

Product datasheet for **RG238975**

ENOX2 (NM_001281736) Human Tagged ORF Clone

Product data:

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

>RG238975 representing NM_001281736.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
 ATGACACTACCTATGCTGTATCCAATGCATGGCCACAGCAATGAATAATCTTGAATGGCACCCTG
 GGAATGGCCGACAACCAATTTTACTGACTTTGATCCTGCTCTTGAATGATGACTGGAATTCACCA
 ATAACCTCAATGATGCCTGGTTTGGGAATAGTACCTCCCAATTCCTCCAGATATGCCAGTAGTAAAA
 GAGATCATACACTGTAAAAGCTGCACGCTCTTCCCTCCAATCCAATCTCCACCTCTGCAACCCGA
 GAAAGACCACCAGGATGCAAAACAGATTTGTGGTGGTCTGCCTGAAAAATGGGACAGAGCAAAATCATT
 GTGGAAGTTTTGAGCAGTGTGGAGAGATCATTGCCATTCGAAGAGCAAGAAGAACTTCTGCCACATT
 CGCTTTGCTGAGGAGTACATGGTGGACAAAGCCCTGTATCTGTCTGGTTACCGCATTGCGCTGGGCTCT
 AGTACTGACAAGAAGGACACAGGCAGCTCCACGTTGATTTGCGACAGGCTCGAGATGACCTGTATGAG
 TGGGAGTGTAAACAGCGTATGCTAGCCAGAGAGGAGCGCCATCGTAGAAGAATGGAAGAAGAAAGATTG
 CGTCCACCATCTCCACCCCACTGGTCCACTATTCAGATCATGAATGCAGCATTGTTGCTGAAAAATTA
 AAAGATGATTCCAATTCAGAAAGCTGTACAGACCTTGCTTACCTGGATAGAGCGAGGAGAGGTCAAC
 CGTCGTAGCGCCAATAACTTCTACTCCATGATCCAGTCGGCCAACAGCCATGTCCGCCCGCTGGTGAAC
 GAGAAAGCTGCCATGAGAAAGATATGGAAGAAGCAAAGGAGAAGTTCAAGCAGGCCCTTTCTGGAATT
 CTCATTCAATTTGAGCAGATAGTGGCTGTGTACCATTCGCCCTCCAAGCAGAAGGCATGGGACCACTTC
 ACAAAGCCAGCGGAAGAACATCAGCGTGTGGTGCAACAAGCTGAGGAAATTCGCAACATTCATAAT
 GATGAATTAATGGGAATCAGGCGAGAAGAAGAAATGGAATGTCTGATGATGAAATAGAAGAAATGACA
 GAAACAAAAGAACTGAGGAATCAGCCTTAGTATCACAGGCAGAAGCTCTGAAGGAAGAAATGACAGC
 CTCCGTTGGCAGCTCGATGCCTACCGGAATGAAGTGAAGTCAAGCAAGAACAAGGCAAGTCCAC
 AGAGAAGATGACCCTAACAAAGAAGCAGCAGCTGAAACTCTGCAACAAGCCCTGCAAGGAATGCAACAG
 CATCTACTCAAAGTCCAAGAGGAATACAAAAAGAAAGCTGAACTTGAAAAACTCAAAGATGACAAG
 TTACAGGTGGAATAATGTTGAAAAATCTTAAAGAAAAGGAAAGCTGTGCTTCTAGGCTGTGTGCCTCA
 AACCAGGATAGCGAATACCCTCTTGAGAAGACCATGAACAGCAGTCTATCAAATCTGAACGTGAAGCA
 CTGCTAGTGGGATTATCTCCACATTCCTTATGTTACCCATTTGGAGCAAGCATTGAATACATCTGT
 TCCTACTGCACCGTCTTGATAAAGATCTGCACCAGCGATGTGGAGTGTCTCATGGGTAGACTCCAG
 CATACTTCAAGCAGGAAATGACTGGAGTTGGAGCCAGCTGAAAAGAGATGGAATTCGTGGCTTC
 GAGGGCTTGAAGCTGACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG238975
 Blue=ORF Red=Cloning site Green=Tag(s)

MTLPMSDPTAWATAMNNLGMAPLGIAGQPILPDFPALGMMTGIPPITPMPPLGIVPPPIPPDMPVVK
 EIIHCKSCTLFPPNPNLPPPATRERPPGCKTVFVGGLPENGEQIIVEVFEQCGEIIAIRKSKKNFCHI
 RFEEYVMDKALYLSGYRIRLGSSTDKKDTGRLHVDFQAQARDL YEWCKQRMLAREERHRRRMEERL
 RPPSPPPVVHYSDECSIVAELKDDSKFSEAVQTLTWTIERGEVNRRSANNFYSMIQSANSHVRRLVN
 EKAHEKDMEEAKEKFKQALSGILIQFEQIVAVYHSASKQKAWDHFTKAQRKNISVWCKQAEIRNIHN
 DELMGIIRREEMEMSDDEIEEMTETKETEEESALVSQAEALKEENDSLRWQLDAYRNEVELLKQEQKVH
 REDDPNKEQQLKLLQQALQGMQQLLKVQEEYKKEAELEKLDKDKLQVEKMLENLKEKESASCASRLCAS
 NQDSEYPLEKTMNSSPIKSEREALLVGIISTFLHVHPFGASIEYICSYLHRLDNKICTSDVECLMGRLO
 HTFKQEMTGVGASLEKRWKFCGFELKLT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIIRSNAVHELHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites:

Sgfl-Mlul

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).
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]