

## Product datasheet for **SC316298**

### **ORAI1 (NM\_032790) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ORAI1 (NM\_032790) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** ORAI1  
**Synonyms:** CRACM1; IMD9; ORAT1; TAM2; TMEM142A  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_032790 edited  
 CCGGCGGAGGTGCCTCGCGGCGCCCGGGCCGCGCCCTCGGGCGGTGCTCCATGCA  
 TCCGGAGCCCGCCCGCCCGAGCCGTAGCAGTCCCGAGCTTCCCCAAGCGGGGCGAG  
 CACCACCAGCGGAGCCCGCGGAGCCGCGCGAGCGGGGAGCGGGAGCCCGGGGGC  
 CCGGCCACCGCCCGTCCGCCGTACCTACCCGACTGGATCGGCCAGAGTTACTCCGA  
 GGTGATGAGCCTCAACGAGCACTCCATGCAGGCGCTGTCTGGCGCAAGCTCTACTTGAG  
 CCGCGCAAGCTTAAAGCCTCCAGCCGACCTCGGCTCTGCTCTCCGGCTTCGCCATGGT  
 GGCAATGGTGGAGGTGCAGCTGGACGCTGACCACGACTACCCACCGGGGCTGCTCATCGC  
 CTTTCAGTGCCTGCACCACAGTGTGGTGGCTGTGCACCTGTTTGCCTCATGATCAGCAC  
 CTGCATCTGCCAACATCGAGGCGGTGAGCAACGTGCACAATCTCAACTCGGTCAAGGA  
 GTCCCCCATGAGCGCATGCACCGCCACATCGAGCTGGCCTGGGCCTTCCACCCTCAT  
 TGGCACGCTGCTTCTAGCTGAGGTGGTGTGCTCTGCTGGGTCAAGTTCTTGCCCT  
 CAAGAAGCAGCCAGGCCAGCCAGGCCACAGCAAGCCCCCGCCAGTGGCGCAGCAGC  
 CAACGTGACGACCAGCGCATCACCCCGGGCCAGGCAGCTGCCATCGCCTCGACCACCAT  
 CATGGTGCCTTCGGCCTGATCTTTATCGTCTTCGCCGTCCACTTCTACCCTCACTGGT  
 TAGCCATAAGACCGACGACAGTTCAGGAGCTCAACGAGCTGGCGGAGTTTGCCCGCTT  
 ACAGGACCAGCTGGACCACAGAGGGGACCACCCCTGACGCCCGGAGCCACTATGCCTA  
 GGCCCATGTGGTCTGGGCCCTCCAGTGTCTTGGCCTTACGCCCTTCCCCTTGACCTTGT  
 CCTGCCACGCTCAGGACAGCTGCGCAGGGGGTGGGCTTACAGCAAGGGGCAGAGCA  
 TGGAGGGAAGAGGATTTTTTATAAGAGAAATTTCTGCACTTTGAAAATGTCTCTAAGAG  
 AATAAGCATTTCCTGTTCTTCCAGCTCCAGGTCCACCTCTGTTGGGAGCGGTGGGGGG  
 CCAAAGTGGGGCCACACTCGCTGTGTCCCTCTCCTCCCTGTGCCAGTGCCACCTGG  
 GTGCCCTCCTGTCTGTCCGTCTCAACCTCCCTCCCGTCCAGCATTGAGTGTGTACAT  
 GTGTGTGTGACACATAAATACTCATAAGGACACCTCAAAAAAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_032790 unedited</p> <pre>TGCGACTTGTATACGACTCCTATAGGGCGGCCGCTCATCAGTATTCTGGTACCGGTC CGGAATTCCTGGGATATCGTCCGACCCACGCGTCCGCCGGCGGAGGTGCCTCGCGGCGCC GGGCGGCGCCGCGCTCGGCGCGTGTCCATGCATCCGAGCCCGCCCCGCCCCGAGC CGTAGCAGTCCCAGCTTCCCCAAGCGGCGCAGCACCACCAGCGGCAGCCGCCGGAGC CGCCGCGCAGCGGGGACGGGGAGCCCCGGGGGCCCGCCACCGCCCGCTCCGCCGTC ACCTACCCGACTGGATCGGCCAGAGTTACTCCGAGGTGATGAGCCTCAACGAGCACTCC ATGCAGGCGTGTCTGGCGCAAGCTCTACTTGAGCCGCGCCAAGCTTAAAGCCTCCAGC CGGACCTCGGCTCTGCTCTCCGGCTTCGCCATGGTGGCAATGGTGGAGGTGCAGCTGGAC GCTGACCACGACTACCCACCGGGGCTGCTCATCGCCTTCAAGTGCCTGCACCACAGTGTG GTGGGTGTGCACCTGTTTGCCTCATGATCAGCACCTGCATCCTGCCAACATCGAGGCG GTGAGCAACGTGCACAATCTCAACTCGGTCAAGGAGTCCCCCATGAGCGCATGCACCGC CACATCGAGCTGGCCTGGCCTTCTCCACCGTCATTGGCAGCTGCTTCTCTAGCTGAG GTGGTGTCTGCTGCTGGGTCAAGTTCTTGCCCTCAAGAAGCAGCCAGGCCAGCCAAGG CCCACCAGCAAGCCCCCGCCAGTGGCGCAGCAGCCAACGTGAGCACCAGCGGCATCACC CCGGGCCAGGCAGCTGCCATCGCCTCGACCACCATCATGGTGCCTTCGGCCTGATTTT TATCGTCTTCGC</pre>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_032790
<b>Insert Size:</b>	1400 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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>

RefSeq:	<u>NM_032790.2, NP_116179.2</u>
RefSeq Size:	1497 bp
RefSeq ORF:	906 bp
Locus ID:	84876
UniProt ID:	<u>Q96D31</u>
Cytogenetics:	12q24.31
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a membrane calcium channel subunit that is activated by the calcium sensor STIM1 when calcium stores are depleted. This type of channel is the primary way for calcium influx into T-cells. Defects in this gene are a cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 1 (IDTICED1). [provided by RefSeq, Sep 2011]