

Product datasheet for **MG203820**

Naxe (NM_144897) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Naxe (NM_144897) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Naxe
Synonyms:	AA087124; AI-BP; AIBP; Apoa1ip; ESTM37; Naxe
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203820 representing NM_144897 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGGCTGCGGACGCTGCTGGGGCTGGGGCTGCTGGTTGCGGGCTCGCGCCTGCCACGGGTCA
GCCAGCAGAGTGTGTGTCGTGCAAGGCCCATCTGGTGGGAACACAGCGCCGGGGCTCGGAGACCATGGC
GGGCGCTGCGGTGAAGTACTTAAGTCAGGAGGAGGCTCAGGCCGTGGACCAAGAGCTTTTAAACGAGTAT
CAGTTCAGCGTGGATCAACTCATGGAGCTGGCCGGTTGAGCTGTGCCACGGCTATTGCCAAGGCTTATC
CCCCACGTCTATGTCCAAGAGTCCCCGACTGTCTTGGTCATCTGTGGCCCCGAAATAACGGAGGGGA
TGGGCTGGTCTGTGCGCGACACCTCAAACCTTTTTGGTTACCAGCCAATCTATTACCCAAAAGACCT
AACAAGCCCTCTCACTGGGCTAGTGACTCAGTGTGAGAAAATGGACATTCTTTCTTGGTGAATGC
CCCCAGAGCCCATGATGGTGGACGAGCTGTATGAGCTGGTGGTGGACGCCATCTTCGGCTCAGTTTCAA
GGGTGACGTTTCGGGAGCCATCCACAGCATCCTGAGTGTCTTGTGAGTGGACTCACTGTGCCATTGCTAGC
ATCGACATTCCCTCAGGATGGGATGTAGAGAAGGGAAACCCTAGCGGAATCCAACCAGACTTACTCATCT
CACTGACGGCACCCAAGAAGTCTGCAACTCACTTTACTGGCCGATATCATTACCTTGGGGTTCGCTTTGT
ACCACCTGCTCTAGAGAAGAAGTACCAGCTGAACCTGCCATCTTACCCTGACACAGAGTGTGTCTACCGT
CTACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203820 representing NM_144897
 Red=Cloning site Green=Tags(s)

MSGRLTLLGLLLVAGSRLPRVISQQSVCRARPIWWGTQRRGSETMAGAAVKYLSQEEAQAVDQELFNEY
 QFSVDQLMELAGLSCATAIAKAYPPTSMKSPPTVLVICGPGNNGGDGLVCARHLKLFQYQPTIYYPKRP
 NKPLFTGLVTQCQKMDIPFLGEMPPPEMMVDELVELVDAIFGF SFKGDVREPFHSILSVLSGLTVPIAS
 IDIPSGWDVEKGNPSGIQPDLLISLTAPKKSATHFTGRYHYLGGRFVPPALEKKYQLNLPSPYDTECVYR
 LQ

TRTRPLE - GFP Tag - V

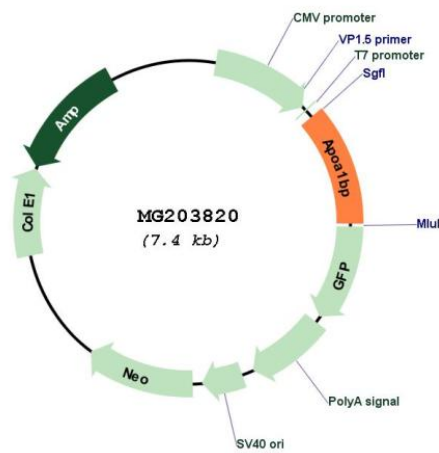
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_144897

ORF Size: 846 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_144897.3
RefSeq Size:	907 bp
RefSeq ORF:	849 bp
Locus ID:	246703
UniProt ID:	Q8K4Z3
Cytogenetics:	3 F1
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]