

## Product datasheet for **MC207942**

### Orai2 (NM\_178751) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Orai2 (NM\_178751) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Orai2  
**Synonyms:** A730041O15Rik; Tmem142b  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC207942 representing NM\_178751  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAGTGCAGAGCTCAATGTGCCCATGGACCCCTCTGCCCTGCCTGCCCTGAACCCGGCCACAAGGGCA  
TGGATTACCGAGACTGGGTCCGGCGCAGCTACCTGGAACCTCGTCACGTCTAACCACCATTCGGTGCAGGC  
ACTGTCCTGGAGGAAGCTCTACCTGAGCAGGGCCAAGCTGAAAGCCTCCAGCCGGACCTCAGCCCTCCTG  
TCTGGCTTCGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACCAAGTACCAGTACCCTCAGCCCTCCTG  
TCATTGCCTTCAGCGCCTGCACCACGGTCTGGTAGCCGTGCATCTGTTTGTCTGCTCATCAGCACTTG  
CATCCTGCCAACCGTGAAGCGGTGAGCAACATCCACAACCTCAACTCCATCAGCGAGTCGCCGCACGAG  
CGCATGCACCCGTACATCGAGCTGGCCTGGGGCTTCTCCACCGTTCTGGGCATCCTGCTTTTCTGGCTG  
AGGTGGTCTGCTCTGCTGGATCAAGTTCCTCCAGTGGATGCCAAGGATCAGCCAGGCTCCACAGCCA  
CACGGGCTGGCAGGCCGCTCTGGTGTCCACCATCATCATGGTACCTGTGGGTCTCATCTTCGTGGTCTTC  
ACCATCCTTCTACCGTTCCTGGTGGCACAAGACGGAGCGCCACAACCGTGAGATCGAAGAGCTGC  
ACAAGCTCAAGGTGCAGCTGGATGGGCACGAGCGGAGCCTGCAGGTGGT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_178751  
**Insert Size:** 753 bp



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|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_178751.3</a> , <a href="#">NP_848866.2</a>   |
| <b>RefSeq Size:</b>           | 3851 bp   |
| <b>RefSeq ORF:</b>            | 753 bp  |
| <b>Locus ID:</b>              | 269717  |
| <b>UniProt ID:</b>            | <a href="#">Q8BH10</a>  |
| <b>Cytogenetics:</b>          | 5 G2  |
| <b>Gene Summary:</b>          | 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.<br>[UniProtKB/Swiss-Prot Function]   |