

## Product datasheet for **RC223832L3V**

### DUOX1 (NM\_175940) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	DUOX1 (NM_175940) Human Tagged ORF Clone Lentiviral Particle
Symbol:	DUOX1
Synonyms:	LNOX1; NOXF1; THOX1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_175940
ORF Size:	4653 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC223832).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_175940.1</a>
RefSeq Size:	5501 bp
RefSeq ORF:	4656 bp
Locus ID:	53905
UniProt ID:	<a href="#">Q9NRD9</a>
Cytogenetics:	15q21.1
Protein Families:	Druggable Genome, Transmembrane
MW:	177.1 kDa



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**Gene 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]