

## Product datasheet for **MR209287**

### Enox2 (NM\_145951) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Enox2 (NM_145951) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR209287 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGCTGCCTGTGTCTGATCCAGCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCTCCACTGG  
 GAATTGCTGGACAACCAATTTTACTGACTTCGATCCTGCCCTTGGGATGATGACTGGAATACCACCAAT  
 AACTCCCATGATGCCGGTTTGGGCATAGTCCCGCCACCGATTCTCCAGATATGCCGTAGCAAAGGAG  
 ATCATACACTGCAAAAGCTGCACGCTCTTCCCTCCCAACCCAAATCTTCCACCACCTGCAACACGAGAAA  
 GGCCACCAGGCTGTAAGACAGTGTGGTGGCTGCCTGAAAATGGGACAGAGCAGATCATTGTGGA  
 AGTGTTTGAACAGTGTGGAGAGATTATTGCTATCCGGAAGAGCAAAAAGAACTTCTGTACATTCGCTTT  
 GCTGAGGAATACATGGTGGACAAAGCCCTCTATCTGTCTGGTTACCGAATTCGTCTGGGCTCTAGTACTG  
 ACAAGAAGGACACAGGCCGGCTCCATGTTGACTTTGCCAGGCTCGGGATGACTTATATGAGTGGGAGTG  
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGGCACCGTAGAAGGATGGAAGAAGAAAGAAATCGCTCCACCA  
 TCCCCACCTCCAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAACTCAAAGATGATT  
 CCAAATTCCTGGGAAGCTGTGCAGACCTTGTCACTGGATTGAGAGGGGGGAAGTGAACCGCCGAGTGC  
 CAACCACTTCTACTCCATGATCCAGTCAGCCAACAGCCATGTCCGCCGCTGGTAAATGAGAAAAGCTACC  
 CATGAGAAAAGAGATGGAAGAAGCAAAAGAGAAGTTCAAGCAGGCCCTTTCTGGAATTCCTATTCAATTTG  
 AGCAGATAGTAGCTGTGTACCATTCCGCTTCCAAAACAGAGGCATGGGACCACCTTCAAAAAGCACAACG  
 TAAAAACATCAGTGTGGTGCAAAACAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA  
 ATCAGAAGAGAAGAAGAAATGAAATGTCTGATGATGAAATAGAAGAGACAACAGAAAACAAAAGAACGG  
 AGGAATCAGCCTTAGTGTACAGGCAGAAGCTCTGAAGGAGGAAAATGATAGCCTCCGCTGGCAGCTGGA  
 CGCATACCGGAATGAGGTAGAAGCTGCTCAACAGGAACAAGGCAAGCCACAGGAGGATGACCCAAAC  
 AAGGAACAGCAGCTGAAACTTCTGCAGCAAGCCCTACAAGGGATGCAACAGCATCTGCTCAAAGTCCAAG  
 AGGAATACAAAAGAAAGAAAGCTGAGCTTGACCGAATCAAAGACGACAATTTACAGGTAGAACAAGTGT  
 GGAAAAATTTTATGAAAAGCAGGAAAAGTGTGTTCTAGACTGTGTGCATCAAGCCAAGAAGGTGAGCAA  
 CCTCTTGAGAAGACCGCAGTCAGCAATCTGTCAAATCTGAACGTGAGGCACTGCTAGTGGGATCATCT  
 CCACATTCCTTCCAGTCCACCCATTTGGAGCCAGCATTGAATACATCTGTTCTACTTGAATCGTCTCGA  
 TAATAAGGCAAGTACCAAATACCCAGCAAATTAACCCTTCTCCACTTACCAGTCCAGCACCAGTGTG  
 GTGGAATCTCTCATGAGTAGACTCCAGCATACCTTCCAGCAGGAAATGACTGGAGTTGGAGCCAGCCTGG  
 AGAAGAGATGAAATTCGTGGTTTTGAGGGCTTGAAGCTGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209287 protein sequence  
 Red=Cloning site Green=Tags(s)

MTLPVSDPAAWATAMNNLGMAPLGIAGQPILPDFDPALGMMTGIPPITPMPPLGIVPPPIPPDMPVAKE  
 I IHCKSCTLFPPNPPLPPATRERPPGCKTVFVGGLPENGTEQIIIVEVFEQCGEIIAIRKSKKNFCHIRF  
 AEEYMVDKALYLSGYRIRLGSSTDKDGTGRLHVDFAQARDDL YEWCKQRMLAREERHRRMEERMRPP  
 SPPPVVHYSDECSIVAELKDDSKFSEAVQTLT TWIERGEVNRRSANHFYSMIQSANSVRRRLVNEKAT  
 HEKEMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNI SVWCKQAEIIRNIHNDEL  
 MGIRREEEMEMSDDEIEETTETKETEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEQQKAHREDDPN  
 KEQQLKLLQQUALQGMQQHLLKVQEEYKKKEAELDRIKDDNLQVEQLLENFHEKQENCGSRLCASSQEGEQ  
 PLEKTAVSNPVKSEREALLVGIISTFLHVHPFGASIEYICSYLNRLDNKASYQIPSKLTTSPLLPISTSD  
 VESLMSRLQHTFRQEMTVGASLEKRWKFCGFEGKLKLT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_145951

**ORF Size:** 1797 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\\_145951.5](#)

**RefSeq Size:** 3921 bp

**RefSeq ORF:** 1797 bp

**Locus ID:** 209224

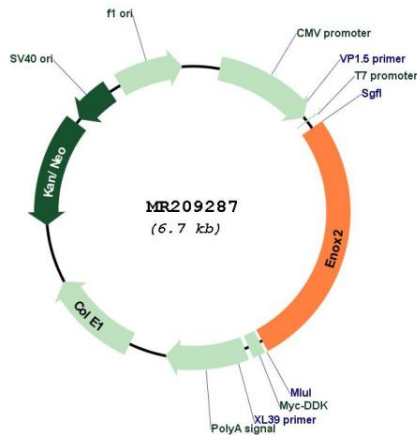
**UniProt ID:** [Q8R0Z2](#)

**Cytogenetics:** X A5

**MW:** 68.3 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 MR209287