

Product datasheet for **RR203488**

Orai3 (NM_001014024) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Orai3 (NM_001014024) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Orai3
Synonyms: RGD1306538
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203488 representing NM_001014024
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGAAGGGCGGCGAGGGGACACGGGCGAACAGGCCCCCTGAACCCGGAGGTGGACAGCCCCGCGGGCT
CAGCCACGTACCGGGAGTTCGTGCACCGCGGCTACCTCGACCTTATGGGGCCAGTCAGCACTCTCTGCG
GGCGCTCAGCTGGCGCCGCTCTACCTCAGCCGGGCTAAGCTCAAAGCCTCCAGTCGCACCTCTGTCTCTG
CTGTCCGGCTTCGCCATGGTGGCAATGGTGGAGGTACAGCTGGAGAGCGATCATGAATACCCACCAAGGCC
TGCTAGTGGCATTAGTGCCTGCACCACTGTGTTAGTAGCTGTGCACCTGTTTGCACCTCATGGTCTCCAC
ATGTCTGTGCCCATATTGAAGCCGTGAGCAACATCCACAATCTCAACTCTGTCCACCAAGTCACCAACAC
CAACGACTCCACCGATATGTGGAGCTGGCCTGGGGCTTTTCTACTGCTTTGGGCACCTTTCTCTTCTGG
CTGAAGTTGTTTTGGTGGGCTGGGTCAAGTTTGTGCCATTGGGGCACCCATGGACAAACCAGCTCCTGT
GGTACCTATGTCCAGGTGCCACCGTCACTGTCTCCCTAGTTTAGCTTCTAACCTCACACCATCATCT
GCTTCTGTAGCCACAACACAGCAGCCTCCAAAGCCTGTCCACCTCGGCAAGTGTGTGGTAGTGCATG
GACCTGGCTGGCAGGAGCTATGGCCTCCACGGCAATCATGGTACCTGTGGGACTAGTGTATATGGCCTT
TGCCCTACATTTCTACCGATCCTTGGTGGCCACAAGACAGACCCGACCAAGCAGGAAGTGGAGGAACCT
AGTCGCCTGCAGGGGAGCTGCAGGCTGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203488 representing NM_001014024
 Red=Cloning site Green=Tags(s)

MKGGEGDTGEQAPLNPEVDSFAGSATYREFVHRGYLDLMGASQHSRLRALSWRRLYL SRAKLKASSRTSAL
 LSGFAMVAMVEVQLES DHEYPPGLLVAF SACTTVLVAVHLFALMVSTCLLPHIEAVSNIHNLNSVHQSPH
 QRLHRYVELAWGFSTALGTFLFLAEVVLVGWVKFVPIGAPMDKPAPVVPMSQVPPVTVSLASNLTPSS
 ASVATTQPPKACPPRQVCGSAHGPWQAAMASTAIMVPVGLVFMAFALHFYRSLVAHKTD RHKQLEEL
 SRLQGELQAV

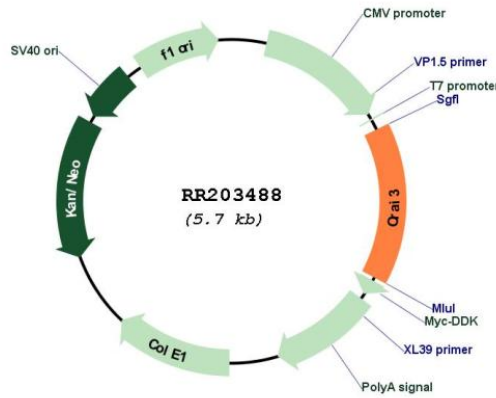
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014024

ORF Size: 870 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:	<ol style="list-style-type: none">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_001014024.1 , NP_001014046.1
RefSeq Size:	1851 bp
RefSeq ORF:	873 bp
Locus ID:	309000
UniProt ID:	Q6AXR8
Cytogenetics:	1q37
MW:	31.3 kDa
Gene Summary:	Key regulator or component of store-operated Ca(2+) channel and transcription factor NFAT nuclear import.[UniProtKB/Swiss-Prot Function]