

## Product datasheet for **MR230585**

### Enox2 (NM\_001271451) Mouse Tagged ORF Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                         |
| Product Name:      | Enox2 (NM_001271451) 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:**

>MR230585 representing NM\_001271451  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGCTGCCTGTGTCTGATCCAGCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCTCCACTGG  
 GAATTGCTGGACAACCAATTTTACTGACTTCGATCCTGCCCTTGGGATGATGACTGGAATACCACCAAT  
 AACTCCCATGATGCCGGTTTGGGCATAGTCCCGCCACCGATTCTCCAGATATGCCGTAGCAAAGGAG  
 ATCATACACTGCAAAAGCTGCACGCTCTTCCCTCCCAACCCAAATCTTCCACCACCTGCAACACGAGAAA  
 GGCCACCAGGCTGTAAGACAGTGTGGTGGCTGCCTGAAAATGGGACAGAGCAGATCATTGTGGA  
 AGTGTTTGAACAGTGTGGAGAGATTATTGCTATCCGGAAGAGCAAAAAGAACTTCTGTACATTCGCTTT  
 GCTGAGGAATACATGGTGGACAAAGCCCTCTATCTGTCTGGTTACCGAATTCGTCTGGGCTAGTACTG  
 ACAAGAAGGACACAGGCCGCTCCATGTTGACTTTGCCAGGCTCGGGATGACTTATATGAGTGGGAGTG  
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGGCACCGTAGAAGGATGGAAGAAGAAAGAAATGCGTCCACCA  
 TCCCCACCTCCAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAACTCAAAGATGATT  
 CCAAATTCCTCGGAAGCTGTGCAGACCTTGTCACTGGATTGAGAGGGGGGAAGTGAACCGCCGAGTGC  
 CAACCACTTCTACTCCATGATCCAGTCAGCCAACAGCCATGTCCGCCGCTGGTAAATGAGAAAGCTACC  
 CATGAGAAAGAGATGGAAGAAGCAAAAGAGAAGTTCAAGCAGGCCCTTTCTGGAATTCCTATTCAATTTG  
 AGCAGATAGTAGCTGTGTACCATTCCGCTTCCAAAACAGAGGCATGGGACCACCTTCAAAAAGCACAACG  
 TAAAAACATCAGTGTGGTGCAAAACAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA  
 ATCAGAAGAGAAGAAGAAATGAAATGTCTGATGATGAAATAGAAGAGACAACAGAAAACAAAAGAAACGG  
 AGGAATCAGCCTTAGTGTACAGGCAGAAGCTCTGAAGGAGGAAAATGATAGCCTCCGCTGGCAGCTGGA  
 CGCATACCGGAATGAGGTAGAAGCTGCTCAACAGGAACAAGGCAAGCCACAGGAGGATGACCCAAAC  
 AAGGAACAGCAGCTGAAACTTCTGCAGCAAGCCCTACAAGGGATGCAACAGCATCTGCTCAAAGTCCAAG  
 AGGAATACAAAAGAAAGAAAGCTGAGCTTGACCGAATCAAAGACGACAATTTACAGGTAGAACAAGTGT  
 GGAAAAATTTTATGAAAAGCAGGAAAAGTGTGTTCTAGACTGTGTGCATCAAGCCAAGAAGGTGAGCAA  
 CCTCTTGAGAAGACCGCAGTCAGCAATCCTGTCAAATCTGAACGTGAGGCACTGCTAGTGGGATCATCT  
 CCACATTCCTTACGTCCACCCATTTGGAGCCAGCATTGAATACATCTGTTCTACTTGAATCGTCTCGA  
 TAATAAGATCAGCACCAGTGTGGAATCTCTCATGAGTAGACTCCAGCATACTTCCAGACAGGAAATG  
 ACTGGAGTTGGAGCCAGCCTGGAGAAGAGATGGAATTTCTGTGGTTTTGAGGGCTGAAGCTGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230585 representing NM\_001271451  
 Red=Cloning site Green=Tags(s)

MTLPVSDPAAWATAMNNLGMAPLGIAGQPILPDFDPALGMMTGIPPITPMPPLGIVPPPIPPDPMPVAKE  
 ITHCKSCTLFPPNPPLPPATRERPPGCKTVFVGGLPENGTQIIVEVFEQCGEIIAIRKSKKNFCHIRF  
 AEEYMVDKALYLSGYRIRLGSSTDKDGTGRLHVDFAQARDDLWECKQRMLAREERHRRMEERMRPP  
 SPPPVVHYSDFHCSIVAELKDDSKFSEAVQTLTWTIERGEVNRRSANHFYSMIQSANSHVRRLVNEKAT  
 HEKEMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNISVWCKQAEIIRNIHNDLMG  
 IRREEMEMSDDEIEETTETKETEEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEKGKAHREDDPN  
 KEQQLKLLQALQGMQQHLLKVQEEYKKEAELDRIKDDNLQVEQLLENFHEKQENCGSRLCASSQEGEQ  
 PLEKTAVSNPVKSEREALLVGIISTFLHVHPFGASIEYICSYLNRLDNKISTSDVESLMSRLQHTFRQEM  
 TGVGASLEKRWKFCGFGLKLT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

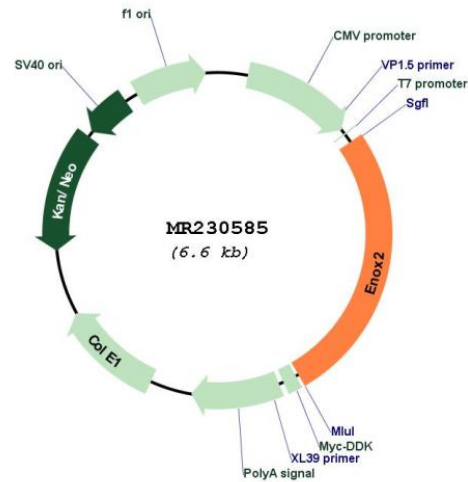
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001271451  
 ORF Size: 1746 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001271451.1</a> , <a href="#">NP_001258380.1</a>  |
| <b>RefSeq Size:</b>           | 3918 bp  |
| <b>RefSeq ORF:</b>            | 1749 bp  |
| <b>Locus ID:</b>              | 209224   |
| <b>Cytogenetics:</b>          | X A5   |
| <b>MW:</b>                    | 67 kDa   |
| <b>Gene Summary:</b>          | 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] |