

Product datasheet for **MR230629**

Enox2 (NM_001271449) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enox2 (NM_001271449) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Enox2
Synonyms:	APK1; Cova1; tNOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230629 representing NM_001271449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGCTGCCTGTGTCTGATCCAGCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCTCCACTGG
 GAATTGCTGGACAACCAATTTTACTGACTTCGATCCTGCCCTTGGGATGATGACTGGAATACCACCAAT
 AACTCCCATGATGCCGGTTTGGGCATAGTCCCGCCACCGATTCTCCAGATATGCCGGTAGCAAAGGAG
 ATCATACACTGCAAAAGCTGCACGCTCTTCCCTCCCAACCCAAATCTTCCACCACCTGCAACACGAGAAA
 GGCCACCAGGCTGTAAGACAGTGTGGTGGCTGCCTGAAAATGGGACAGAGCAGATCATTGTGGA
 AGTGTTTGAACAGTGTGGAGAGATTATTGCTATCCGGAAGAGCAAAAAGAACTTCTGTACATTCGCTTT
 GCTGAGGAATACATGGTGGACAAAGCCCTCTATCTGTCTGGTTACCGAATTCGTCTGGGCTCTAGTACTG
 ACAAGAAGGACACAGGCCGGCTCCATGTTGACTTTGCCAGGCTCGGGATGACTTATATGAGTGGGAGTG
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGGCACCGTAGAAGGATGGAAGAAGAAAGAAATGCGTCCACCA
 TCCCCACCTCCAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAACTCAAAGATGATT
 CCAAATTCCTCGGAAGCTGTGCAGACCTTGTCACTGGATTGAGAGGGGGGAAGTGAACCGCCGAGTGC
 CAACCACTTCTACTCCATGATCCAGTCAGCCAACAGCCATGTCCGCCGCTGGTAAATGAGAAAAGCTACC
 CATGAGAAAAGAGATGGAAGAAGCAAAAGAGAAGTTCAAGCAGGCCCTTTCTGGAATTCCTATTCAATTTG
 AGCAGATAGTAGCTGTGTACCATTCCGCTTCCAAAACAGAAAGGCATGGGACCACCTTCAAAAAGCACAACG
 TAAAAACATCAGTGTGGTGCAAAACAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA
 ATCAGAAGAGAAGAAGAAATGAAATGTCTGATGATGAAATAGAAGAGACAACAGAAAACAAAAGAACGG
 AGGAATCAGCCTTAGTGTACAGGCAGAAGCTCTGAAGGAGGAAAATGATAGCCTCCGCTGGCAGCTGGA
 CGCATACCGGAATGAGGTAGAAGCTGCTCAACAGGAACAAGGCAAAAGCCACAGGAGGATGACCCAAAC
 AAGGAACAGCAGCTGAACTTCTGCAGCAAGCCCTACAAGGGATGCAACAGCATCTGCTCAAAGTCCAAG
 AGGAATACAAAAGAAAGAAAGCTGAGCTTGACCGAATCAAAGACGACAATTTACAGGTAGAACAAGTGT
 GGAAAAATTTTATGAAAAGCAGGAAAAGTGTGGTTCTAGACTGTGTGCATCAAGCCAAGAAGGTGAGCAA
 CCTCTTGAGAAGACCGCAGTCAGCAATCCTGTCAAATCTGAACGTGAGGCACTGCTAGTGGGATCATCT
 CCACATTCCTTCCAGTCCACCCATTTGGAGCCAGCATTGAATACATCTGTTCTACTTGAATCGTCTCGA
 TAATAAGGCAAGTACCAAATACCCAGCAAATTAACCCTTCTCCACTTACCAGTACGACCAGTGTGAT
 GTGGAATCTCTCATGAGTAGACTCCAGCATACCTTCCAGACAGGAAATGACTGGAGTTGGAGCCAGCCTGG
 AGAAGAGATGAAATTCGTGGTTTTGAGGGCTTGAAGCTGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230629 representing NM_001271449
 Red=Cloning site Green=Tags(s)

MTLPVSDPAAWATAMNNLGMAPLGIAGQPILPDFDPALGMMTGIPPITPMPGLGIVPPPIPPDMPVAKE
 I IHCKSCTLFPPNPPLPPPATRERPPGCKTVFVGGLPENGTEQIIIVEVFEQCGEIIAIRKSKKNFCHIRF
 AEEYMVDKALYLSGYRIRLGSSTDKKDTGRLHVDFAQARDDL YEWCKQRMLAREERHRRMEERMRPP
 SPPPVVHYSDEHCSIVAEKLDKSKFSEAVQTLT TWIERGEVNRRSANHFYSMIQSANSHVRLVNEKAT
 HEKEMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNI SVWCKQAEIIRNIHNDELMG
 IRREEEMEMSDDEIEETTETKETEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEQQKAHREDDPN
 KEQQLKLLQQALQGMQQHLLKVQEEYKKEAELDRIKDDNLQVEQLLENFHEKQENCGSRLCASSQEGEQ
 PLEKTAVSNPVKSEREALLVGIISTFLHVHPFGASIEYICSYLNRLDNKASYQIPSKLTTSPLLPISTSD
 VESLMSRLQHTFRQEMTVGVASLEKRWKFCGFEGKLKLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001271449

ORF Size: 1794 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_001271449.1](#), [NP_001258378.1](#)

RefSeq Size: 3966 bp

RefSeq ORF: 1797 bp

Locus ID: 209224

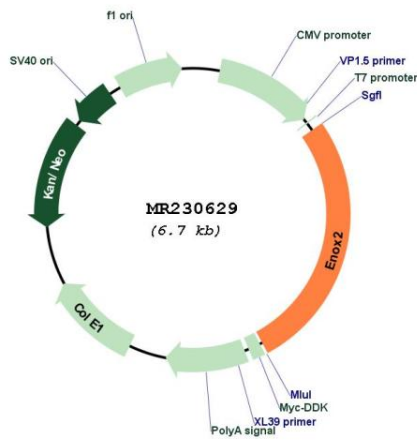
UniProt ID: [Q8R0Z2](#)

Cytogenetics: X A5

MW: 68.7 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]

Product images:



Circular map for MR230629