

Product datasheet for **RG224209**

ENOX2 (NM_006375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENOX2 (NM_006375) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENOX2
Synonyms:	APK1; COVA1; tNOX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG224209 representing NM_006375
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACTACCTATGTCTGATCCAACCTGCATGGGCCACAGCAATGAATAATCTTGAATGGCACCCTGG
 GAATTGCCGGACAACCAATTTTACTGACTTTGATCCTGCTCTTGAATGATGACTGGAATTCCACCAAT
 AACTCCAATGATGCCTGGTTTGGGAATAGTACCTCCACCAATTCCTCCAGATATGCCAGTAGTAAAAGAG
 ATCATACACTGTAAAAGCTGCACGCTCTTCCCTCCAAATCCAAATCTCCACCTCCTGCAACCCGAGAAA
 GACCACCAGGATGCAAAACAGTATTTGTGGTGGTCTGCCTGAAAATGGGACAGAGCAAATCATTGTGGA
 AGTTTTCGAGCAGTGTGGAGAGATCATTGCCATTCGAAGAGCAAGAAGAACTTCTGCCACATTCGCTTT
 GCTGAGGAGTACATGGTGGACAAAGCCCTGTATCTGTCTGGTACCGCATTCGCCTGGGCTCTAGTACTG
 ACAAGAAGGACACAGGCAGACTCCACGTTGATTCGCACAGGCTCGAGATGACCTGTATGAGTGGGAGTG
 TAAACAGCGTATGCTAGCCAGAGAGGAGCGCCATCGTAGAAGAATGGAAGAAGAAAGATTGCGTCCACCA
 TCTCCACCCCACTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAATAAAAGATGATT
 CCAAAATCTCAGAAGCTGTACAGACCTTGTACTGGATAGAGCGAGGAGAGGTCAACCGTCGTAGCGC
 CAATAACTTCTACTCCATGATCCAGTCGGCCAACAGCCATGTCCGCCCTGGTGAACGAGAAAGCTGCC
 CATGAGAAAGATATGGAAGAAGCAAAGGAGAAGTTCAGCAGGCCCTTTCTGGAATTCTCATTCAATTTG
 AGCAGATAGTGGCTGTGTACCATTCCGCCTCCAAGCAGAAGGCATGGGACCACCTCACAAAAGCCGAGCG
 GAAGAACATCAGCGTGTGGTGAACAAGCTGAGGAAATTCGCAACATTCATAATGATGAATTAATGGGA
 ATCAGGCGAGAAGAAGAAATGAAATGTCTGATGATGAAATAGAAGAAATGACAGAAAACAAAAGAACTG
 AGGAATCAGCCTTAGTATCACAGGCAGAAGCTCTGAAGGAAGAAATGACAGCCTCCGTTGGCAGCTCGA
 TGCCATACCGGAATGAAGTAGAAGTGTCTCAAGCAAGAACAAGGCAAGTCCACAGAGAAGATGACCCCTAAC
 AAAGAACAGCAGCTGAAACTCCTGCAACAAGCCCTGCAAGGAATGCAACAGCATCTACTCAAAGTCCAAG
 AGGAATACAAAAGAAAGAAAGCTGAACTTGAAAACTCAAAGATGACAAGTTACAGGTGGAAAAATGTT
 GGAAAACTTAAAGAAAAGGAAAGCTGTGCTTCTAGGCTGTGTGCCTCAAACCAGGATAGCGAATACCCCT
 CTTGAGAAGACCATGAACAGCAGTCCTATCAAATCTGAACGTGAAGCACTGCTAGTGGGGATTATCTCCA
 CATTCTTCATGTTACCCATTTGGAGCAAGCATTGAATACATCTGTTCTACTTGCACCGTCTTGATAA
 TAAGATCTGCACCAGCGATGTGGAGTGTCTCATGGGTAGACTCCAGCATACTTCAAGCAGGAAATGACT
 GGAGTTGGAGCCAGCCTGAAAAGAGATGAAATTTCTGTGGCTTCGAGGGCTTGAAGCTGACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG224209 representing NM_006375
 Red=Cloning site Green=Tags(s)

MTLPMSDPTAWATAMNNLGMAPLGIAGQPILPDFDPALGMMTGIPPITPMPPLGIVPPPIPPDPMPVVE
 ITHCKSCTLFPPNPNLPPPATRERPPGCKTVFVGGLPENGTEQIIIVEVFEQCGEIIAIRKSKKNFCHIRF
 AEEYMVDKALYLSGYRIRLGSSTDKKDTGRLHVDFAQARDDL YEWCKQRMLAREERHRRRMEERLRPP
 SPPPVVHYSDECSIVAELKDDSKFSEAVQTLT TWIERGEVNRRSANNFYSMIQSANSVHRRRLVNEKAA
 HEKDMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNISVWCKQAEIIRNIHNDEL MG
 IRREEEMEMSDEIEEMTETKETEEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEQQKVHREDDPN
 KEQQLKLLQALQGMQQHLLKVQEEYKKKEAELEKLDKDLQVEKMLENLKEKESCASRLCASNQDSEYP
 LEKTMNSSPIKSEREALLVGIISTFLHVHPFGASIEYICSYLHRLDNKICTSDVECLMGRLQHTFKQEMT
 VVGASLEKRWKFCGFEGCLKT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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 , NP_006366.2
RefSeq Size:	4095 bp
RefSeq ORF:	1746 bp
Locus ID:	10495
UniProt ID:	Q16206
Cytogenetics:	Xq26.1
Protein Families:	Secreted Protein
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]