

## Product datasheet for RC219006

### DUOX2 (NM\_014080) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DUOX2 (NM\_014080) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** DUOX2  
**Synonyms:** LNOX2; NOXF2; P138-TOX; TDH6; THOX2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC219006 representing NM\_014080  
 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC219006 representing NM\_014080  
 Red=Cloning site Green=Tags(s)

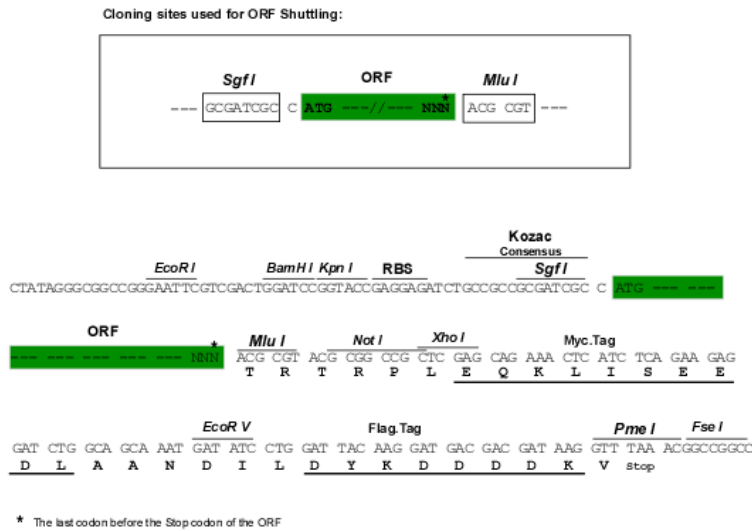
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**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8008\\_h04.zip](https://cdn.origene.com/chromatograms/mk8008_h04.zip)

**Restriction Sites:** Sgfi-MluI

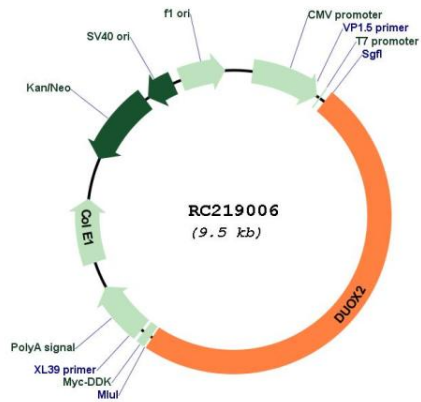
**Cloning Scheme:**



**ACCN:** NM\_014080

<b>ORF Size:</b>	4644 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_014080.4</a> , <a href="#">NP_054799.4</a>
<b>RefSeq Size:</b>	6428 bp
<b>RefSeq ORF:</b>	4647 bp
<b>Locus ID:</b>	50506
<b>UniProt ID:</b>	<a href="#">Q9NRD8</a>
<b>Cytogenetics:</b>	15q21.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	175.4 kDa
<b>Gene Summary:</b>	<p>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 this encoded protein and DUOX1. This protein is known as dual oxidase because it has both a peroxidase homology domain and a gp91phox domain. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC219006