

Product datasheet for **RG234643**

ENOX1 (NM_001242863) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ENOX1
Synonyms:	bA64J21.1; cCNOX; CNOX; PIG38
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG234643 representing NM_001242863
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTAGATGCAGGTGGAGTTGAGAACATACCCAGCTTCCCAGGAGCTTCTCAGATGATGGCTGCAG
 CAGCCGATGGTTTGGGGAGTATAGCGATAGACACGACCCAGCTCAACATGTCCGTGACAGATCCCACAGC
 CTGGGCTACAGCCATGAATAACCTGGGCATGGTCCCCTAGGGTTGCCTGGACAGCAGCTCGTGTCTGAC
 TCAATCTGTGTCCAGGCTTTGATCCAAGCCTCAACATGATGACTGGAATCACCCCCATTAAACCAATGA
 TACCAGGCTTGGACTGGTACCTCCCCACCACCAAGAAGTGGCTGTTGTCAAAGAAATAATCCAATG
 CAAAAGCTGTACTCTTTTCTCAAAATCCAAATCTTCCACCTCCTTCCACAAGAGAAGCAGCTCCTGGG
 TGTAAGACCGTGTTTGTGCGAGGATTACCAGAAAATGCTACTGAGGAAATTATTCAAGAAAGTCTTTGAAC
 AGTGCGGTGATATTACAGCAATTCGGAAGCAAGAAGAAATTTTGTACATTGCTTTGACAGGAATT
 CATGGTTGATAAAGCCATTTACCTTTCTGGTTATAGGATGCGATTAGGGTCTAGACCGACAAAAAGGAT
 TCAGGCCGCTTCATGTGACTTTGCCAGGCCAGGGATGACTTCTATGAGTGGGAATGCAAGCAGAGGA
 TGCGTGCCCGGAGGAGCGGCACCGCGCAAGCTGGAGGAGGACCGGCTCAGGCCCCATCCCCGCTGC
 CATAATGCACTACTCGGAGCACGAAGCCGCTCTGCTGGCTGAAAAGCTGAAAGATGATAGCAAGTTTCA
 GAGGCTATCAGTGCTGCTTCTCTGGATTGAACGAGGGGAAGTGAATCGGCGCTCTGCAAAACGATTCT
 ATTCCATGGTGCAGTCGGCCAACAGCCACGTCCGCCGGCTAATGAATGAAAAAGCCACCATGAGCAAGA
 GATGGAGGAAGCCAGGAGAATTTTAAAAATGCCTTAAGTGGGATTCTCACTCAATTTGAGCAGATTGTG
 GCCGTTTTCAACGTTCTACCAGACAAAAAGCTTGGGACCATTTCTCGAAAGCCAGCGCAAGAACATAG
 ACATTTGGCGAAAGCATTCTGAGGAGCTCCGAATGCTCAAAGTGAGCAGCTCATGGGCATCCGCCGCGA
 AGAAGAAATGGAAATGTCTGATGATGAGAACTGTGACAGCCCTACAAAGAAAAATGAGAGTCGATGAATCA
 GCCCTGGCTGCCAGGCCTACGCTCTGAAAGAGGAGAATGACAGTCTCCGCTGGCAGCTGGATGCCTACA
 GGAATGAGGTGGAGCTGCTGAAACAAGAAAAAGAACAGCTTTTCCGAACAGAAGAAAACCTACCAAGGA
 CCAGCAACTGCAGTTTCTGCAGCAAAACATGCAAGGCATGCAGCAGCAATTGCTAACCATCCAGGAGGAG
 TTAACAACAACAAAAAGTCAGAAATGGAAACAAGCAAGGAAGAGCAGTCCCATACACAAGCGTTACTAAAG
 TCCTGCAGGAACAATTAAGGTACCAAGGAATTGGTCGAGACCAATGGCCACAGCCATGAGGATTCAAA
 TGAAATCAATGTGTGACAGTTGCATTAGTCAACCAAGACCGAGAGAACAATATTGAGAAAAGAAGCCAA
 GGCTTAAATCAGAGAAAGAAGCTCTGCTAATAGGTATCATATCAACGTTTCTTACGTCCATCCTTTTG
 GAGCCAAACATAGAATATCTTTGGTCATACATGCAGCAGCTGGACTCCAAGATATCTGCAAAATGAAATAGA
 AATGCTTTTGATGAGGCTGCCACGCATGTTCAAACAGGAATTCACGGGTGTGGGAGCCACGCTGGAAGAA
 AGATGGAAGCTGTGTGCTTTGAAGGAATTAAGTACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234643 representing NM_001242863
 Red=Cloning site Green=Tags(s)

MVDAGGVENITQLPQELPQMMAAADGLGSIAIDTTQLNMSVTDPTAWATAMNNLGMVPVGLPGQQLVSD
 SICVPGFDPSLNMTGITPINPMIPGLGLVPPPPTEVAVVKEIIHCKSCTLPQNPPLPPSTRERPPG
 CKTVFVGGLPENATEEIIQEVFEQCGDITAIRKSKNFCIRFAEEFMVDKAIYLSGYRMLGSSTDKKD
 SGRLHVDFAQARDDFYWECKQRMRAERHRKLEEDRLRPPSPPAIMHYSEHEAALLAEKLKDDSKFS
 EAITVLLSWIERGEVNRNSANQFYSMVQSANSVRRMLMNEKATHEQEMEEAKENFKNALTGILTQFEQIV
 AVFNASTRQKAWDFHFSKAQRKNIDIWRKHSEELRNAQSEQLMGIRREEMEMSDDENCDSPTKKMRVDES
 ALAAQAYALKEENDSLRWQLDAYRNEVELLKQEKEQLFRTEENLTKDQQLQFLQQTMQGMQQLLTIQEE
 LNNKSELEQAKEEQSHTQALLKVLQEQLKGTEL VETNGHSHEDSNEINVL TVALVNQDRENNIEKRSQ
 GLKSEKEALLIGIISTFLHVHPFGANIEYLWSYMQQLDSKISANEIEMLLMRLPRMFKEFTGVGATLEK
 RWKLCAFEGIKTT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001242863

ORF Size: 1929 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.

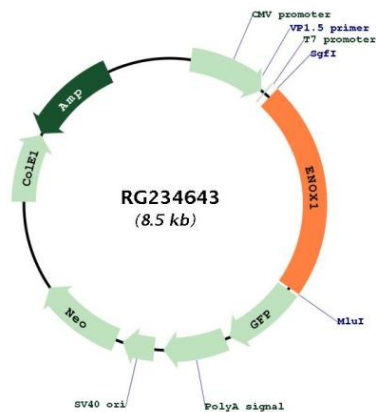
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001242863.3](#)

RefSeq Size: 3021 bp
 RefSeq ORF: 1932 bp
 Locus ID: 55068
 UniProt ID: [Q8TC92](#)
 Cytogenetics: 13q14.11

Gene Summary: The protein encoded by this gene is involved in plasma membrane electron transport pathways. The encoded protein has both a hydroquinone (NADH) oxidase activity and a protein disulfide-thiol interchange activity. The two activities cycle with a periodicity of 24 minutes, with one activity being at its peak when the other is at its lowest. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RG234643