

## Product datasheet for **TP323832M**

### **DUOX1 (NM\_175940) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Homo sapiens dual oxidase 1 (DUOX1), transcript variant 2, 100 µg

**Species:** Human

**Expression Host:** HEK293T



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**Expression cDNA** >RC223832 representing NM\_175940  
**Clone or AA** **Red**=Cloning site **Green**=Tags(s)  
**Sequence:**

MGFCLALAWTLLVGAWTPLGAQNPISWEVQRFDGWYNNLMEHRWGSKGSRLQRLVPASYADGVYQPLGEP  
 HLPNPRDLSNTISRGPAGLASLRNRTVLGVFFGYHVLSDLVSVETPGCPAEFLNIRIPPGDPMFDPDQRG  
 DVVLPFQRSRWDPETGRSPSNRPDPANQVTGWLDGSAIYGSSHSWSDALRSFSRGLASGPDPAFPRDSQ  
 NPLLMWAAPDPATGQNGPRGLYAFGAERGNREPFLQALGLLWFRYHNLWAQRLARQHPDWEDEELFQHAR  
 KRVIATYQNIAVYEWLPSFLQKTLPEYTYRPFDPISSEFVAASEQFLSTMVPPGVYMRNASCHFQGV  
 INRNSSVSRALRVCNSYWSREHPSLQSAEDVDALLLGMASQIAEREDHVLVEDVRDFWPGPLKFSRTDHL  
 ASCLQRGRDLGLPSYTKARAALGLSPITRWQDINPALSRSNDTVLEATAALYNQDLSWLELLPGGLLESH  
 RDPGPLFSTIVLEQFVRLRDGDYWFENTRNLGFSKKEIEEIRNTTLQDVLVAVINIDPSALQPNVFWWH  
 KGDPCPQPRQLSTEGLPARAPSVRDYFEGSGFGFVGTIGTLCCFPLVSLLSAWIVARLRMRNFKRLQGG  
 DRQSIVSEKLVGGMEALEWQGHKEPCRPVLVYLQPGQIRWDGRLTVLRTIQLQPPQKVNFLSSNRGR  
 TLLLKIPKEYDLVLLFNLEERQALVENLRGALKESGLSIQEWELREQELMRAAVTREQRHLLLETFRH  
 LFSQVLDINQADAGTLPDSSQKVREALTCELSRAEFAESLGLKPQDMFVESMFSLADKDGNGYLSFREF  
 LDILVFMKGSPEEKSRMLFRMYDFDGNGLISKDEFIRMLRSFIEISNNCLSKAQLAEVVESEMFRESGFQ  
 DKEELTWEDFHMLRDHNSLRFTQLCVKGEVPEVIKDLRASYISQDMICSPRVSARCSRSDIETE  
 LTPQRLQCPMDTDPPEIRRRFGKVTFSQPLLFEAHREKFRSCLHQTVQQFKRFIENYRRHIGCVAV  
 FYAAGGLFLERAYYFAAAHTGITDTRVGIILSRGTAASISFMFSYILLMCRNLITFLRETFLNRY  
 VPFDAAVDFHRLIASTAVLTVLHVSVGHVNVYLSISPLSVLSCLFPGLFHDDGSEFPQKYYWVFFQTV  
 PGLTGVLLLLILAIMYVFASHHFRRRSFRGFWLTHHLYILLYVLLIIHGSFALIQLPRFHIFFLVPAIIY  
 GGDKLVLSLRKKVEISVKAELLPSGVTHLRFQRPQGFYKSGQWVRIACLALGTTEYHPFTLTSAPHED  
 TLSLHIRAAGPWTRLREIYSAPTGDRCARYPKLYLDGPFGEHGEWHKFEVSVLVGGGIGVTPFASILK  
 DLVFKSSVSCQVFCCKIYFIWVTRTQRQFEWLADIIEVEENDHQDLVSVHIYITQLAEKFDLRTTMLYI  
 CERHFQKVLNRSFLTGLRSITHFGRPPFEPFFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKACQLINRQD  
 RTHFSHHYENF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

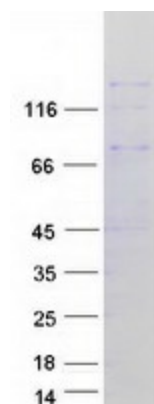
**Tag:** C-Myc/DDK  
**Predicted MW:** 177.1 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP\\_787954](#)  
Locus ID: 53905  
UniProt ID: [Q9NRD9](#)  
RefSeq Size: 5501  
Cytogenetics: 15q21.1  
RefSeq ORF: 4653  
Synonyms: LNOX1; NOXEF1; THOX1

**Summary:** The protein encoded by this gene is a glycoprotein and a member of the NADPH oxidase family. The synthesis of thyroid hormone is catalyzed by a protein complex located at the apical membrane of thyroid follicular cells. This complex contains an iodide transporter, thyroperoxidase, and a peroxide generating system that includes proteins encoded by this gene and the similar DUOX2 gene. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain. This protein generates hydrogen peroxide and thereby plays a role in the activity of thyroid peroxidase, lactoperoxidase, and in lactoperoxidase-mediated antimicrobial defense at mucosal surfaces. Two alternatively spliced transcript variants encoding the same protein have been described for this gene. [provided by RefSeq, Jul 2012]

**Protein Families:** Druggable Genome, Transmembrane

### Product images:



Coomassie blue staining of purified DUOX1 protein (Cat# [TP323832]). The protein was produced from HEK293T cells transfected with DUOX1 cDNA clone (Cat# [RC223832]) using MegaTran 2.0 (Cat# [TT210002]).