

Product datasheet for **SC330974**

ORAI2 (NM_001271818) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	ORAI2
Synonyms:	C7orf19; CBCIP2; MEM142B; TMEM142B
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330974 representing NM_001271818. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAGTGCTGAGCTTAACGTGCCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCGCCATAAGGGC
ATGGATTACCGGACTGGGTCCGCCGAGCTACCTGGAAGTGGTCACTTAACCACTCGGTACAG
GCCCTGTCGTGGCGGAAGCTCTACCTGAGCAGGCGCAAGCTGAAGGCTCCAGCAGGACCTCCGCCCTC
CTCTCCGGCTTTGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGGGCCG
CTGCTGATTGCCTTCAGCGCCTGCACCACGGTGTGGTGGCCGTGCACCTGTTCCGCCCTCCTCATCAGC
ACCTGCATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACCTGAATCCATCAGCGAGTCCCCG
CATGAGCGCATGCACCCCTACATCGAGCTGGCTGGGGCTTCTCCACCGTGGTGGCATCCTACTCTTC
CTGGCCGAGGTGGTGTCTGCTGCTGGATCAAGTTCTCCCGTGGATGCCCGGCCAGCCTGGCCCC
CCACCTGGCCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTG
GGCCTCATCTTCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCAC
AACCGCGAGATCGAGGAGCTCCACAAGCTCAAGGTCCAGCTGGACGGGCATGAGCGCAGCTGCAGGTC
TTGTGA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001271818
Insert Size:	765 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 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001271818.1](#)

RefSeq Size: 10811 bp

RefSeq ORF: 765 bp

Locus ID: 80228

UniProt ID: [Q96SN7](#)

Cytogenetics: 7q22.1

Protein Families: Transmembrane

MW: 28.6 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]

Transcript Variant: This variant (3) represents the longest transcript. Variants 1, 2, and 3 all encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.