

## Product datasheet for **RR214825**

### Naxe (NM\_001106440) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Naxe (NM\_001106440) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Naxe  
**Synonyms:** AI-BP; Apoa1bp  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214825 representing NM\_001106440  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTGGCCGGTTGAGCTGTGCCACGGCCATTGCCAAGGCTTATCCCCACGTCTATGTCCAAGA  
GTCCCCGACTGTCTTGGTCATCTGTGGCCCCGAAATAACGGAGGGGATGGGCTGGTCTGTGCGCGACA  
CCTCAAACTTTTGGTTACCAGCCAATCTATTACCCAAAAGACCTAACAAACCACTTCTACTGGG  
CTAGTGACTCAGTGTAGAAAATGGACATCCCTTTCCTTGGTAAAATGCCCCAGAGCCCATGATGGTGG  
ATGAGCTGTATGAATTGGTGGTGGATGCCATCTTCGGCTTCAGTTTCAAGGGCGATGTTCCGGAGCCGTT  
CCACAGTATCCTGAGTGTCTTGGTGGACTCACTGTGCCATCGTAGCATCGATATTCCTTCAGGATGG  
GATGTAGAGAAGGGAAACCCTAGTGGAAATCCAACCAGACTTACTCATCTCACTGACGGCACCCAAGAAGT  
CTGCAACTCAGTTTACTGGCCGATATCATTACCTCGGAGGGCGTTTTGTACCACCTGCTCTAGAAAAGAA  
GTACCAGCTGAACCTGCCAGCCTACCCTGACACAGAGTGTGTCTACCGTCTTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR214825 representing NM\_001106440  
Red=Cloning site Green=Tags(s)

MELAGLSCATAIAKAYPPTSMSKSPPTVLVICPGNNGDGLVLCARHLKLFQYQPTIYYPKRPNKPLFTG  
LVTQCQKMDIPFLGEMPPPEMMVDELVELVVDAIFGF SFKGDVREPFHSILSVLSGLTVPIASIDIPSGW  
DVEKGNPSGIQPDLLISLTAPKKSATQFTGRYHYLGGRFVPPALEKKYQLNLPAYPDTECVYRLQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

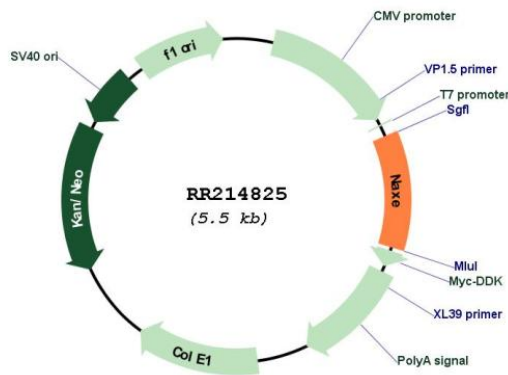


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001106440

ORF Size: 615 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\_001106440.1, NP\_001099910.1

**RefSeq Size:** 1019 bp

**RefSeq ORF:** 618 bp

**Locus ID:** 295229

**Cytogenetics:** 2q34

**MW:** 22.4 kDa

**Gene Summary:** Catalyzes the epimerization of the S- and R-forms of NAD(P)HX, a damaged form of NAD(P)H that is a result of enzymatic or heat-dependent hydration. This is a prerequisite for the S-specific NAD(P)H-hydrate dehydratase to allow the repair of both epimers of NAD(P)HX. [UniProtKB/Swiss-Prot Function]