

Specifications:

Gene:	<i>hORAI1</i>
Accession:	NP_116179
Insert size:	919bp
Concentration:	10µg at 0.2µg/µL

hORAI1 cDNA Plasmid

ORAI1 ORAI calcium release-activated calcium modulator 1
[*Homo sapiens*]

Also known as: ORAT1; CRACM1; TMEM142A

Summary:

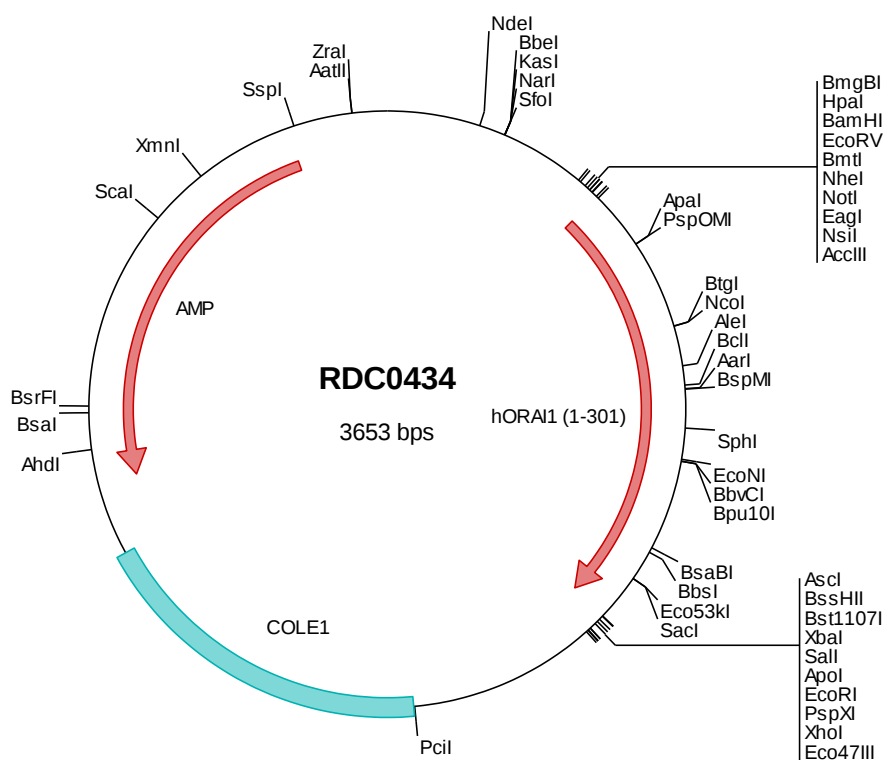
ORAI1 is a membrane calcium channel subunit that is activated by the calcium sensor STIM1 when calcium stores are depleted. ORAI1 is a pore subunit of Ca(2+) release-activated Ca(2+) CRAC channels, and STIM1 acts as an endoplasmic reticulum (ER) Ca(2+) sensor that detects store depletion. This type of channel is the primary way for calcium influx into T-cells. Defects in ORAI1 are a cause of immune dysfunction with T-cell inactivation due to calcium entry defect type 1.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS



> RDC0434 Plasmid DNA Sequence

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1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
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> RDC0434 Translated Insert Sequence

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301  a
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