

## Product datasheet for **MG204631**

### Duoxa2 (BC031111) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Duoxa2 (BC031111) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Duoxa2
Synonyms:	9030623N16Rik; Nip2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204631 representing BC031111 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTGCGTGGGACGGGGTGCTACCCTTTTACCCAGCCAGGCATGCCGCCAGCTTCAGCGTACCGC  
TGCTCATTGTTATCCTGGTGTCTTGTCTTTGGCTGCTAGCTTCTGTTTCATCTTGCCTGGAATCCGTGG  
GCACTCGCGCTGGTTCTGGTTGGTAAGAGTCTTCTTAGCCTGTTTCATAGGTGCCGAAATGTGGCTGTG  
CACTTCAGTGGAGACTGGTTCGTGGGGAGAGTGTGGACCAACACATCCTACAAAGCCTTCAGTCCATCCC  
GTGTTCAAGTCCATGTCGGTCTGCACGTGGGGCTGGCGGGCGTTAACATTACACTCCGAGGAACACCGAG  
GCAGCAGCTGAACGAGACCAATTGACTACAATGAGCGTTTCACTTGGCGTCTGAACGAAGACTACACCAAG  
GAGTATGTCCATGCCTTGAGAAAGGGACTGCCGGACCCAGTGCTATACCTGGCAGAGAAGTTCACACCGA  
GCAGTCCCTGCGGGCTGTACCACCAATATCACCTGGCCGGTCACTATGCCGCCGCAACACTGTGGGTGGC  
ATTCTGCTTCTGGATCATCGCCAATGCGTGTCTCCATGCCCGCCCACTCTACGGAGGCTGGCTTTG  
CTCACCACCGGTGCCTTCACGCTCTTCGGTGTCTTCGCTTCGCCTCGATTTCCAGCGTGGCCGTCTGCC  
ACTTCCGCTGGGCTCCGCCGCTCCTCACGCCTTACTACGGCGCTCCTTTGGCTCACGCTGGCCACCGG  
CATCCTGAGCCTCCTCCTCGGAGGGCGGTGGTGATTCTCCACTATACTCGGCCAGCGCCCTTCGCTCC  
TTTCTGGATCTAAGTGTCAAAGACTGTAGCAACCAGGCTAAAGGAAACTCACCTCTACCCTCAACAACC  
CGCAACACGAACAGTTGAAGAGTCCAGACTTAAATATTACCACTCTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204631 representing BC031111  
 Red=Cloning site Green=Tags(s)

MTAWDGVLPFYQPQRHAASFVPLLIIVILVFLSLAASFLFILPGIRGHSRWFVLRVLLSLFIGAEIVAV  
 HFSGDWVGRVWNTNTSYKAFSPSRVQVHVGLHVGLAGVNITLRGTTPRQLNETIDYNERFTWRLNEDYTK  
 EYVHALEKGLPDPVLYLAEKFTSPSPCGLYHQYHLAGHYAAATLWVAFCFWIIANALLSMPAPLYGGLAL  
 LTTGAFTLFGVFAFASISSVPLCHFRLGSAVLPYYGASFWLTATGILSLLLGGAVVILHYTRPSALRS  
 FLDLSVKDCSNQAKGNSPLTLNPNQHEQLKSPDLNITLL

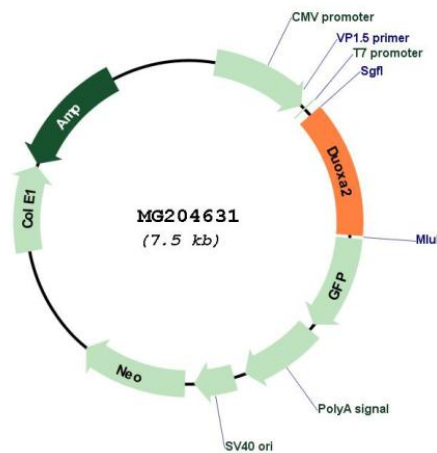
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC031111

**ORF Size:** 962 bp

<b>OTI Disclaimer:</b>	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>
<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="#">BC031111</a> , <a href="#">AAH31111</a>
<b>RefSeq Size:</b>	1354 bp
<b>RefSeq ORF:</b>	962 bp
<b>Locus ID:</b>	66811
<b>Cytogenetics:</b>	2 E5
<b>Gene Summary:</b>	Required for the maturation and the transport from the endoplasmic reticulum to the plasma membrane of functional DUOX2. May play a role in thyroid hormone synthesis (By similarity). [UniProtKB/Swiss-Prot Function]