

## Product datasheet for **RG226055**

### **ENOX1 (NM\_001127615) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | ENOX1 (NM_001127615) Human Tagged ORF Clone |
| 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:**

>RG226055 representing NM\_001127615  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGTAGATGCAGGTGGAGTTGAGAACATCACCCAGCTTCCCAGGAGCTTCCTCAGATGATGGCTGCAG  
 CAGCCGATGGTTTGGGGAGTATAGCGATAGACAGCACCCAGCTCAACATGTCCGTGACAGATCCCACAGC  
 CTGGGCTACAGCCATGAATAACCTGGGCATGGTCCCGTAGGGTTGCTGGACAGCAGCTCGTGTCTGAC  
 TCAATCTGTGTCCAGGCTTTGATCCAAGCCTCAACATGATGACTGGAATCACCCCATTAACCCATGA  
 TACCAGGCCTTGGACTGGTACCTCCCCACCACCAACAGAAGTGCTGTTGTCAAAGAAATAATCCACTG  
 CAAAAGCTGTACTCTTTTCTCAAAATCCAAATCTTCCACCTCCTTCCACAAGAGAACGACCTCCTGGG  
 TGTAAGACCGTGTGTGCGGAGGATTACCAGAAAATGCTACTGAGGAAATTATTCAAGAAGTCTTTGAAC  
 AGTGCGGTGATATTACAGCAATTCGAAAAGCAAGAAGAATTTTGTACATTGCTTTGCAGAGGAATT  
 CATGGTTGATAAAGCCATTTACCTTTCTGGTTATAGGATGCGATTAGGGTCTAGCACCGACAAAAAGGAT  
 TCAGGCCGCCCTTTCATGTGGACTTTGCCAGGCCAGGGATGACTTCTATGAGTGGGAATGCAAGCAGAGGA  
 TCGGTGCCCGGAGGAGCGGCACCGCGCAAGCTGGAGGAGGACCGCTCAGGCCCATCCCCGCTGC  
 CATAATGCACTACTCGGAGCACGAAGCCGCTCTGCTGGCTGAAAAGCTGAAAGATGATAGCAAGTTTCA  
 GAGGCTATCACAGTGTGCTTTCTGGATTGAACGAGGGGAAGTGAATCGGCGCTCTGCAAACAGTTCT  
 ATTCCATGGTGCAGTCGGCAACAGCCACGTCCGCCGGCTAATGAATGAAAAAGCCACCCATGAGCAAGA  
 GATGGAGGAAGCAAGGAGAATTTAAAAATGCCTTAAGTGGGATTCTCACTCAATTTGAGCAGATTGTG  
 GCCGTTTTCAACGCTTCTACCAGACAAAAAGCTTGGGACCATTCTCGAAAGCCAGCGCAAGAACATAG  
 ACATTTGGCGAAAGCATTCTGAGGAGCTCCGGAATGCTCAAAGTGAGCAGCTCATGGGCATCCGCCGCGA  
 AGAAGAAATGGAATGTCTGATGATGAGAACTGTGACAGCCCTACAAAGAAAATGAGAGTCGATGAATCA  
 GCCCTGGCTGCCAGGCCTACGCTCTGAAAGAGGAGAATGACAGTCTCCGCTGGCAGCTGGATGCCTACA  
 GGAATGAGGTGGAGCTGCTGAAACAAGAAAAAGAACAGCTTTTCCGAACAGAAGAAAACCTCACCAAGGA  
 CCAGCAACTGCAGTTTCTGCAGCAAAACCATGCAAGGCATGCAGCAGCAATTGCTAACCATCCAGGAGGAG  
 TTAAACAACAAAAAGTCAGAAATTGGAACAAGCAAGGAAGAGCAGTCCCATACACAAGCGTTACTAAAAG  
 TCCTGCAGGAACAATTAAGGTACCAAGGAATTGGTCGAGACCAATGGCCACAGCCATGAGGATTCAA  
 TGAAATCAATGTGTTGACAGTTGCATTAGTCAACCAAGACCGAGAGAACAATATTGAGAAAAGAAGCCAA  
 GGCTTAAATCAGAGAAAGAAGCTCTGCTAATAGGTATCATATCAACGTTTCTTACGTCCATCCTTTTG  
 GAGCCAACATAGAATATCTTTGGTCATACATGCAGCAGCTGGACTCCAAGATATCTGCAAAATGAAATAGA  
 AATGCTTTTGATGAGGCTGCCACGCATGTTCAAACAGGAATTACGGGTGTGGGAGCCACGCTGAAAAAA  
 AGATGGAAGCTGTGTGCTTTGAAGGAATTAAGTACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG226055 representing NM\_001127615  
 Red=Cloning site Green=Tags(s)

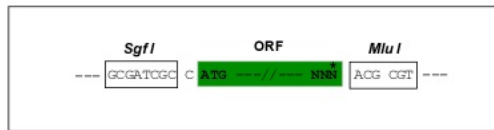
MVDAGGVENITQLPQELPQMMAAADGLGSIADTTQLNMSVTDPTAWATAMNNLGMVPVGLPGQQLVSD  
 SICVPGFDP SLNMMTGITPINMIPGLGLVPPPPTEVAVVKEIIHCKSCTLPQNPPLPPSTRERPPG  
 CKTVFVGLPENATEEIIQEVFEQCGDITAIRKSKNFCHIRFAEEFMVDKAIYLSGYRMRLGSSTDKKD  
 SGRLHVDFAQARDDFYEWCKQMRMRAREERHRRKLEEDRLRPPSPPAIMHYSEHEAALLAEKLKDDSKFS  
 EAITVLLSWIERGEVNRNRSANQFYSMVQSANSHVRRMLMNEKATHEQEMEEAKENFKNALTGILTQFEQIV  
 AVFNASTRQKAWDHF SKAQKRNIDIWRKHSEELRNAQSEQLMGIRREEEMEMSDDENDCDSPTKMRVDES  
 ALAAQAYALKEENDSLRWQLDAYRNEVELLKQEKEQLFRTEENLTKDQQLQFLQQTMMQGMQQQLTIQEE  
 LNNKKSELEQAKEEQSHTQALLKVLQEQLKGTKELVETNGHSHEDSNEINVLTVLVNQDRENNIEKRSQ  
 GLKSEKEALLIGIISTFLHVHPFGANIEYLSYMQQLDSKISANEIEMLLMRLPRMFKEFTGVGATLEK  
 RWKLCAFEIGIKTT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGCGCGCGGAATTCGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGCCGCGCAGATCT  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - -  
 T R T R P L E M E S D - - -  
 PmeI FseI  
 - - - GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT  
 - - - E E R V Stop

ACCN: NM\_001127615

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.

RefSeq: [NM\\_001127615.2](#)

RefSeq Size: 2706 bp

RefSeq ORF: 1932 bp

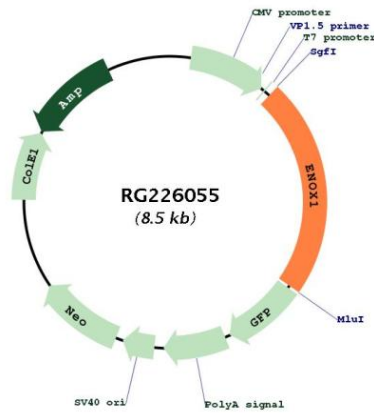
Locus ID: 55068

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 RG226055