

## Product datasheet for **RG225330**

### **ORAI2 (NM\_001126340) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ORAI2 (NM\_001126340) 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:** >RG225330 representing NM\_001126340  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGCTGAGCTTAACGTGCCTATCGACCCCTCTGCTCCTGCCTGCCCTGAGCCCGGCCATAAGGGCA  
TGGATTACCGGGACTGGTCCGCCGAGCTACCTGGAAGTGGTCACTCTAACCACCACTCGGTACAGGC  
CCTGTCGTGGCGAAGCTCTACCTGAGCAGGGCAAGCTGAAGGCCTCCAGCAGGACCTCCGCCCTCCTC  
TCCGGCTTGGCCATGGTGGCCATGGTGGAGGTGCAGCTGGAGACGCAGTACCAGTACCCGCGCCGCTGC  
TGATTGCCTTCAGCGCCTGCACCAGGTGCTGGTGGCCGTGCACCTGTTCCGCCCTCTCATCAGCACCTG  
CATCCTGCCCAATGTGGAGGCCGTGAGCAACATCCACAACCTGAACTCCATCAGCGAGTCCCGCATGAG  
CGCATGCACCCCTACATCGAGCTGGCCTGGGGTCTCCACCGTGTGGCATCCTACTTCTCTGGCCG  
AGGTGGTGTGCTCTGCTGGATCAAGTTCCTCCCGTGGATGCCCGGCCGAGCCTGGCCCCCACCTGG  
CCCTGGGAGTCACACGGGCTGGCAGGCCGCCCTGGTGTCCACCATCATCATGGTGGCCGTGGGCCTCATC  
TTCGTGGTCTTCACCATCCACTTCTACCGCTCCCTGGTGCGCCACAAAACGGAGCGCCACAACCGCGAGA  
TCGAGGAGCTCCACAAGCTCAAGTCCAGCTGGACGGGCATGAGCGCAGCCTGCAGGTCTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225330 representing NM\_001126340  
Red=Cloning site Green=Tags(s)

MSAELNVPIDPSAPACPEPGHKGM DYRDWVRRSYLELVTSNHHSVQALS WRKLYLSRAK LKASSRTSALL  
 SGFAMVAMVEVQLETQYQYPRLLIAFSACTTVLVAVHLFALLISTCILPNVEAVSNIHNLNSISESPHE  
 RMHPYIELAWGFSTVLGILLFLAEVLLCWIKFLPVDARRQPGPPPGSHTGWQAALVSTIIMVPVGLI  
 FVVFTIHFYRSLVRHKTERHNREIEELHKLKVQLDGHERSLQVL

TRTRPLE - GFP Tag - V

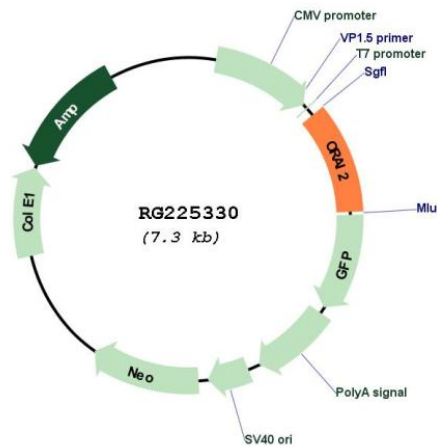
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001126340

**ORF Size:** 762 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001126340.3</a>
<b>RefSeq Size:</b>	10769 bp
<b>RefSeq ORF:</b>	765 bp
<b>Locus ID:</b>	80228
<b>UniProt ID:</b>	<a href="#">Q96SN7</a>
<b>Cytogenetics:</b>	7q22.1
<b>Protein Families:</b>	Transmembrane
<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. [UniProtKB/Swiss-Prot Function]