

Product datasheet for **RC238975**

ENOX2 (NM_001281736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENOX2 (NM_001281736) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RC238975 representing NM_001281736
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACACTACCTATGTCTGATCCAACCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCACCCTGG
 GAATTGCCGGACAACCAATTTTACCTGACTTTGATCCTGCTCTTGAATGATGACTGGAATTCACCAAT
 AACTCCAATGATGCCTGGTTTGGGAATAGTACCTCCACCAATTCCTCCAGATATGCCAGTAGTAAAAGAG
 ATCATACACTGTAAAAGCTGCACGCTCTCCCTCCAAATCCAAATCTCCACCTCCTGCAACCCGAGAAA
 GACCACCAGGATGCAAAACAGTATTTGTGGTGGTCTGCCTGAAAATGGGACAGAGCAAATCATTGTGGA
 AGTTTTCGAGCAGTGTGGAGAGATCATTGCCATTCGAAGAGCAAGAAGAACTTCTGCCACATTCGCTTT
 GCTGAGGAGTACATGGTGGACAAAGCCCTGTATCTGTCTGGTACCGCATTCGCCTGGGCTCTAGTACTG
 ACAAGAAGGACACAGGCAGACTCCACGTTGATTCGCACAGGCTCGAGATGACCTGTATGAGTGGGAGTG
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGCCATCGTAGAAGAATGGAAGAAGAAAGATTGCGTCCACCA
 TCTCCACCCCGAGTGGTCCAATTCAGATCATGAATGCAGCATTGTTGCTGAAAAATAAAAGATGATT
 CCAAAATCTCAGAAGCTGTACAGACCTTGTACTGGATAGAGCGAGGAGAGGTCAACCGTCGTAGCGC
 CAATAACTTCTACTCCATGATCCAGTCGGCCAACAGCCATGTCCGCCCTGGTGAACGAGAAAGCTGCC
 CATGAGAAAGATGGAAGAAGCAAAGGAGAAGTTCAGCAGGCCCTTTCTGGAATTCATTCAATTTG
 AGCAGATAGTGGCTGTGTACCATTCGCCTCCAAGCAGAAGGCATGGGACCACCTCACAAAAGCCAGCG
 GAAGAACATCAGCGTGTGGTGAACAAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA
 ATCAGCGGAGAAGAAGAAATGAAATGTCTGATGATGAAATAGAAGAAATGACAGAAAACAAAAGAACTG
 AGGAATCAGCCTTAGTATCACAGGCAGAAGCTCTGAAGGAAGAAATGACAGCCTCCGTTGGCAGCTCGA
 TGCTACCGGAATGAAGTAGAAGTGTCTCAAGCAAGAACAAGGCAAGTCCACAGAGAAGATGACCCCTAAC
 AAAGAACAGCAGCTGAAACTCCTGCAACAGCCCTGCAAGGAATGCAACAGCATCTACTCAAAGTCCAAG
 AGGAATACAAAAGAAAGAAAGCTGAACTTGAAAACTCAAAGTGAACAAGTTACAGGTGGAAAAATGTT
 GGAAAACTTAAAGAAAAGGAAAGCTGTGCTTCTAGGCTGTGTGCCTCAAACCAGGATAGCGAATACCTT
 CTTGAGAAGACCATGAACAGCAGTCTATCAAATCTGAACGTGAAGCACTGCTAGTGGGGATTATCTCCA
 CATTCTTCATGTTACCCATTTGGAGCAAGCATTGAATACATCTGTTCTACTTGCACCGTCTTGATAA
 TAAGATCTGCACCAGGATGTGGAGTGTCTCATGGGTAGACTCCAGCATACTTCAAGCAGGAAATGACT
 GGAGTTGGAGCCAGCCTGAAAAGAGATGGAATTCGTGGCTTCGAGGGCTTGAAGCTGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238975 representing NM_001281736
 Red=Cloning site Green=Tags(s)

MTLPMSDPTAWATAMNNLGMAPLGIAGQPILPDFDPALGMMTGIPPITPMPGLGIVPPPIPPDPMPVKE
 I IHCKSCTLFPPNPNLPPPATRRERPPGCKTVFVGLPENGTQIIVEVFEQCGEIIAIRKSKKNFCHIRF
 AEEYMDKALYLSGYRIRLGSSTDKKDTGRLHVDFAQARDDL YEWCKQRMLAREERHRRMEERLRPP
 SPPPVVHYSDECSIVAELKDDSKFSEAVQTLT WIERGEVNRRSANNFYSMIQSANSVRRRLVNEKAA
 HEKDMEEAKEFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNISVWCKQAEERIRNIHNDEL
 MGIRREEEMEMSDDEIEEMTETKETEEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEQQKVHREDDPN
 KEQQLKLLQQALQGMQQHLLKVQEEYKKEAELEKLDKQLQVEKMLENLKEKESASRLCASNQDSEYP
 LEKTMNSSPIKSEREAALLVGIISTFLHVHPFGASIEYICSYLHRLDNKICTSDVECLMGLRQHTFKQEMT
 VVGASLEKRWKFCGFEGCLKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4432_d07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001281736

ORF Size: 1743 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_001281736.1](#), [NP_001268665.1](#)

RefSeq Size: 4036 bp

RefSeq ORF: 1746 bp

Locus ID: 10495

UniProt ID: [Q16206](#)

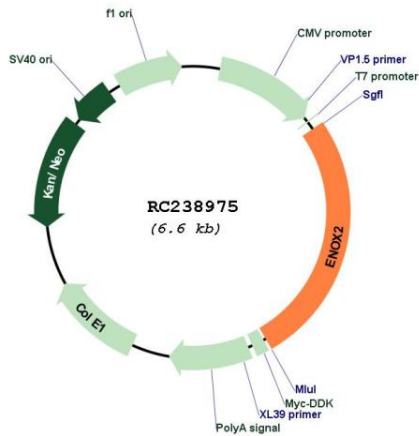
Cytogenetics: Xq26.1

Protein Families: Secreted Protein

MW: 66.6 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 RC238975