

## Product datasheet for **MC221923**

### **Sidt2 (NM\_172257) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Sidt2 (NM_172257) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sidt2
Synonyms:	B930096O19; BC023957; CGI-40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221923 representing NM\_172257  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATCGCCTGGCGTCTGCCCTTGTCGTGCTCTTGGTGGCCTCCGTCGAGAGCCACCTGGGGCCCTGG  
 GGCCAAAGAACGTCTCGCAGAAAGACGCGGAGTTTGGAGCCACCTACGCGGACGACGTCAACAGCGAGCT  
 GGTCAACATCTACACCTTCAACCACACCGTGACCCGCAACCGGACCGAGGGTGTGCGAGTGTCTGTGAAT  
 GTCCTGAACAAGCAGAAAGGGGCGCCTTTGCTGTTTGGTCCGCCAGAAGGAGGCTGTTGTGCTCTTCC  
 AGGTGCCCTAATCCTTCGAGGACTATATCAGCGGAAGTACCTCTACAAAAAGTGAACGAACTCTGTG  
 TCAGCCCCCACCAAGAATGAGTCTGAGATCCAGTTTTTCTATGTGGACGTGTCTACCCTGTACCCGTC  
 AATACCACTTACCAGCTCCGAGTCAACCGTGTGGACAATTTGTGCTCAGGACTGGAGAGCTGTTACTT  
 TTAATACCACTGCAGCCAGCCAGTACTTCAAATACGAGTTTCTGATGGTGTGGACTCGGTAATTTGT  
 CAAGGTGACCTCCAAGAAGGCCCTCCCTGCTCAGTCATCTCCATCCAAGATGTCTGTGCCCTGTCTAT  
 GATCTGGACAACAATGTAGCCTTATTGGCATGTACCAGACGATGACTAAGAAGGAGCCATCACTGTGC  
 AGCGGAAAGACTTCCCCAGCAACAGCTTCTATGTGGTGGTGTAGTGAAGACTGAGGACCAGGCCTGCGG  
 AGGGTCTTTGCCCTTCTACCCCTTTGTGGAAGATGAGCCAGTGGATCAAGGGCACCGTCAGAAAACACTG  
 TCAGTGTGGTCTCTCAGGCTGTACATCTGAGGCCTATGTTGGTGGGATGCTCTTTGCCCTGGGCATAT  
 TCTTGTCTTCTACCTGTGACTGTGCTGCTGGCCTGTTGGGAGAAGTGGAGGCAAGGAAGAAGACCTT  
 GCTGTTGGCCATAGACCGAGCCTGCCAGAAAGTGGTACGCCCCGGTCTGGCTGATTCATTTCTGGC  
 AGTGCCCTTACGAGGGTTACAACATAGGCTCCTTTGAAAATGGTCCGGATCCACTGACGGGTTGGTTG  
 AAAGCGCAGGTTACAGGGACCTCCTACAGTTACCAGGACCGCTCCTTTGACGCACTGGGTCCTCGGCC  
 TCGACTGGACTCCATGAGCTCCGTGGAAGAGGATGACTACGACACACTGACTGACATCGACTCAGACAAA  
 AACGTCATTGCAACCAAGCAATACCTCTGTGTGGCTGATCTGGCAGAAAGGACAACGTTTTTGCAGG  
 AAAAGTACCAGATTTACTTCTGGAACATAGCCACCATTGCGGTCTTCTACGCACTTCTGTGGTGCAGCT  
 GGTGATCACCTACCAGACGGTGGTGAATGTCACAGGGAACAGGACATCTGCTACTACAACCTCCTCTGT  
 GCCACCCGCTGGGCAACCTCAGCGCCTTCAACAACATCCTCAGCAACTTGGGGTACATCCTGCTGGGGC  
 TGCTCTTCTGCTCATCATCCTGCAGCGAGAGATCAATCATAACCGGGCCCTGCTGCGGAATGACCTCTA  
 TGCTCTGGAGTGTGGATCCCCAACACTTTGGTCTGTTTTACGCCATGGGCACAGCACTGATGATGGAG  
 GGGCTACTTAGTGCCTGTTACCACGTCTGCCCCAACTACACCAACTTCCAGTTTGATACCTCCTTATGT  
 ACATGATTGCTGGCCTCTGCATGCTGAAGCTCTACCAGAAGCGGCACCCAGATATCAACGCCAGTGCCTA  
 CAGTGCATATGCCTGCTTGGCCATCGTCATCTTCTTCTCCGTTCTGGGCGTGGTGTGGCAAAGGGAAC  
 ACGGCCTTCTGGATTGTCTTCTCCGTCATTACATCATCTCCACCTGCTCCTCAGCACTCAGCTCTATT  
 ACATGGGCGCTGGAAGCTGGACTCCGGGATCTTCCGCCGATCCTCCATGTGCTCTACACAGACTGCAT  
 CCGGCAGTGCAGCGGGCCCTTTACACGGACCGCATGGTGTCTTGGTGCATGGGCAACATTATCAACTGG  
 TCGCTGGCTGCATACGGACTCATATGCGCCCCAATGACTTTGCTTCTACTTGTGGAATTGGCATCT  
 GCAACCTGCTGCTTTATTTGCTTCTACATCATATGAAGCTCCGGAGCGGCGAGAGGATCAAGCTCAT  
 CCCTCTGCTCGCATCGTCTGCACCTCCGTGGTCTGGGGCTTCCGCTCTTCTTCTTCCAGGGACTG  
 AGCACGTGGCAGAAAACCCCGCAGAGTCCAGGGAGCACAACCGGACTGCATCCTCCTCGACTTCTTTG  
 ATGACCACGATATCTGGCACTTCTGTCTCCATTGCCATGTTTGGGTCCTTCTGGTTTTGCTGACGTT  
 GGATGACGACTTGGACACAGTACAGCGGACAAGATCTATGTCTT**AG**

**ACGGCT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul  
 ACCN: NM\_172257  
 Insert Size: 2499 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_172257.4</a> , <a href="#">NP_758461.1</a>
<b>RefSeq Size:</b>	4239 bp
<b>RefSeq ORF:</b>	2499 bp
<b>Locus ID:</b>	214597
<b>UniProt ID:</b>	<a href="#">Q8CIF6</a>
<b>Cytogenetics:</b>	9 A5.2
<b>Gene Summary:</b>	<p>Mediates the translocation of RNA and DNA across the lysosomal membrane during RNA and DNA autophagy (RDA), a process in which RNA and DNA is directly imported into lysosomes in an ATP-dependent manner, and degraded (PubMed:27046251, PubMed:27846365, PubMed:28724756). Involved in the uptake of single-stranded oligonucleotides by living cells, a process called gymnosis (PubMed:28277980). In vitro, mediates the uptake of linear DNA more efficiently than that of circular DNA, but exhibits similar uptake efficacy toward RNA and DNA (PubMed:27846365). Binds long double-stranded RNA (dsRNA) (500 - 700 base pairs), but not dsRNA shorter than 100 bp (PubMed:26067272).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>