

Product datasheet for **SC316840**

SIDT2 (NM_001040455) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIDT2 (NM_001040455) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIDT2
Synonyms:	CGI-40
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC316840 sequence for NM_001040455 edited (data generated by NextGen Sequencing)

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ATGTTTCGCTCTGGGCTTGCCCTTCTTGGTGCTCTTGGTGGCCTCGGTCGAGAGCCATCTG
GGGGTTCTGGGGCCAAGAACGTCTCGCAGAAAGACGCCGAGTTTGAGCGCACCTACGTG
GACGAGGTCAACAGCGAGCTGGTCAACATCTACACCTTCAACCATACTGTGACCCGCAAC
AGGACAGAGGGCGTGCCTGTGTCTGTGAACGTCTGAACAAGCAGAAGGGGGCGCCGTTG
CTGTTTTGTGGTCCGCGCAAGGAGGCTGTGGTGTCTTCCAGGTGCCCTAATCCTGCGA
GGGATGTTTTAGCGCAAGTACCTCTACCAAAAAGTGGAACGAACCCTGTGTCAGCCCCC
ACCAAGAATGAGTCGGAGATTCACTTCTTCTACGTGGATGTGTCCACCCTGTCCACAGTC
AACACCACATACCAGCTCCGGGTCAGCCGCATGGACGATTTTGTGCTCAGGACTGGGGAG
CAGTTCAGCTTCAATACCACAGCAGCACAGCCCCAGTACTTCAAGTATGAGTTCCCTGAA
GGCGTGGACTCGGTAATTGTCAAGGTGACCTCCAACAAGGCCCTCCCTGCTCAGTCATC
TCCATTACAGGATGTGCTGTGCTCTATGACCTGGACAACAACGTAGCCTTCATCGGC
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AACAGCTTTTATGTGGTGGTGGTGAAGACCGAAGACCAAGCCTGCGGGGGCTCCCTG
CCTTTCTACCCCTTCGCAGAAGATGAACCGGTGATCAAGGGCACCGCCAGAAAACCTG
TCAGTGCTGGTGTCTCAAGCAGTCACGTCTGAGGCATACGTCAAGTGGGATGCTCTTTTGC
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AACAACTCCTCAGCAACCTGGGGTACATCCTGCTGGGGTCTTTTCTGCTCATCATC
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TGTGGGATCCCCAACACTTTGGGCTTTTCTACGCCATGGGCACAGCCCTGATGATGGAG
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GACATCAACGCCAGCGCCTACAGTGCCTACGCCTGCCTGGCCATTGTCATCTTCTCTCT
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CACATCATCGCCACCCTGCTCCTCAGCACGCAGCTCTATTACATGGGCGGGTGGAAACTG
GACTCGGGGATCTTCCGCCGATCCTCCACGTGCTCTACACAGACTGCATCCGGCAGTGC
AGCGGGCCGCTCTACGTGGACCGCATGGTGTGCTGGTGTGATGGGCAACGTCACTCACTGG
TCGCTGGCTGCCTATGGGCTTATCATGCGCCCCAATGATTTGCTTCTACTTGTGGCC
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TTCGCGCTCTTCTTCTTCCAGGGACTCAGCACCTGGCAGAAAACCCCTGCAGAGTGC
AGGGAGACAACCGGGACTGCATCCTCCTCGACTTCTTTGACGACCACGACATCTGGCAC
TTCCTCTCCTCCATCGCCATGTTCCGGTCTTCTGCTGTGCTGACACTGGATGACGAC
CTGGATACTGTGCAGCGGACAAGATCTATGTCTCTAG

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Clone variation with respect to NM_001040455.1

Restriction Sites: Please inquire
ACCN: NM_001040455
Insert Size: 4100 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:	The ORF of this cDNA clone is found to be a perfect match to NM_001040455.1.
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:	NM_001040455.1 , NP_001035545.1
RefSeq Size:	3919 bp
RefSeq ORF:	2499 bp
Locus ID:	51092
UniProt ID:	Q8NBJ9
Cytogenetics:	11q23.3
Protein Families:	Transmembrane
Gene Summary:	Mediates the translocation of RNA and DNA across the lysosomal membrane during RNA and DNA autophagy (RDA), a process in which RNA or DNA is directly imported into lysosomes in an ATP-dependent manner, and degraded (PubMed:27046251, PubMed:27846365). Involved in the uptake of single-stranded oligonucleotides by living cells, a process called gymnosis (PubMed:28277980). Involved in the uptake of single-stranded oligonucleotides by living cells, a process called gymnosis. In vitro, mediates the uptake of linear DNA more efficiently than that of circular DNA, but exhibits similar uptake efficacy toward RNA and DNA. Binds long double-stranded RNA (dsRNA) (500 - 700 base pairs), but not dsRNA shorter than 100 bp (By similarity).[UniProtKB/Swiss-Prot Function]