

## Product datasheet for **RC217668**

### **ENOX2 (NM\_182314) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ENOX2 (NM_182314) Human 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:**

>RC217668 representing NM\_182314  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCAAAGAGATTTTAGATGGCTGTGGGTCTACGAAATAGGCTATGCAGCCGATAACAGTAGAACTCTGA  
 ACGTGGATTCCACTGCAATGACACTACCTATGTCTGATCCAACATGCATGGGCCACAGCAATGAATAATCT  
 TGGAATGGCACCCGCTGGGAATTCGCCGACAACCAATTTTACCTGACTTTGATCCTGCTCTTGAATGATG  
 ACTGGAATTCCACCAATAACTCCAATGATGCCTGGTTTGGGAATAGTACCTCCACCAATTCCTCCAGATA  
 TGCCAGTAGTAAAAGAGATCATACTGTAAAAGCTGCACGCTTCCCTCCAAATCCAAATCTCCACC  
 TCCTGCAACCCGAGAAAGACCACCAGGATGCAAAACAGTATTTGTGGTGGTCTGCCTGAAAATGGGACA  
 GAGCAATCATTGTGGAAGTTTTGAGCAGTGTGGAGAGATCATTGCCATTGCAAGAGCAAGAAGAACT  
 TCTGCCACATTCGCTTTGCTGAGGAGTACATGGTGGCAAAGCCCTGTATCTGTCTGGTTACCGCATTCCG  
 CCTGGGCTCTAGTACTGACAAGAAGGACACAGGCAGACTCCACGTTGATTCGCACAGGCTCGAGATGAC  
 CTGTATAGTGGGAGTGTAAACAGCGTATGCTAGCCAGAGAGGAGCGCCATCGTAGAAGAATGGAAGAAG  
 AAAGATTGCGTCCACCATCTCCACCCCAAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGA  
 AAAATTAAGAGATGATTCAAAATTTCTCAGAAGCTGTACAGACCTTCTTACCTGGATAGAGCGAGGAGAG  
 GTCAACCGTCGTAGCGCAATAACTTCTACTCCATGATCCAGTCGGCCAACAGCCATGTCGCCCGCTGG  
 TGAACGAGAAAGCTGCCATGAGAAAGATATGGAAGAAGCAAAGGAGAAGTTCAAGCAGGCCCTTTCTGG  
 AATTCTCATTCAATTTGAGCAGATAGTGGCTGTGTACCATTCCGCCTCCAAGCAGAAGGCATGGGACCAC  
 TTCACAAAAGCCAGCGGAAGAACATCAGCGTGTGGTGAACAAGCTGAGGAAATTCGCAACATTCATA  
 ATGATGAATTAATGGGAATCAGGCGAGAAGAAGAAATGGAAATGTCTGATGATGAATAGAAGAAATGAC  
 AGAAACAAAAGAAACTGAGGAATCAGCCTTAGTATCACAGGCAGAAGCTCTGAAGGAAGAAAATGACAGC  
 CTCGTTGGCAGCTCGATGCCTACCGGAATGAAGTAGAACTGCTCAAGCAAGAACAAGGCAAAAGTCCACA  
 GAGAAGATGACCCTAACAAAAGACAGCAGCTGAACTCCTGCAACAAGCCCTGCAAGGAATGCAACAGCA  
 TCTACTCAAAGTCCAAGAGGAATACAAAAGAAAGAAAGCTGAACTTGAAAACTCAAAGATGACAAGTTA  
 CAGGTGAAAAAATGTTGAAAAATCTTAAAGAAAAGAAAGCTGTGCTTCTAGGCTGTGTGCTCAAACC  
 AGGATAGCGAATACCCTTTGAGAAGACCATGAACAGCAGTCTATCAAATCTGAACGTGAAGCACTGCT  
 AGTGGGATTATCTCCACATTCCTCATGTTACCCATTTGGAGCAAGCATTGAATACATCTGTTCTAC  
 TTGCACCGTCTTGATAATAAGATCTGCACCAGCGATGTGGAGTGTCTCATGGGTAGACTCCAGCATACCT  
 TCAAGCAGGAAATGACTGGAGTTGGAGCCAGCCTGAAAAAGAGATGGAATTCGTGGCTTCGAGGGCTT  
 GAAGCTGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC217668 representing NM\_182314  
 Red=Cloning site Green=Tags(s)

MQRDRFWLWVYEIGYAADNSRNLNVDSTAMTLPMSDPTAWATAMNNLGMAPLGIAGQPILPDFDPALGMM  
 TGIPPIIPMPPLGLIVPPPIPPDPVVKELIHKSCFLFPPNPNLPPPATRERPPGCKTVFVGGLPENGT  
 EQIIVEVFEQCGEIIAIRKSKNFCHIRFAEYEMVDKALYLSGYRIRLGSSTDKKDTGRLHVDFQAQARD  
 LYEWECKQRMLAREERHRRRMEERLRPPSPPPVVHYSDECSIVAEKLDKDSKFSEAVQTLTWTIERGE  
 VNRRSANNFYSMIQSANSVHRRVNEKAAHEKDMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDH  
 FTKAQRKNI SVWCKQAEELRNHNDEL MGIRREEMEMSDDEIEEMTETKETEESALVSQAEALKEENDS  
 LRWQLDAYRNEVELLKQEQQKVHREDDPNKEQLKLLQQALQGMQHLKLVQEEYKKEAELEKLDKDL  
 QVEKMLENLKEKESASRLCASNQDSEYPLEKTMNSSPIKSEREALLVGIISTFLHVHPFGASIEYICSY  
 LHRLDNKICTSDVECLMGRLQHTFKQEMTGVGASLEKRWKFCGFEGFLKT

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_182314

ORF Size: 1830 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_182314.3](#)

RefSeq Size: 4184 bp

RefSeq ORF: 1833 bp

Locus ID: 10495

UniProt ID: [Q16206](#)

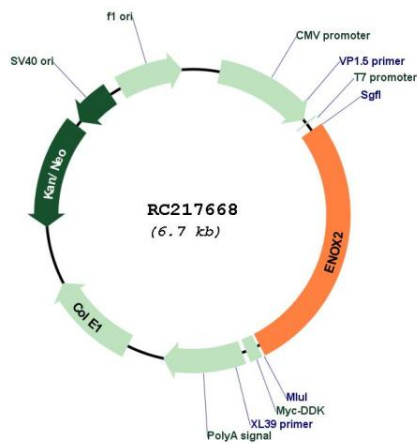
Cytogenetics: Xq26.1

Protein Families: Secreted Protein

MW: 69.9 kDa

**Gene Summary:** This gene is a tumor-specific member of the ECTO-NOX family of genes that encode cell surface NADH oxidases. The encoded protein has two enzymatic activities: catalysis of hydroquinone or NADH oxidation, and protein disulfide interchange. The protein also displays prion-like properties. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

**Product images:**



Circular map for RC217668