

Product datasheet for **MG212805**

Nadk2 (NM_001085410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nadk2 (NM_001085410) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nadk2
Synonyms:	MNADK; Nadkd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG212805 representing NM_001085410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTTGCTACCGGGCTTCTGCTGGGCAGCTGCCGGCGCTGGCGGGTGGCCGCGCGCTCTCGGG
 GTTCGGGCTCGGGCGCGACGGCCGGCGCACTTGGGGCACGGGACGCCGCGAGCTGGCGGGCGGTGG
 TAGCCCCGCCGACGGCGGCTTCCGCCCTCGCGGGTGGTGGTGGCGAAAACACCCGCTACGAGTTC
 GAGCAGCAGCGGTACCGCTACCGGAGCTCTCGGAGGAGACCTGAAGCAGCTGCTTGCATTGAAAGGCT
 CGAGCTACAGTGGACTACTTGAGCGACATCATATTCACACCAAAAATGTAGAACACATAATTGATAGTTT
 ACGGGATGAAGGATTGAGGTTCCCTGGTCAAGCGGAGGGAGTACGATGAAGAGACAGTTCGATGGGCA
 GACGCTGCATAGCTGCGGGAGGTGATGGCAGATGCTTCTGGCTGCGAGTAAAGTCTGGACAGACTTA
 AACCTGTCATTGGGGTCAACACTGATCCGGAACGGTCTGAAGTCACTTATGTCTGCCTGTGCGATACAC
 GCATTCTTCCCGAAGCCTTACGGAGGTTCTCTCGTGGTGGTTCAGGTGGTGTGGAGGCAGCGGATC
 AGGTTATATCTGGAAGGACTGGCATAAACCCCACTCCCGTGGACCTTACGAACAGCAGCTGAGCTTGA
 ATCAGCACAGCCGAGCCTTAAACATCGAAAGAGCGCACGATGAAAGGTCGGAGGCGTCAGGGCCTCAGCT
 TCTGCCGGTGAGAGCGCTCAATGAAGTCTTATTGGGGAGAGCCTGTATCCAGAATGCCTATTGTTGG
 GCTGTAGCAGTGGACAATTAAGAAGAGATATACCAATCTAAAGGGACTGGCTTCTACTATGAAATTT
 CAGTCGATGACGGCCATGGGAGAAGCAGAAGAGCTCAGGGCTCAATTTGTGACTGGGACAGGATCGAA
 GGCTGGTCATTCAATATTAACAGGGTTGCAGCGCAGGCTGTTGAAGATGTTTTACATATTGCAAGACGA
 CAAGGAAATCTGACTCTCCATTGAACAAAGACTTGGTAGAAAAAGTGACAAACGAATATAACGAATCAT
 TGCTCTACAGTCCAGAAGAACCAAAAATACTTTTCAGTATTCGAGAGCCAATAGCAAACAGAGTTTTCTC
 CAGCAGCCGTACGCGTTGTTTCTCTTCCAAAGTTTGTGTTGCTTCTCGATGTTGGGATGCCTGCATGGTT
 GTGGATGGAGGAACGCTTTTTGAGTTTAAACGAGGCAATTGCTTCAATGATGATCAATAAAGAAGATG
 AGCTTCGAACTGTGATTCTAGAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG212805 representing NM_001085410
 Red=Cloning site Green=Tags(s)

MTCYRGFLLGSCRVRVAGGRAALRGSVSGADGRRHLGHGQPRELAGGGSPADGGFRPSRVVVVAKTTRYEF
 EQQRYRYAELSEEDLKQLLALKGSSYGLLERHHIHTKNVEHIIDSLRDEGIEVRLVKRREYDEETVRWA
 DAVIAAGDGTMLLAASKVLDRLKPVIGVNTDPERSEGLCLPVRYTHSFPEALRRFSRGEFRWLWRQRI
 RLYLEGTGINPTPVDLHEQQLSLNQHSRAFNIERAHDSEASGPQLLPVRALNEVFIGESLSSRMPYCW
 AVAVDNLRRDIPNLKGLASYEISVDDGPWEKQKSSGLNLCTGTGSKAWSFNINRVAAQAVEDVLHIARR
 QGNLTLPLNKDLVEKVTNEYNESLLYSPEEPKILFSIREPIANRVFSSSRQRCFSSKVCVRSRCWDACMV
 VGGGTSFEFNDGAIASMMINKEDLRTVILEQ

TRTRPLE – GFP Tag – V

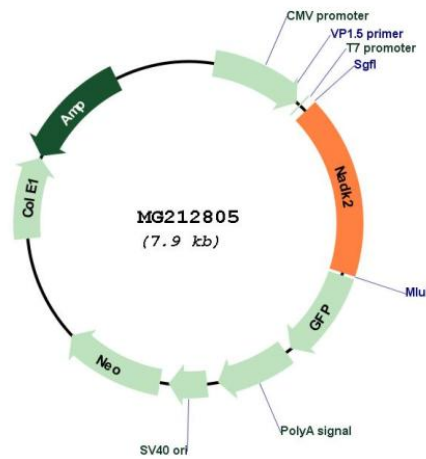
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_001085410.2</u> , <u>NP_001078879.1</u>
RefSeq Size:	3731 bp
RefSeq ORF:	1359 bp
Locus ID:	68646
UniProt ID:	<u>Q8C5H8</u>
Cytogenetics:	15 A1
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]