

## Product datasheet for **MC228418**

### Enox2 (NM\_001271449) Mouse Untagged Clone

#### Product data:

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



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**Fully Sequenced ORF:** >MC228418 representing NM\_001271449  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGCTGCCTGTGTCTGATCCAGCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCTCCACTGG  
 GAATTGCTGGACAACCAATTTTACCTGACTTCGATCCTGCCCTTGGGATGATGACTGGAATACCACCAAT  
 AACTCCCATGATGCCGGTTTGGGCATAGTCCCGCCACCGATTCTCCAGATATGCCGGTAGCAAAGGAG  
 ATCATACACTGCAAAAGCTGCACGCTCTTCCCTCCCAACCCAAATCTTCCACCACCTGCAACACGAGAAA  
 GGCCACCAGGCTGTAAGACAGTGTGGTGGCTGCCTGAAAATGGGACAGAGCAGATCATTGTGGA  
 AGTGTTTGAACAGTGTGGAGAGATTATTGCTATCCGGAAGAGCAAAAAGAACTTCTGTACATTCGTTT  
 GCTGAGGAATACATGGTGGACAAAGCCCTATCTGTCTGGTTACCGAATTCGTCTGGGCTAGTACTG  
 ACAAGAAGGACACAGGCCGGCTCCATGTTGACTTTGCCAGGCTCGGGATGACTTATATGAGTGGGAGTG  
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGGCACCGTAGAAGGATGGAAGAAGAAAGAAATGCGTCCACCA  
 TCCCCACCTCCAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAACTCAAAGATGATT  
 CCAAATTCCTGGGAAGCTGTGCAGACCTTGTCACTGGATTGAGAGGGGGGAAGTGAACCGCCGAGTGC  
 CAACCACTTCTACTCCATGATCCAGTCAGCCAACAGCCATGTCCGCCCGCTGGTAAATGAGAAAAGCTACC  
 CATGAGAAAAGAGATGGAAGAAGCAAAAGAGAAGTTCAAGCAGGCCCTTTCTGGAATTCCTATTCAATTTG  
 AGCAGATAGTAGCTGTGTACCATTCCGCTTCCAAACAGAAGGCATGGGACCACCTCACAAAAGCACAACG  
 TAAAAACATCAGTGTGGTGCAACAAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA  
 ATCAGAAGAGAAGAAGAAATGGAATGTCTGATGATGAAATAGAAGAGACAACAGAAAACAAAAGAAACGG  
 AGGAATCAGCCTTAGTGTACAGGCAGAAGCTCTGAAGGAGGAAAATGATAGCCTCCGCTGGCAGCTGGA  
 CGCATACCGGAATGAGGTAGAAGTGTCTCAACAGGAACAAGGCAAGCCACAGGGAGGATGACCCAAAC  
 AAGGAACAGCAGCTGAACTTCTGCAGCAAGCCCTACAAGGGATGCAACAGCATCTGCTCAAAGTCCAAG  
 AGGAATACAAAAGAAAGAAAGCTGAGCTTGACCGAATCAAAGACGACAATTTACAGGTAGAACAAGTGT  
 GGAAAAATTTTATGAAAAGCAGGAAAAGTGTGTTCTAGACTGTGTGCATCAAGCCAAGAAGGTGAGCAA  
 CCTCTTGAGAAGACCGCAGTCAGCAATCCTGTCAAATCTGAACGTGAGGCACTGCTAGTGGGATCATCT  
 CCACATTCCTTCCAGTCCACCCATTTGGAGCCAGCATTGAATACATCTGTTTCTACTTGAATCGTCTCGA  
 TAATAAGGCAAGTACCAAATACCCAGCAAATTAACCCTTCTCCACTTACCAGTACGACCAGTGTGAT  
 GTGGAATCTCTCATGAGTAGACTCCAGCATACTTCAGACAGGAAATGACTGGAGTTGGAGCCAGCCTGG  
 AGAAGAGATGAAATTCGTGGTTTTGAGGGCTTGAAGCTGACCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001271449
- Insert Size:** 1797 bp
- 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:**

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

**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]

Transcript Variant: This variant (4) uses an alternate splice site in the 5' UTR, compared to variant 1. Variants 1, 2, 3, and 4 encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.