

## Product datasheet for RC231981

### ORAI2 (NM\_001271819) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ORAI2 (NM\_001271819) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ORAI2  
**Synonyms:** C7orf19; CBCIP2; MEM142B; TMEM142B  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC231981 representing NM\_001271819  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGCGGCCGCTGCTGATTGCCTTCAGCGCCTGCA  
CCACGGTGTGGTGGCCGTGCACCTGTTCCGCCCTCCTCATCAGCACCTGCATCCTGCCCAATGTGGAGGC  
CGTGAGCAACATCCACAACCTGAACTCCATCAGCGAGTCCCCGCATGAGCGCATGCACCCCTACATCGAG  
CTGGCCTGGGGCTTCTCCACCGTCTGGCATCCTACTCTTCTGGCCGAGGTGGTGTCTGCTCTGCTGGA  
TCAAGTTCCTCCCGTGGATGCCCGGCGCCAGCCTGGCCCCACCTGGCCCTGGGAGTCACACGGGCTG  
GCAGGCCGCCCTGGTGTCCACCATCATATGGTGGCCGTGGGCCTCATCTTCGTGGTCTTCACCATCCAC  
TTCTACCGCTCCCTGGTGCGCCAAAAACGGAGCGCCACAACCGGAGATCGAGGAGCTCCACAAGCTCA  
AGGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC231981 representing NM\_001271819  
Red=Cloning site Green=Tags(s)

MVEVQLETQYQYPRLLIAFSACTTVLVAVHLFALLISTCILPNVEAVSNIHNLNSISESPHERMHPYIE  
LAWGFSTVLGILLFLAEVLLCWIKFLPVDARRQPGPPPGSHTGWQAALVSTIIMVPVGLIFVVFTH  
FYRSLVRHKTERHNREIEELHKLVQLDGHSLQVL

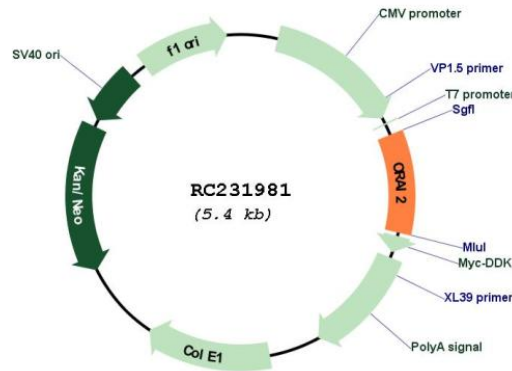
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001271819

**ORF Size:** 531 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.

<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>	<u><a href="#">NM_001271819.2</a></u>
<b>RefSeq Size:</b>	10550 bp
<b>RefSeq ORF:</b>	534 bp
<b>Locus ID:</b>	80228
<b>Cytogenetics:</b>	7q22.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	20.5 kDa
<b>Gene Summary:</b>	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]