

Product datasheet for MR205128

Duoxa1 (NM_145395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Duoxa1 (NM_145395) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Duoxa1
Synonyms:	BC019755; Nip; Nip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205128 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCTCTTGGACACACTGCCCTTCTACACTGGCACCAAGCCAACCTTTCCAATGGACACTACTC
TGGCTGTCATTATCACCATCTTCTGACTGCACCTTCATCATTATCCTGCCTGGCATCCGTGG
GAAGACGAGGCTGTTCTGGCTGCTTCGGTGGTGACCAGCTTATTCATCGGGGCTGTGATCCTGGCTGTG
AACTTCAGTTCTGAGTGGTCTGTGGCCATGTCAACGCCAACACAACGTACAAAGCCTTCAGTCCCAAGT
GGGTCACTGTGGACGTGGACTGCAGATCGGGCTCGGCGCGTCAACATCACCTTCACAGGCACCCAGT
GCAGCAGCTGAATGAAACCATCAACTACAATGAGGCATTCGCATGGCGCCTGGGCAGGAGCTATGCAGAG
GAGTATGCAAAGGCCCTGGAGAAGGGCCTTCCAGACCCAGTGTATACCTGGCTGAGAAGTTCACCCCTC
GAAGCCCATGTGGCCTGTACAACCAAGTACCGCCTGGCAGGACACTATGCCTCTGCCATGCTGTGGGTGGC
ATTCCTCTGCTGGCTGCTGGCCAATGTGATGTTGTCGATGCCAGTGTGGTTTATGGTGGCCACATGCTG
CTGGCCACTGGTCTTCCAGCTGTTGGCCCTGTTCTTCTTCCATGACCACGTCACATCATCGCCCT
GTCCCTGCGCTTGGGCACTGCTGTGCTGCACACTCACCATGGGCCCGCTTCTGGATCACGTTAGCCAC
AGGACTGCTGTGATTCTGCTTGGCCTGGTTCATGGCAGTGGCCACAGGATGCAGCCTCACAGACTGAAG
GCTTTCTTCAACCTGAGTTCAGAGGACCCAGTGTGGAGTGGGCTCTGAAGAAGGAGGACTCTTGAGCC
CCCACTACCGGTCCATAGCTGAGAGTCTGAGACCCAGGACACTCCCATGTCAGTGGCTTCTCTGAGAC
ATGTTTTAAGGAGGAACCCCCAAGAGTCCGACTGTTCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205128 protein sequence
 Red=Cloning site Green=Tags(s)

MAALGHTLPFYTGKPTFPMDTTLAVIITIFLTALVTFIIILPGIRGKTRLFWLLRVVTSLSFIGAVILAV
 NFSSEWSVGHVNANTTYKAFSPKWVSVDVGLQIGLGGVNIIFTGTPVQQLNETINYNEAFWRLGRSYAE
 EYAKALEKGLPDPVLYLAEKFTPRSPCGLYNQYRLAGHYASAMLWVAFLCWLLANVMLSMPVLVYGGHML
 LATGLFQLLALFFFSMTTSLISPCPLRLGTAVLHTHHGPAFWITLATGLLCILLGLVMAVAHRMQPHRLK
 AFFNLSSSEDPVLEWGSEEGLLSPHYRSIAESPETQDTPMSVASSETCFKKEEHPKESDCSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145395

ORF Size: 1026 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_145395.1](#)

RefSeq Size: 1513 bp

RefSeq ORF: 1026 bp

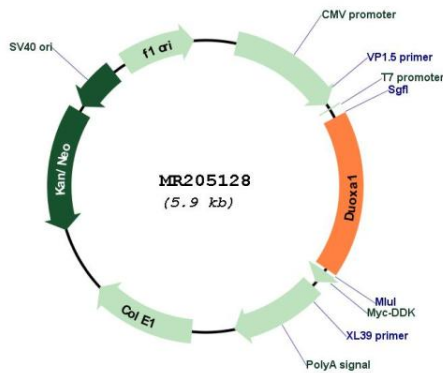
Locus ID: 213696

Cytogenetics: 2 E5

MW: 37.6 kDa

Gene Summary: May be required for the maturation and the transport from the endoplasmic reticulum to the plasma membrane of functional DUOX1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205128