

## Product datasheet for **SC111493**

### **ORAI3 (NM\_152288) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ORAI3 (NM_152288) Human Untagged Clone
Tag:	Tag Free
Symbol:	ORAI3
Synonyms:	TMEM142C
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111493 sequence for NM_152288 edited (data generated by NextGen Sequencing)

```
ATGAAGGGCGGGGAGGGGACGCGGGGAGCAGGCCCCGCTGAACCTGAGGGCGAGAGC
CCTGCAGGCTCGGCCACGTACCGGGAGTTCGTGCACCGCGCTACCTGGACCTCATGGGG
GCCAGTCAGCACTCGCTGCGGGGCTCAGCTGGCGCCGCCTCTACCTCAGCCGGGCAAG
CTCAAAGCTTCCAGCCGACGTCTGCCTTGCTCTCGGGCTTCGCCATGGTGGCCATGGT
GAGGTGCAGCTGGAGAGTGACCACGAGTACCCACCAGGCCTGCTGGTGGCCTTCAGTGCC
TGCACCACCGTGTGGTGGCTGTGCACCTCTTGCACCTCATGGTCTCCACGTGTCTGCTG
CCCCACATTGAAGCTGTGAGCAACATCCACAACCTCAACTCTGTCCACCAGTCGCCACAC
CAGAGACTGCACCGCTACGTGGAGCTGGCCTGGGGCTTCTCCACTGCCCTGGGCACCTTT
CTCTTCCTTGCTGAAGTTGCTCCTGGTTGGTTGGGTCAAGTTTGTGCCATTGGGGCTCCC
TTGGACACACCGACCCCATGGTGCCACATCCCGGGTGCCCGGGACTCTGGCACCAGTG
GCTACCTCCCTTAGTCCAGCTTCCAATCTCCACGGTCTCTGCGTCTGCAGCACCGTCC
CAGGCTGAGCCAGCCTGCCACCCCGGCAAGCCTGTGGTGGTGGTGGGGCCCATGGGCCA
GGCTGGCAAGCAGCCATGGCCTCCACAGCCATCATGGTACCCGTGGGGCTCGTGTGGT
GCCTTTGCCCTGCATTTCTACCGCTCCTTGGTGGCACACAAGACAGACCGCTACAAGCAG
GAACTAGAGGAACTGAATCGCCTGCAGGGGAGCTGCAGGCTGTGTGA
```

Clone variation with respect to NM\_152288.2



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**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_152288 unedited  
 GCGCATATGAAACCGATTACGATAGGCGGAACGCCAATTCGCACGAGCCTGGGCGCTTG  
 CCGCCTGCATCCTGCTCGCCCTGTCTGGGAATGGGGCCGCCCCCGGGCTTGGGCCGGCC  
 GGCTGGGGCCCCGAGGCGCTTCCGCCCGTAGTGACCGCTGGTGCGCCCCCCCCCCA  
 GGATGAAGGGCGGCGAGGGGACTCTGGTGGCTGGCCCCGCTGAACCTGTTGGCGAGAG  
 CCCTGCAGGCTCGGCCACGTACCGGGAGTTCGTGCACCGCGCTACCTGACCTCATGGG  
 GGCCAGTCAGCACTCGCTGCGGGCGCTCAGCTGGCGCCGCTCTACCTCAGCCGGGCCAA  
 GCTCAAAGCTTCCAGCCGACGTCTGCCTTGTCTCGGGCTTCGCCATGGTGGCCATGGT  
 GGAGGTGCAGCTGGAGAGTGACCACGAGTACCCACCAGGCCTGCTGGTGGCCTTCACTGC  
 CTGCACCACCGTCTGGTGGCTGTGCACCTCTTTGCACTCATGGTCTCCACGTGTCTGCT  
 GCCCACATTGAAGCTGTGAGCAACATCCACAACCTCAACTCTGTCCACCAGTCGGCACA  
 CCAGAGACTGCACCGCTACCTGGAGCTGGCCTGGGGCTTCTCCACTGCCCTGGGCACCTT  
 TCTCTTCTGCTGAAATTGCCCTGGTTGGCTGGGTAAAGTTTGAAGCCATTGGGGCTTCC  
 TTGGGACCACCGACCCCTGGGGCCACATCCCGGGGGCCGGGCCCTGGGACAAGGG  
 GGCTCCATCCCTTGGTCCAGCTTCAATCCGCCAAGGGCCCTCTGTGTTGTATCACGTC  
 CCCAGGCTGAGCCAGGCCGGCCACACCGCAAGCCTGTGGTTGTGGGGGGCCCATGG  
 GCCAGGCTTGATAAAACCTTGACCTAAAAACCTCACAGGAAACCATGGGAGTTCGTGTA  
 GGGCAC

**3' Read Nucleotide Sequence:** >OriGene 3' read for NM\_152288 unedited  
 GGACCTCTACGGATTCTACCCTTTAGGTGCTCCAAATCACTGTGGAAGACTTTGTAT  
 TTCAAGGGCTACAGACTGGACCTTCTCCCTTAAAACCTCCTTACCAACCCTTGCTAAGG  
 ACTCAGGCTGGGGCAGAGGCTGTCACTCTAAAGACCCAGCCCTGGACCAGGACGGG  
 GGAGAACAAGTTTGGTGCATAGCGTGGGGCTAGGGCAGTGGGTACGGCACCATCCCTTCT  
 GCAAGTGGCCACAGGTCACCACAGTGGGGGAAGGTGGGGAGCTTGAACCTCCAAAGATAG  
 GTTCATTGTAGGAAAAGCTAGACCAATGCCTTGGGTAGAAAACCCAAATCCCTCTACAA  
 CAACTAAAGCAAGAAATGTGGAACCCATCGAAATCTTCCCCAAAATGCCAACATAAAAT  
 AGATTCTACAGAAATAAAGAAAGGAATCCAGCACTTTGGGAGGCCGAGGCGGGAGGTTT  
 ACTTGAGCCCAGGAGTTTGAAGCAGCCTGGGAACAGCGAAACCCCGTCTCTACAAAAA  
 GGTGGGAGCATCTTTTGAAGCCGGAAGGTGAGGCTACCGTGTGACTGTGACTGTATCACT  
 ACACTCCAGCCTGGGAAACAGACTGTCTCAAAAAAAAAAAAAAAAAATTGAACGCGCAATTG  
 GGCTGCCTTCTGACCTTACATCCTGGATAGGAATGGAATGGGGCTTAAAGTCCCACT  
 GGATGTTCCCAACACCTCTCCTCGCCTCCCTCTTTACTGCATGTTCTTACATTGGG  
 CCCCCCAAAGTCAAATTAGCTTGCG

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_152288

**Insert Size:** 2400 bp

**OTI Disclaimer:** 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 [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_152288.1](#), [NP\\_689501.1](#)

**RefSeq Size:** 2239 bp

**RefSeq ORF:** 888 bp

**Locus ID:** 93129

**UniProt ID:** [Q9BRQ5](#)

**Cytogenetics:** 16p11.2

**Protein Families:** Transmembrane

**Gene Summary:** Key regulator or component of store-operated Ca(2+) channel and transcription factor NFAT nuclear import.[UniProtKB/Swiss-Prot Function]