

## Product datasheet for **SC110144**

### TCIRG1 (NM\_006053) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TCIRG1 (NM_006053) Human Untagged Clone
Tag:	Tag Free
Symbol:	TCIRG1
Synonyms:	a3; Atp6i; ATP6N1C; ATP6V0A3; OC-116kDa; OC116; OPTB1; Stv1; TIRC7; Vph1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006053 unedited            GTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATCGGCACGAGGGACGGAGCGC            CTGGCCCAAGNAGCTGCGGGATGTGCGGGCAACCAGCAGGCCCTGCGGGCCAGCTGCAC            CAGCTGCAGCTCCACGCCCGCTGCTACGCCAGGGCCATGAACCTCAGCTGGCAGCCGCC            CACACAGATGGGGCTCAGAGAGGACGCCCTGCTCCAGGCCCGGGGGCCGACCAG            GACCTGAGGGTCAACTTTGTGGCAGGTGCCGTGGAGCCCCACAAGGCCCTGCCCTAGAG            CGCTGTCTGGAGGGCTGCCGCGCTTCCTCATTGCCAGCTTCAGGGAGCTGGAGCAG            CCGCTGGAGCACCCGTGACGGGCGAGCCAGCCACGTGGATGACCTTCCTCATCTCTAC            TGGGGTGAGCAGATCGGACAGAAGATCCGCAAGATCACGACTGCTTCCACTGCCACGTC            TTCCCGTTTCTGCAGCAGGAGGAGGCCCGCTCGGGGCCCTGCAGCAGCTGCAACAGCAG            AGCCAGGAGCTGCAGGAGTCTCGGGGAGACAGAGCGTTTCTGAGCCAGGTGTAGGC            CGGGTGTGCAGCTGCTGCCCGCAGGGCAGGTGCAGGTCCACAAGATGAAGGCCGTGTAC            CTGGCCCTGAACCAGTGCAGCGTGAGCACACGCACAAGTGCCTCATTGCCGAGGCTGG            TGCTCTGTGCGAGACCTGCCCGCTGCAGGAGGCCCTGCGGGACAGCTCGATGGAGGAG            GGAGTGAGTGCCGTGGCTCACCGCATCCCCTGCCGGGACATGCCNCCACTCATCCGC            ACCAACCGCTTACGGNACAGTTCCAGGCATCGTGGATGCCTACGGCGTGGGCCCTAC            CAGAAGGTCAACCCGCTTCTACACCAT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006053 unedited            TGGGACGACCGCCTTTTTCTCTCCTGCCTCANAGTCAGGNAAGAGGTCTGGCAGGAC            CTGCAGTGGGCCCTAGTCATCTGTGGCAGCGAAGGTGAAGGGACTCAGCTTGTAGCCCGT            GCCTGAGTAGAACTTGTCTGGAATTCACCCAGTGCAGCCGAGGGCGTGCAGGAAGGC            TGAGAGTCCCTCCATCACCAGCAGGATAGCCACGGTCATCACGGCAAAGGCGGCAAAGAT            GGGGACCAGCACACAGCCGCCACGCCACCTCCCGGCCAGGCCAGGCCTATGCGCAT            CACCATGGCCACAGAACCTCGGACAGCTGGGCGTGGGCCAGGCTCAGGGCCACAGGCG            CAGGTAGGAGGCGGTGTTGGAGACGCAGCCAGGCAGAACTCGATGGTGTGGATGGCCTG            GTGCATGAGCACCTTGGAGGGGACGAGCTCGGCCCTCTTTCATCATCCAGGCCCTGC            CTTTTCTCATCGGAGCTNACGCCATTCACAGATGCGTCAGGCAGGTCCAGCAACCCGGC            CTTGTTTTCTCTGTGCGTCAAGCAGCATGATGGGCACCATGGCCAAGGCCAGAACCCAG            CGTGGCCTGGGACACCTCCTGCCCGGGTTGAGNANCCTGTTGCTGGGGCTGCGGGAGAA            GAGGACATGTCTGTAATTGGATGGAGATGCTTGGGGCCGAGGCGGCCCTGNNACCCACC            ACCCCCTGCACCTTGGTTAGACTAGAACACAGCAGTAACCTAAGATTCCCAAGGAAGG            CATGCTTCTGTATGTTTCTATCACTCCCCGTGCCTTTGGGTCAATGGAAGTTGTTNAN            ACCTCCTGGTCACCCCTAAGCGCTGTCAACTATCCACTNCTACCGCTCCTCTTTACG            GTTTGTACACGCCTGTCCACTCT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006053
<b>Insert Size:</b>	2500 bp
<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_006053.2</a> , <a href="#">NP_006044.1</a>
<b>RefSeq Size:</b>	2480 bp
<b>RefSeq ORF:</b>	1845 bp
<b>Locus ID:</b>	10312
<b>UniProt ID:</b>	<a href="#">Q13488</a>
<b>Cytogenetics:</b>	11q13.2
<b>Domains:</b>	V_ATPase_sub_a
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Epithelial cell signaling in Helicobacter pylori infection, Lysosome, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection
<b>Gene Summary:</b>	<p>This gene encodes a subunit of a large protein complex known as a vacuolar H<sup>+</sup>-ATPase (V-ATPase). The protein complex acts as a pump to move protons across the membrane. This movement of protons helps regulate the pH of cells and their surrounding environment. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, and receptor-mediated endocytosis. V-ATPase is comprised of a cytosolic V1 domain and a transmembrane V0 domain. Alternative splicing results in multiple transcript variants. Mutations in this gene are associated with infantile malignant osteopetrosis. [provided by RefSeq, May 2017]</p> <p>Transcript Variant: This variant (2) encodes isoform b, also known as the TCIR7 protein. This protein is expressed in T lymphocytes and is essential for normal T cell activation. This variant uses a transcription start site that is within exon 5 of variant 1, and it also includes the following intron as part of its 5' UTR. The encoded isoform (b) is shorter than isoform a.</p>