

Product datasheet for MR229717

Nadk2 (NM_001286255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nadk2 (NM_001286255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nadk2
Synonyms:	MNADK; Nadkd1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229717 representing NM_001286255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACTTGCTACCGGGGCTTCTGCTGGGCAGCTGCCGGCGCGTGGCGGGTGGCCGCGGGCTCTGCGGG
GTTCCGGGCTCGGGCGGACGGCCGGCGGCACTGGGGCACGGGCAGCCGCGGAGCTGGCGGGCGGTGG
TAGCCCCGCCGACGGCGGCTTCCGCCCTCGCGGGTGGTGGTGGCGAAAACCACCCGCTACGAGTTC
GAGCAGCAGCGGTACCGCTACCGGAGCTCTCGGAGGAGGACCTGAAGCAGCTGCTTGCAATGAAAGGCT
CGAGCTACAGTGGACTACTTGAGCGACATCATATTCACACCAAAAATGTAGAACACATAATTGATAGTTT
ACGGGATGAAGGGATTGAGGTTTCGCTGGTCAAGCGGAGGGAGTACGATGAAGAGACAGTTTCGATGGGCA
GACGCTGTATAGCTGCGGGAGGTGATGGCAGCATGCTTCTGGCTGCGAGTAAAGTCTGGACAGACTTA
AACCTGTCAATGGGGTCAACTGATCCGGAACGGTGGTGTGGAGGCAGCGGATCAGGTTATATCTGGA
AGGACTGGCATAAACCCTCCCGTGGACCTCACGAACAGCAGCTGAGCTTGAATCAGCACAGCCGA
GCCTTTAACATCGAAAGAGCGCACGATGAAAGGTGCGAGGCGTCAGGGCCTCAGCTTCTGCCGGTGAAG
CGCTCAATGAAGTCTTCAATGGGGAGAGCCTGTATCCAGGGCTTCTACTATGAAATTTTCAGTCGATGA
CGGCCCATGGGAGAAGCAGAAGAGCTCAGGGCTCAATTTGTGCACTGGGACAGGATCGAAGGCCTGGTCA
TTCAATATTAACAGGGTTGCAGCGCAGGCTGTTGAAGATGTTTTACATATTGCAAGACGACAAGGAAATC
TGACTCTTCCATTGAACAAAGACTTGGTAGAAAAAGTGACAAACGAATATAACGAATCATTGCTCTACAG
TCCAGAAGAACAAAAAATACTTTTCAGTATTCGAGAGCCAATAGCAAACAGAGTTTTCTCCAGCAGCCGT
CAGCGTTGTTTCTTCCAAAGTTTGTGTTGTTCTCGATGTTGGGATGCCTGCATGGTTGTGGATGGAG
GAACGTCTTTGAGTTTAAACGACGGAGCAATTGCTTCAATGATGATCAATAAAGAAGATGAGCTTCGAAC
TGTGATTCTAGAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229717 representing NM_001286255
 Red=Cloning site Green=Tags(s)

MTCYRGFLLGSCRRAVAGGRAALRGSGGADGRRHLGHGQPRELAGGGSPADGGFRPSRVVVVAKTTRYEF
 EQQRYRYAELSEEDLKQLLALKGSSYGLLERHHIHTKNVEHIIDSLRDEGIEVRLVKRREYDEETVRWA
 DAVIAAGDGTMLLAASKVLDRLKPVIGVNTDPERWLWRQRIRLYLEGTGINPTPVDLHEQQLSLNQHSR
 AFNIERAHDERSEASGPQLLPVRALNEVFIGESLSSRASYYEISVDDGPWEKQSSGLNLCTGTGSKAWS
 FNINRVAQAQAVEDVLIARRQGNLTLPLNKDLVEKVTNEYNESLLYSPEEPKILFSIREPIANRVFSSSR
 QRCFSSKVCVRSRCWDACMVVDGGTSFEFNDGAIASMMINKEDLRTVILEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

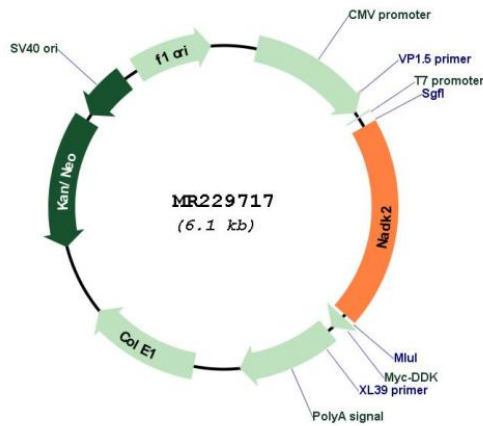
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286255

ORF Size:	1206 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:	NM_001286255.1 , NP_001273184.1
RefSeq Size:	3590 bp
RefSeq ORF:	1209 bp
Locus ID:	68646
UniProt ID:	Q8C5H8
Cytogenetics:	15 A1
MW:	45.5 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]