

## Product datasheet for **SC314094**

### **ENOX2 (NM\_006375) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ENOX2 (NM_006375) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENOX2
Synonyms:	APK1; COVA1; tNOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

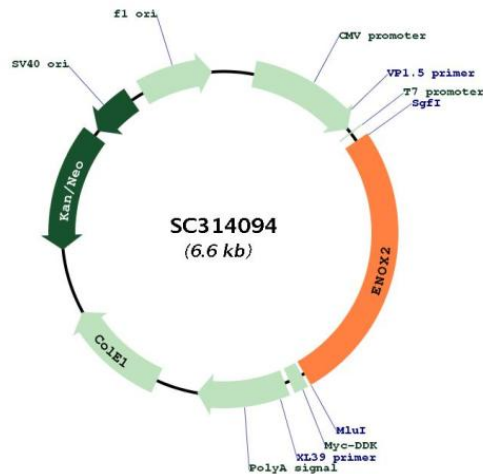


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**Fully Sequenced ORF:** >SC314094 representing NM\_006375.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACACTACCTATGCTGTATCCAATGCATGGCCACAGCAATGAATAATCTTGAATGGCACCCTG
GGAAATGCCGGACAACCAATTTTACCTGACTTTGATCCTGCTCTTGAATGATGACTGGAATCCACCA
ATAACTCCAATGATGCCCTGGTTTGGGAATAGTACCTCCACCAATCCTCCAGATATGCCAGTAGTAAAA
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GAAAGACCACCAGGATGCAAAACAGTATTTGTGGTGGTCTGCCTGAAAAATGGGACAGAGCAAAATCATT
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TGGGAGTGTAAACAGCGTATGCTAGCCAGAGAGGAGCGCCATCGTAGAAGAATGGAAGAAGAAAGATTG
CGTCCACCATCTCCACCCCAAGTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAATTA
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CGTCGTAGCGCCAATAAATTCTACTCCATGATCCAGTCGGCCAACAGCCATGTCCGCCGCTGGTGAAC
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AGAGAAGATGACCCTAACAAAGAAGCAGCAGCTGAACTCCTGCAACAAGCCCTGCAAGGAATGCAACAG
CATCTACTCAAAGTCCAAGAGGAATACAAAAGAAAGAAAGCTGAACTTAAAAACTCAAAGATGACAAG
TTACAGGTGGAAGAAATGTTGGAAGAAATCTAAAGAAAGAAAGCTGTGCTTCTAGGCTGTGTGCCTCA
AACCAGGATAGCGAATACCCTCTTGAGAAGACCATGAACAGCAGTCTATCAAATCTGAACGTGAAGCA
CTGCTAGTGGGATTATCTCCACATTCCTTATGTTACCCATTTGGAGCAAGCATTGAATACATCTGT
TCCTACTGCACCGTCTTGATAAAGATCTGCACCAGCGATGTGGAGTGTCTCATGGGTAGACTCCAG
CATACTTCAAGCAGGAAATGACTGGAGTTGGAGCCAGCTGAAAAGAGATGGAATTTCTGTGGCTTC
GAGGGCTTGAAGCTGACCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

**Restriction Sites:** SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_006375

**Insert Size:** 1746 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_006375.3](#)

**RefSeq Size:** 4180 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]  
Transcript Variant: This variant (1) differs in the 5' UTR and the 5' coding region and initiates translation at a downstream start codon, compared to variant 2. Variants 1 and 3 encode the same isoform (a) which is shorter at the N-terminus, compared to isoform b.