

Product datasheet for **MC229050**

Sidt2 (NM_001289668) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sidt2 (NM_001289668) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sidt2
Synonyms:	B930096O19; BC023957; CGI-40
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229050 representing NM_001289668
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCGCCTGGCGTCTGCCCTTGTGCGTGCTCTTGGTGGCCTCCGTCGAGAGCCACCTGGGGCCCTGG
 GGCCCAAGAACGTCTCGCAGAAAGACGCGGAGTTTGGAGCCACCTACGCGGACGACGTCAACAGCGAGCT
 GGTCAACATCTACACCTTCAACCAACCCGTGACCCGCAACCGGACCGAGGGTGTGCGAGTGTCTGTGAAT
 GTCCTGAACAAGCAGAAAGGGGCGCCTTTGCTGTTTGTGGTCCGCCAGAAGGAGGCTGTTGTGCTCTTCC
 AGGTGCCCTAATCCTTCGAGGACTATATCAGCGGAAGTACCTCTACAAAAAGTGAACGAACTCTGTG
 TCAGCCCCCACCAGAATGAGTCTGAGATCCAGTTTTTCTATGTGGACGTGTCTACCCTGTACCCGTC
 AATACCACTTACCAGCTCCGAGTCAACCGTGTGGACAATTTGTGCTCAGGACTGGAGAGCTGTTACTT
 TTAATACCACTGCAGCCAGCCAGTACTTCAAATACGAGTTTCTGATGGTGTGGACTCGTAATTGT
 CAAGGTGACCTCCAAGAAGGCCCTCCCCTGCTCAGTCATCTCCATCCAAGATGTCTGTGCCCTGTCTAT
 GATCTGGACAACAATGTAGCCTTATTGGCATGTACCAGACGATGACTAAGAAGGCAGCCATCACTGTGC
 AGCGGAAAGACTTCCCCAGCAACAGCTTCTATGTGGTGGTGGTAGTGAAGACTGAGGACCAGGCCTGCGG
 AGGGTCTTTGCCCTTCTACCCTTTTGTGGAAGATGAGCCAGTGGATCAAGGGCACCGTCAGAAAACACTG
 TCAGTGTGGTCTCTCAGGCTGTACATCTGAGGCCTATGTTGGTGGGATGCTCTTTGCCCTGGGCATAT
 TCTTGTCTTCTACCTGCTGACTGTGCTGCTGGCCTGTTGGGAGAAGTGGAGGCAAGGAAGAAGACCTT
 GCTGTTGGCCATAGACCGAGCCTGCCAGAAAGTGGTACGCCCCGGTCTGGCTGATTCATTTCTGGC
 AGTCCCCTTACGAGGGTTACAACATGGCTCCTTTGAAAATGGTCCGGATCCACTGACGGGTTGGTTG
 AAAGCCAGGTTACAGGGACCTCTCTACAGTTACCAGGGGACGACCAAGTTCAAGCGGCCCTTCCCTC
 TGGCCAGATGCGGCAGCTGTGCATTGCCATGGACCGCTCCTTTGACGCAGTGGGTCTCGGCCTCGACTG
 GACTCCATGAGCTCCGTGGAAGAGGATGACTACGACACACTGACTGACATCGACTCAGACAAAAAGTCA
 TTCGAACCAAGCAATACCTCTGTGTGGCTGATCTGGCACGAAAGGACAAACGTGTTTTGCGGAAAAAGTA
 CCAGATTTACTTCTGGAACATAGCCACCATTGCGGTCTTCTACGCACTTCTGTGGTGCAGCTGGTATC
 ACCTACCAGACGGTGGTGAATGTCACAGGGAACCAGGACATCTGCTACTACAACCTTCTGTGCCACC
 CGCTGGCAACCTCAGCGCCTTCAACAACATCCTCAGCAACTGGGGTACATCCTGCTGGGGCTGCTCTT
 CCTGCTCATCATCTGCAGCGAGAGATCAATCATAACCGGGCCCTGCTGCGGAATGACCTCTATGCTCTG
 GAGTGTGGGATCCCCAACACTTTGGTCTGTTTTACGCCATGGGCACAGCACTGATGATGGAGGGGCTAC
 TTAGTGCCTGTTACCACGTCTGCCCAACTACACCAACTTCCAGTTTGATACCTCCTTACGTACATGAT
 TGCTGGCCTCTGCATGCTGAAGCTTACCAGAAGCGGCACCCAGATATCAACGCCAGTGCCTACAGTGCA
 TATGCCTGCTTGGCCATCGTCATCTTCTTCTCCGTTCTGGGCGTGGTGTGGCAAGGGGAACACGGCCT
 TCTGGATTGTCTTCTCCGTCATTCACATCATCTCCACCCTGCTCCTCAGCACTCAGCTCTATTACATGGG
 CCGCTGGAAGCTGGACTCCGGGATCTCCGCGCATCCTCCATGTGCTCTACACAGACTGCATCCGGCAG
 TGCAGCGGGCCCTTTACACGGACCGCATGGTGTCTTGGTATGGGCAACATTCAACTGGTCTGCTGG
 CTGCATACGCACTCATCATGCGCCCAATGACTTTGCTTCTACTTGTGGCAATTGGCATCTGCAACCT
 GCTGCTTTATTTGCGCTTCTACATCATCATGAAGCTCCGGAGCGGCGAGAGGATCAAGCTCATCCCTCTG
 CTCTGCATCGTCTGCACCTCCGTGGTCTGGGGCTTCGCGCTCTTCTTCTTCCAGGGACTGAGCACGT
 GGCAGAAAACCCCGCAGAGTCCAGGGAGCACAACCGGACTGCATCCTCCTCGACTTCTTTGATGACCA
 CGATATCTGGCACTTCTGTCTCCATTGCCATGTTGGGTCTTCTGTTTGTGCTGACGTTGGATGAC
 GACTTGGACACAGTACAGCGGGACAAGATCTATGTCTT**C**TA**G**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001289668
Insert Size: 2562 bp

OTI Disclaimer:	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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001289668.1</u> , <u>NP_001276597.1</u>
RefSeq Size:	4302 bp
RefSeq ORF:	2562 bp
Locus ID:	214597
UniProt ID:	<u>Q8CIF6</u>
Cytogenetics:	9 A5.2
Gene Summary:	<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 (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>