

## Product datasheet for **RG221137**

### **ORAI2 (NM\_032831) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ORAI2 (NM\_032831) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** ORAI2  
**Synonyms:** C7orf19; CBCIP2; MEM142B; TMEM142B  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221137 representing NM\_032831  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTGCTGAGCTTAACGTGCCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCGGCCATAAGGGCA  
 TGGATTACCGGGACTGGTCCGCCGAGCTACCTGGAAGTGGTCACTCTAACCACCACTCGGTACAGGC  
 CCTGTCGTGGCGGAAGCTCTACCTGAGCAGGGCCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCT  
 TCCGGCTTGGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGCGCCGCTGC  
 TGATTGCCTTCAGCGCCTGCACCAGGTGCTGGTGGCCGTGCACCTGTTCCGCCCTCCTCATCAGCACCTG  
 CATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACCTGAACTCCATCAGCGAGTCCCGCATGAG  
 CGCATGCACCCCTACATCGAGCTGGCCTGGGGTCTCCACCGTGTGGCATCCTACTTCTCTGGCCG  
 AGGTGGTGTCTGCTGCTGGATCAAGTTCCTCCCGTGGATGCCCGGCCGAGCCTGGCCCCCACCTGG  
 CCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTGGGCCTCATC  
 TTCGTGGTCTTCACCATCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACAACCGCGAGA  
 TCGAGGAGCTCCACAAGCTCAAGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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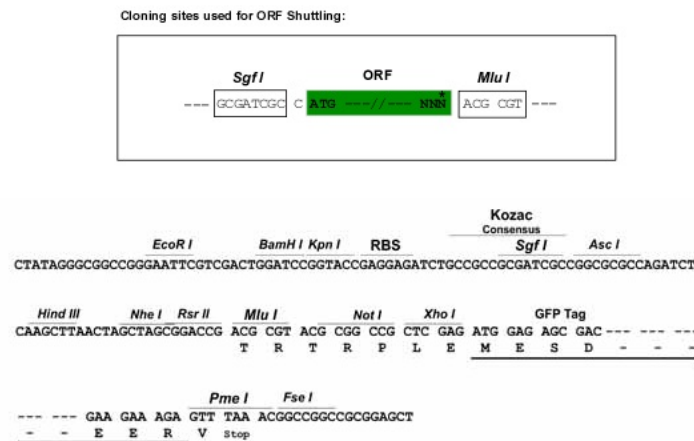
**Protein Sequence:** >RG221137 representing NM\_032831  
 Red=Cloning site Green=Tags(s)

MSAELNVPIDPSAPACPEPGHGKMDYRDWVRRSYLELVTSNHHSVQALSWRKLYLSRAKLGKASSRTSALL  
 SGFAMVAMVEVQLETQYQYPRPLLIASFACCTTVLVAVHLFALLISTCILPNVEAVSNIHNLNSISESPHE  
 RMHPYIELAWGFSTVLGILLFLAEVLLCWIKFLPVDARRQPGPPPGSHTGWQAALVSTIIMVPVGLI  
 FVVFTIHFYRSLVRHKTERHNREIEELHKLKVQLDGHERSLQVL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_032831

**ORF Size:** 762 bp

**OTI Disclaimer:** 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:**

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\\_032831.1](#), [NP\\_116220.1](#)

**RefSeq Size:** 2527 bp

**RefSeq ORF:** 765 bp

**Locus ID:** 80228

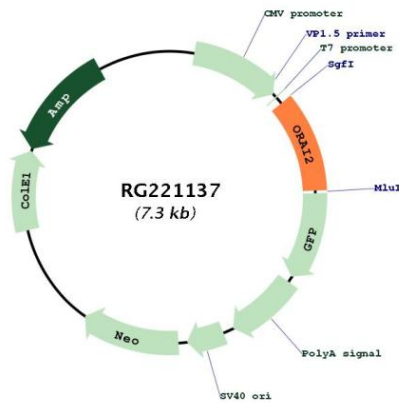
**UniProt ID:** [Q96SN7](#)

**Cytogenetics:** 7q22.1

**Protein Families:** Transmembrane

**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 RG221137