

Product datasheet for **RN211829**

Sidt2 (NM_001108142) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sidt2 (NM_001108142) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Sidt2
Synonyms:	RGD1308311
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN211829 representing NM_001108142

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACGTCAGCGGGCGGCGCAGCCCCGCTGTTTACCGCGGCGGCGCCTGGTGGCCCCGAGTTCTGTG
CCGCGTCCGCGCCCTTAAAGGGCCCGCTCCGGGAAGCCTACGGGCCAGGGCCACCGCCGCTCGGCTC
TCCGGGCGGAGCGGACCGGGTCTCCAGCGGGCTGGGCGGGCTGGGTTGCGGGTCCGGTCCCGC
CCACGCGAGCCGGGTCCGCGGAGGCCAGGAGCGGCTCCAGGGAGGGGACGCGTCTATCTCAGGCCG
GGGTTAAAGTTCTGGTCCCGGTGAGATGCTGGAAGCTGCTGCGGCAGCCGCAACGCGCCCGTCCGCGT
CCGTCGCCAGCCCCCGCCGCCCGGGCCATGATCGCTGGCGTCTGCCCTTGTGCGTCTCTGGTGGCC
GCCGTCGAGAGCCACCTGGGGCTCTGGGGCCAAAGACGCTCTCGCAGAAAGACGCGGAGTTTGAGCGCA
CCTACGCGGACGACGCTAACAGCGAGCTAGTCAACATCTACACCTTCAACCACACCGTGACCCGCAACCG
GACCGAGGGCGTGCAGTGTCTGTGAACGTCCTGAACAAACAGAAAGGGGCGCCTTGTCTGTTGCGTGC
CGCAGAAAGGAGGCTGTTGTGCTCTCCAGGTGCCCTAATCCTGCGAGGGCTATACCAGCGTAAGTACC
TCTACAAAAAGTTGAACGAACTCTGTGTCAGCCCCCACCAAGAATGAGTCTGAGATCCAGTTTTTCTA
TGTGGATGTGCTACCCTGTACCAGTCAATACCCTTACCAGCTCCGAGTCAACCGTGTGGACAATTTT
GTGCTCAGGACTGGGGAGCTGTTACCTTCAATACCCTGCAGCCCAACCCAGTACTTCAAATACGAGT
TTCCTGATGGTGTGGACTCTGTCAATTGTCAAGGTGACCTCCAAGAAGGCCTTCCCTGCTGTGCATCTC
CATCCAGGATGCTGTGCCAGTCTATGATCTTGACAACAATGTAGCCTTATCGGCATGTACCAGACA
ATGACTAAGAAGGAGCCACTACTGTGCAGAGGAAAGACTTCCCAGCAACAGTTTTTATGTGGTGGTGG
TGGTGAAGACTGAGGACAGGCTGCGGGGGTCTTGCCTTCTACCTTTCGTTGGAAGATGAACAGT
GGATCAAGGGCACCGTCAAGAAACCTGTGAGTGTGGTCTCTCAGGCTGTCACTTCTGAGGCTACGTT
GGTGGGATGCTCTTTGCTGGGCATATTCCTGTGCTTCTACCTGCTGACTGTGCTGCTGGCCTGTTGGG
AGAAGTGGAGGCAAGGAAGAAGACCTTGTGGTGGCCATAGACCGAGCCTGCCAGAAAGCGGTACCC
TCGGGTCTGGCTGATTCGTTTCTGGCAGTGCCCTATGAGGGTTACAACATAGGCTCTTTGAGAAT
GGTCCGGATCCACTGACGGTGGTGAAGACAGGTTAGGGGACCTCTCTACAGTTACCAGGGG
ACGACCAGTTCAAGCGCGCCTTCCCTGCGCCAGATGCGGCAGCTGTGCATTGCCATGGACCGCTCCTT
TGACCCAGTGGGAGCTCGCCACGACTGGACTCCATGAGCTCCGTGGAAGAGGATGACTATGACACACTG
ACTGACATCGACTCAGACAAAAACGTCATTGCAACCAAGCAATACCTCTGTGGCTGATCTGGCAGAA
AGGACAAACGTTTACGGAAAAAGTACCAGATTTACTTCTGGAACATAGCCACCATTCAGTCTTCTA
CGCCCTTCTGTGGTGCAGCTGGTGATCACCTACCAGACGGTGGTGAATGTCACGGGGAACAGGACATC
TGCTACTACAACCTTCTGTGCCACCCACTGGGCAACCTCAGCGCCTTCAACAACATCCTCAGCAACC
TGGGGTACATTCTGCTGGTCTGCTCTTCTGCTCATCATCCTGCAGCGGGAGATCAATCATAACCGGGC
CCTGCTGAGAAATGACCTCTATGCTCTGGAGTGTGGGATCCCCAACACTTTGGTCTATTTATGCCATG
GGCACAGCGTTGATGATGGAGGGGCTACTGAGTGCCTGTACCACGTCTGCCCAACTACACCAACTTCC
AGTTCGATACCTCGTTCATGTACATGATTGCTGGCCTTGATGCTGAAGCTTACCAGAGCGGCACCC
AGATATCAAGCCAGCGCTACAGCGCATACGCTGGCCATTGTGATCTTCTCCGCTCTGGGT
GTGGTTTTTGGCAAAGGGAACACAGCCTTCTGGATCGTCTTCTCAGTCAATCCATATCATTCCACGCTTC
TCTCAGCACTCAGCTGTATTACATGGGCCGCTGGAAGCTGGACTCCGGAATCTTCCGCCATCCTTCA
TGTGCTCTACACAGACTGCATCCGGCAGTGCAGCGGGCCCTTACACGGACCGCATGGTCTTCTGGT
ATGGGCAACATTCAACTGGTCTGCTGCCTACGGACTCATCATGCGCCAAATGACTTTGCTCCT
ACTTGTGGCAATTGGCATCTGCAACTGCTGCTGATTTTGTCTTCTACATCATTATGAAGCTCCGGAG
CGGCGAGAGGATCAAGCTCATCCCTGCTCTGCATCGTGTGCACCTCCGTGGTCTGGGGCTTCGCACTC
TTCTTCTTCCAGGGACTCAGCACGTGGCAGAAACCCCGCAGAGTCCAGGGAGCACAAACCGAGACT
GCATCCTCCTGACTTCTTTGATGACCAGACATCTGGCACTTCTGCTCCTCCATTGCTATGTTGGGTC
CTTCTGGTTTTATTGACGTTGGATGACGACTTGACACTGTACAGCGGACAAGATCTATGCTCT**TAG**

AC**CGGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-NotI
ACCN:	NM_001108142
Insert Size:	2940 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).
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_001108142.1</u> , <u>NP_001101612.1</u>
RefSeq Size:	4741 bp
RefSeq ORF:	2940 bp
Locus ID:	315617
UniProt ID:	<u>D3ZEH5</u>
Cytogenetics:	8q22
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. Involved in the uptake of single-stranded oligonucleotides by living cells, a process called gymnosis (By similarity). 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]