

Product datasheet for **MR230598**

Enox2 (NM_001271450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enox2 (NM_001271450) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enox2
Synonyms:	APK1; Cova1; tNOX
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230598 representing NM_001271450
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCTGCCTGTGTCTGATCCAGCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCTCCACTGG
 GAATTGCTGGACAACCAATTTTACTGACTTCGATCCTGCCCTTGGGATGATGACTGGAATACCACCAAT
 AACTCCCATGATGCCGGTTTGGGCATAGTCCCGCCACCGATTCTCCAGATATGCCGAGTACAAAGGAG
 ATCATACACTGCAAAAGCTGCACGCTCTCCCTCCCAACCCAAATCTTCCACCACCTGCAACACGAGAAA
 GGCCACCAGGCTGTAAGACAGTGTGGTGGCTGCCTGAAAATGGGACAGAGCAGATCATTGTGGA
 AGTGTTTGAACAGTGTGGAGAGATTATTGCTATCCGGAAGAGCAAAAAGAACTTCTGTACATTCGCTTT
 GCTGAGGAATACATGGTGGACAAAGCCCTATCTGTCTGGTTACCGAATTCGTCTGGGCTAGTACTG
 ACAAGAAGGACACAGGCCGGCTCCATGTTGACTTTGCCAGGCTCGGGATGACTTATATGAGTGGGAGTG
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGGCACCGTAGAAGGATGGAAGAAGAAAGAAATGCGTCCACCA
 TCCCCACCTCCAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAACTCAAAGATGATT
 CCAAATTCCTGGGAGCTGTGCAGACCTTGTCACTGGATTGAGAGGGGGGAAGTGAACCGCCGAGTGC
 CAACCACTTCTACTCCATGATCCAGTCAGCCAACAGCCATGTCCGCCGCTGGTAAATGAGAAAGCTACC
 CATGAGAAAGAGATGGAAGAAGCAAAAGAGAAGTTCAGCAGGCCCTTTCTGGAATTCCTATTCAATTTG
 AGCAGATAGTAGCTGTGTACCATTCCGCTTCCAAACAGAAGGCATGGGACCACCTTCAAAAAGCACAACG
 TAAAAACATCAGTGTGGTGCAAAAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA
 ATCAGAAGAGAAGAAGAAATGAAATGTCTGATGATAAAGAAGAGACAACAGAAAACAAAAGAAACGG
 AGGAATCAGCCTTAGTGTACAGGCAGAAGCTCTGAAGGAGGAAAATGATAGCCTCCGCTGGCAGCTGGA
 CGCATACCGGAATGAGGTAGAAGCTGCTCAACAGGAACAAGGCAAGCCACAGGGAGGATGACCCAAAC
 AAGGAACAGCAGCTGAACTTCTGCAGCAAGCCCTACAAGGGATGCAACAGCATCTGCTCAAAGTCCAAG
 AGGAATACAAAAGAAAGAAAGCTGAGCTTGACCGAATCAAAGACGACAATTTACAGCAGGAAAAGTGTGG
 TTCTAGACTGTGTGCATCAAGCCAAGAAGGTGAGCAACCTCTTGAGAAGACCGCAGTCAAGCAATCTGTG
 AAATCTGAACGTGAGGCACTGCTAGTGGGGATCATCTCCACATTCCTTACGTCACCCATTTGGAGCCA
 GCATTGAATACATCTGTTCTACTTGAATCGTCTCGATAAAGGCAAGCTACCAATACCCAGCAAAT
 AACCACTTCTCCACTTACCGATCAGCACCAGTGTGGAATCTCTCATGAGTACTCCAGCATAACC
 TTCAGACAGGAAATGACTGGAGTTGGAGCCAGCCTGGAGAAGAGATGGAATTCGTGGTTTTGAGGGCT
 TGAAAGTGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230598 representing NM_001271450
 Red=Cloning site Green=Tags(s)

MTLPVSDPAAWATAMNNLGMAPLGIAGQPILPDFDPALGMMTGIPPITPMPPLGIVPPPIPPDMPPVAKE
 ITHCKSCTLFPPNPNLPPPATRERPPGCKTVFVGGLPENGTQIIVEVFEQCGEIIAIRKSKKNFCHIRF
 AEEYMDVKALYLSGYRIRLGSSTDKDGTGRLHVDFAQARDDL YEWCKQRMLAREERHRRRMEERMRPP
 SPPPVVHYSDECSIVAELKDDSKFSEAVQTLT TWIERGEVNRRSANHFYSMIQSANSVHRRRLVNEKAT
 HEKEMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNISVWCKQAEIIRNIHNDEL MG
 IRREEMEMSDDEIEETTETKETEEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEQQKAHREDDPN
 KEQQLKLLQQALQGMQQHLLKVQEEYKKEAELDRIKDDNLQQENCGRSLCASSQEGEOPLEKTAVSNPV
 KSEREALLVGIISTFLVHVPFGASIEYICSYLNRLDNKASYQIPSKLTTSPLLPISTSDVESLMSRLQHT
 FRQEMTGVGASLEKRWKFCGFGLKLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

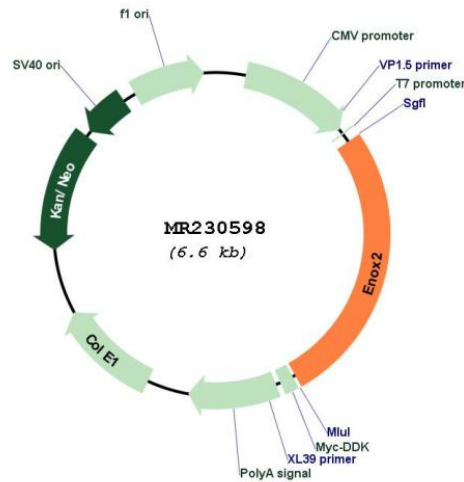
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001271450

ORF Size: 1761 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_001271450.1 , NP_001258379.1
RefSeq Size:	3933 bp
RefSeq ORF:	1764 bp
Locus ID:	209224
UniProt ID:	Q8R0Z2
Cytogenetics:	X A5
MW:	67.4 kDa
Gene Summary:	May be involved in cell growth. Probably acts as a terminal oxidase of plasma electron transport from cytosolic NAD(P)H via hydroquinones to acceptors at the cell surface. Hydroquinone oxidase activity alternates with a protein disulfide-thiol interchange/oxidoreductase activity which may control physical membrane displacements associated with vesicle budding or cell enlargement. The activities oscillate with a period length of 22 minutes and play a role in control of the ultradian cellular biological clock (By similarity).[UniProtKB/Swiss-Prot Function]