

Product datasheet for **MC226716**

Naxd (NM_001293661) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Naxd (NM_001293661) Mouse Untagged Clone
Tag: Tag Free
Symbol: Naxd
Synonyms: 0710008K08Rik; 2810407E01Rik; Carkd
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226716 representing NM_001293661
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGAGTCCGCTGTGTGGCAATCCGCGCCTGCGGGGAGTTTTACAGAGAGCACTGTCTCTCCATACAG
CACATGCGACAAAGGACATGGAGAACCTTTTTAGCTGGTGAGAAACATTGTGCCTGCTCTGACGTGCGAA
GAAGCACAAGGGGCAAGATGGAAGAATAGGCATAGTCGGGGGCTGCCAAGAGTACACAGGAGCACCATAT
TTTGCAGGAATCTCAGCCTTGAAGTGGGTGCAGATTTGACCCACGTGTTCTGTGCCAGGGAGGCAGCGC
CAGTGATCAAGTCTACAGCCCAGAGCTGATCGTCCACCCAGTCTTGACAGTTCCAATGCTGTTGAGGA
GGTGGAGAAATGGCTCCCAGGCTGCATGCCCTTGTCTGGGACCTGGCCTAGGTAGGGATGACCTTCTT
CTCAACAATGTCAGGGGCATTTTGAATCAACCAAGGCCAGGGACATCCCTGTGGTCATTGATGCGGACG
GCCTGTGGCTCGTTGCTCAGCAGCCAGCCCTCATCCATAGTTACCACAAGGCCATTCTCACCCCAACCA
CGTGGAGTTCAGCAGACTCTGGGAAGCTGTGCTCAGTAGTCTATGGACAGCAACGATCTCAAGGGCTCC
ACACTGAAGCTCAGCCAGGCCCTGGGGAACATCACAGTGGTCCAGAAAGGAGAGCAGGACCTGATCTCCA
ATGGCCAGCAGGCTCCAGCCACTCCTGGTGGCTGCCTGGGGCGCTGCACACTCACAAAGGGAGTGTAAC
CGGCAGGCCTTCCAGAAGTACGGGCGCTCTACAACCACTACCGACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001293661
Insert Size: 819 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001293661.1, NP_001280590.1</u>
RefSeq Size:	1209 bp
RefSeq ORF:	819 bp
Locus ID:	69225
Cytogenetics:	8 A1.1
Gene Summary:	<p>Catalyzes the dehydration of the S-form of NAD(P)HX at the expense of ATP, which is converted to ADP. Together with NAD(P)HX epimerase, which catalyzes the epimerization of the S- and R-forms, the enzyme allows the repair of both epimers of NAD(P)HX, a damaged form of NAD(P)H that is a result of enzymatic or heat-dependent hydration.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame exon in the 5' UTR and 5' coding region and lacks an alternate coding exon in the 3' end compared to variant 1. This results in a shorter protein (isoform 2) with distinct N- and C-termini compared to isoform 1.</p>