT
 TCTGCCGGTGAGAGCGCTCAATGAAGTCTTATTGGGGAGAGCCTGTATCCAGAATGCCTATTGTTGG
 GCTGTAGCAGTGGACAATTAAGAAGAGATATACCCAATCTAAAGGGACTGGCTTCTACTATGAAATTT
 CAGTCGATGACGGCCATGGGAGAAGCAGAAGAGCTCAGGGCTCAATTTGTGACTGGGACAGGATCGAA
 GGCTGGTCATTCAATATTAACAGGTTGCAGCGCAGGCTGTTGAAGATGTTTTACATATTGCAAGACGA
 CAAGGAAATCTGACTCTCCATTGAACAAAGACTTGGTAGAAAAAGTGACAAACGAATATAACGAATCAT
 TGCTCTACAGTCCAGAAGAACCAAAAATACTTTTCAGTATTCGAGAGCCAATAGCAAACAGAGTTTTCTC
 CAGCAGCCGTACGCGTTGTTTCTCTTCCAAAGTTTGTGTTGTTCTCGATGTTGGGATGCCTGCATGGTT
 GTGGATGGAGGAACGCTTTTTGAGTTTAAACAGCGAGCAATTGCTTCAATGATGATCAATAAAGAAGATG
 AGCTTCGAACTGTGATTCTAGAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR212805 representing NM_001085410
 Red=Cloning site Green=Tags(s)

MTCYRGFLLGSCRVRVAGGRAALRSGSGADGRRHLGHGQPRELAGGGSPADGGFRPSRVVVVAKTTRYEF
 EQQRYRYAELSEEDLKQLLALKGSSYGLLERHHIHTKNVEHIIDSLRDEGIEVRLVKRREYDEETVRWA
 DAVIAAGDGTMLLAASKVLDRLKPVIGVNTDPERSEHGLCLPVRYTHSFPEALRRFSRGEFRWLWRQRI
 RLYLEGTGINPTPVDLHEQQLSLNQHSRAFNIERAHDERSEASGPQLLPVRALNEVFIGESLSSRMPYCW
 AVAVDNLRRDIPNLKGLASYEISVDDGPWEKQKSSGLNLCTGTGSKAWSFNINRVAAQAVEDVLHIARR
 QGNLTLPLNKDLVEKVTNEYNESLLYSPEEPKILFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMV
 VDGGSFDEFNDGAIASMMINKEDELRTVILEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9090_b12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001085410

ORF Size: 1356 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.

RefSeq: [NM_001085410.2](#), [NP_001078879.1](#)

RefSeq Size: 3740 bp

RefSeq ORF: 1359 bp

Locus ID: 68646

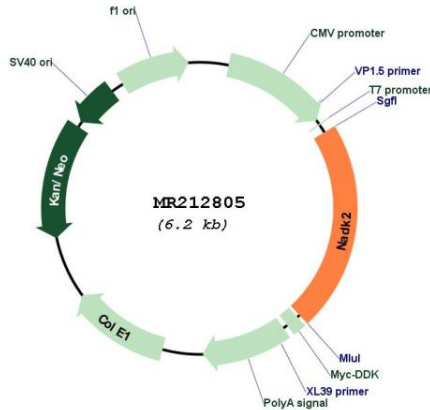
UniProt ID: [Q8C5H8](#)

Cytogenetics: 15 A1

MW: 50.9 kDa

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]

Product images:



Circular map for MR212805