

Product datasheet for **RR201755**

Duox2 (NM_024141) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Duox2 (NM_024141) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Duox2
Synonyms: Thox2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201755 representing NM_024141
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCCAACAAGTCTCAAGACATTGGTGTCTCTGGGCGCTCTGTTGACTGGACCCCTGGGCCAGCAG
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CCACCAGCGCGGTGCAGCTGGCTCGCAGCTGCGTGCCTAGTACCTGCTAATTACGCTGACGGTGTAT
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GGCTGCCCTCGGCGCACACCGCACAGTCTGGGCTCTCTTTGGCTACCACGTGCTCTCAGACCTGGT
GAGTGTGGAAACACCAGGCTGCCCGCAGAGTTCTCAACATTTACATCCACGTGGGGACCCAGTGT
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 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RR201755 representing NM_024141
 Red=Cloning site Green=Tags(s)

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MLPTSLKTLVLLGALLTGPLGPAGGQDAPSLPREVQRYDGFNFKYHQGAAGSQLRRLVPANYADGVY
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DPDKRGNVVLPFQSRWRDRSTGQSPSNPRDLTNQVTGWLDSAIYGSSHSWSDTLRSFSGGQLASGPDPA
FPRNSQNSLLMWMAPDPATGQGGPQGLYAFGAQRGNREPFLQALGLLWFRYHNLCAKRLAQEHPHWGDEE
LFQHARKRVIATYQNIALYQWLPFLQKTPPEYSGYRPFMDPSISPEFVAASEQFLSTMVPPGVYMRNSS
CHFREFPKEGSSSSPALRVCNNYWIWIRENPSLKTAKQDQDQDQLLLGMAEQISELEDRIVEDLRDYWPGPDRY
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IIREVEENGSRDLVSVHIYITQLAEKFDLRTTMLYICERHFQKVLNRSFLTGLRSVTHFGRPPFELFLDS
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

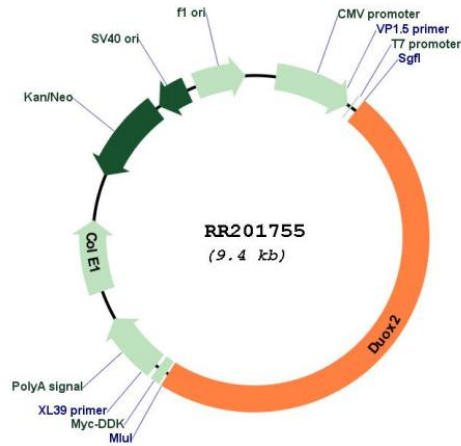
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_024141

ORF Size: 4551 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_024141.1](#), [NP_077055.1](#)

RefSeq Size: 5689 bp

RefSeq ORF: 4554 bp

Locus ID: 79107

UniProt ID: [Q9ES45](#)

Cytogenetics: 3q35

MW: 171.6 kDa

Gene Summary: a thyroid NADPH oxidase flavoprotein [RGD, Feb 2006]