

Product datasheet for RC232297

ORAI2 (NM_001271818) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ORAI2 (NM_001271818) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ORAI2
Synonyms: C7orf19; CBCIP2; MEM142B; TMEM142B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC232297 representing NM_001271818
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTGCTGAGCTTAACGTGCCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCAGGCCATAAGGGCA
 TGGATTACCGGGACTGGGTCCGCCGAGCTACCTGGAAGTGGTCACTCTAACCACCACTCGGTACAGGC
 CCTGTCGTGGCGGAAGCTCTACCTGAGCAGGGCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTC
 TCCGGCTTGGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGCGCCGCTGC
 TGATTGCCTTCAGCGCCTGCACCAGGTGCTGGTGGCCGTGCACCTGTTCCGCCCTCCTCATCAGCACCTG
 CATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACCTGAACTCCATCAGCGAGTCCCGCATGAG
 CGCATGCACCCCTACATCGAGCTGGCCTGGGGTCTCCACCGTGCTTGGCATCCTACTTCTCTGGCCG
 AGGTGGTGTCTGCTGCTGGATCAAGTTCCTCCCGTGGATGCCCGGCCAGCCTGGCCCCCACCTGG
 CCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTGGGCCTCATC
 TTCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACAACCGCGAGA
 TCGAGGAGCTCCACAAGCTCAAGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232297 representing NM_001271818
Red=Cloning site Green=Tags(s)

MSAELNVPIDPSAPACPEPGHGMDYRDWVRRSYLELVTSNHHSVQALSWRKL YLSRAK LKASSRTSALL
 SGFAMVAMVEVQLETQYQYPRLLIAFSACTTVLVAVHLFALLISTCILPNVEAVSNIHNLNSISESPHE
 RMHPYIELAWGFSTVLGILLFLAEVLLCWIKFLPVDARRQPGPPPGSHTGWQAAALVSTIIMVPVGLI
 FVVFTIHFYRSLVRHKTERHNREIEELHKLKVQLDGHERSLQVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6106_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001271818

ORF Size: 762 bp

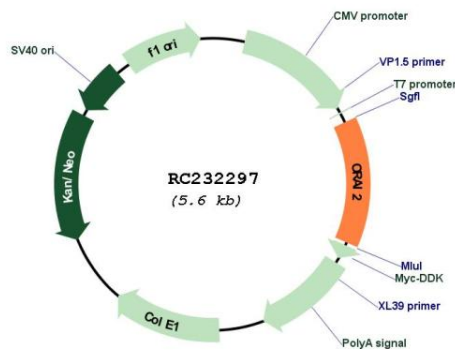
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

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:	<ol style="list-style-type: none"> 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:	<u>NM_001271818.1, NP_001258747.1</u>
RefSeq Size:	10811 bp
RefSeq ORF:	765 bp
Locus ID:	80228
UniProt ID:	<u>Q96SN7</u>
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]

Product images:



Circular map for RC232297