

Product datasheet for **MR203194**

Orai2 (NM_178751) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Orai2 (NM_178751) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Orai2
Synonyms: A730041O15Rik; Tmem142b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203194 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCAGAGCTCAATGTGCCCATGGACCCCTCTGCCCTGCCTGCCCTGAACCCGGCCACAAGGGCA
TGGATTACCGAGACTGGGTCCGGCGCAGCTACCTGGAACCTGCACGTCTAACCACCATTTCGGTGCAGGC
ACTGTCTGGAGGAAGCTCTACCTGAGCAGGGCCAAGCTGAAAGCCTCCAGCCGGACCTCAGCCCTCCTG
TCTGGCTTCGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACCAAGTACCAGTACCCTCAGCCCTGC
TCATTGCCTTCAGCGCTGCACCACGGTGTGGTAGCCGTGCATCTGTTTGTCTGCTCATCAGCACTTG
CATCCTGCCAACGTGGAAGCGGTGAGCAACATCCACAACCTCAACTCCATCAGCGAGTCGCCCGCAGGAG
CGCATGCACCCGTACATCGAGCTGGCCTGGGGTCTCCACCGTTCTGGGCATCCTGCTTTCTGGCTG
AGGTGGTCTGCTCTGCTGGATCAAGTTCCTCCAGTGGATGCCAAGGATCAGCCAGGCTCCCACAGCCA
CACGGGTGGCAGGCCGCTCTGGTGTCCACCATCATCATGGTACCTGTGGGTCTCATCTTCGTGGTCTTC
ACCATCCACTTCTACCGTTCCTGGTGCAGCACAAGACGGAGCGCCACAACCGTGAGATCGAAGAGCTGC
ACAAGCTCAAGGTGCAGCTGGATGGGCACGAGCGGAGCCTGCAGGTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203194 protein sequence
 Red=Cloning site Green=Tags(s)

MSAELNVPMDPSAPACPEPGHGMDYRDWVRRSYLELVTSNHHSVQALSWRKL YLSRAK LKASSRTSALL
 SGFAMVAMVEVQLET KYQPQLLI AFSACTTVLVAVHLFALLISTCILPNVEAVSNIHNLNSISEPHE
 RMHPYIELAWGFSTVLGILLFLAEVLLCWIKFLPVD AKDQPGSHSHTGWQAALVSTIIMVPVGLIFVVF
 TIHFYRSLVRHKTERHNREIEELHKLKVQLDGHERSLQVV

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_178751

ORF Size: 753 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_178751.3](#), [NP_848866.2](#)

RefSeq Size: 3851 bp

RefSeq ORF: 753 bp

Locus ID: 269717

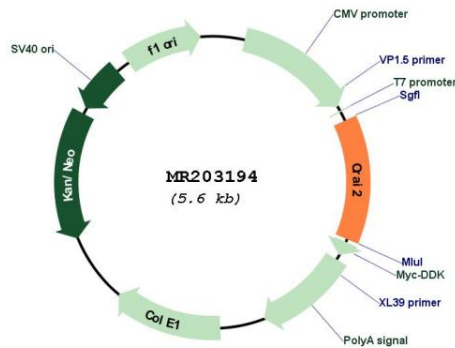
UniProt ID: [Q8BH10](#)

Cytogenetics: 5 G2

MW: 28.2 kDa

Gene Summary: Ca(2+) release-activated Ca(2+)-like (CRAC-like) channel subunit which mediates Ca(2+) influx and increase in Ca(2+)-selective current by synergy with the Ca(2+) sensor, STIM1. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203194