

Product datasheet for **MC229056**

Sort1 (NM_001271599) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sort1 (NM_001271599) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sort1
Synonyms:	2900053A11Rik; AI852375; Ntr3; Ntsr3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC229056 representing NM_001271599
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCGGCCCGGGGAGCTGCGGACGGCCTTTTGGCTGGCCCTCGCCTCCTCTGCTCCTTCAAC
 TGCTGCCTCCTGCCGCCGTCGGCCAGGACCGGCTGGACGCGCCGCCGCCCGCCGCTCCTCTGCTGCG
 CTGGGCCGGTCCGGTCCGGGTGAGCTGGGGGTGCGCGCCGCCGCCGCCGGGGGCCCGTCCCCCGCT
 GGCCGTTGGCGCCGCCGCCGCCGCCGAGGACCAAGACTGCGGCCGCTCCCGACTTCATCGCCAAGC
 TGACCAACAATACGCACCAGCATGTCTTTGATGACCTCAGTGGCTCAGTGTCTTGTCTGGGTTGGAGA
 CAGCACTGGGGTTATTCTCGTCTGACCCTTTCCAAGTGCCTCTGGTAATTGTGAGCTTTGGACAGTCC
 AAGTTGTATCGAAGTGAAGATTATGAAAGAACTTAAGGATATTACAAATCTCATCAATAACACCTTCA
 TTCGGACGGAATTTGGCATGGCTATTGGTCTGAGAACTCTGAAAGGTGATACTAACAGCGGAGGTGTC
 CGGGGGAAGCCGAGGCGGAAGAGTGTTCAGGTCATCAGACTTTGCCAAGAACTTTGTGCAACAGATCTC
 CCCTTTCATCCTCTGACGCAGATGATGTACAGCCCTCAGAATTCTGATTACCTGTAGCTCTCAGCACCG
 AAAATGGCCTGTGGGTGTCCAAGAATTTGGGGAAAAATGGGAAGAAATCCACAAAGCAGTATGTTTGGC
 CAAATGGGGACCAAAACAATCATCTTCTTTACCACCCATGTGAATGGCTCCTGCAAAGCTGATCTTGGT
 GCCCTGGAATTATGGAGAATCCGACTTGGGAAAAACCTTCAAACCATTTGGTGTGAAAATCTACTCCT
 TTGGTCTTGGGGCCGTTTCTTTTTGCCTCTGTGATGGCTGATAAGGACACAACAAGAAGGATCCATGT
 GTCAACAGACCAGGGGACACATGGAGCATGGCACAACCTCTTCTGTGGGACAGGAACAGTTCTACTCC
 ATCCTGGCAGCCAATGAGGACATGGTCTTCAATGCATGTAGATGAACCTGGAGATACCGGGTTTGGCACCA
 TCTTTACCTCTGATGATCGAGCATTGTCTACTCCAAGTCTCTGGACAGACATCTATACCACCAGAG
 CGGGGAGACGGACTTTACCAACGTGACTTCCCTCCGTGGGGTCTATATAACAAGCACGCTCTCAGAAGAT
 AACTCTATTACAGCATGATCACTTTTACCAGGGAGGACGGTGGGAGCACCTGCGGAAGCCGGAGAACA
 GCAAGTGCAGCGTACCCAAAGAACAAGAACGAGTGCAGCCTTCATATCCATGCTTCTTATAGCATCTC
 CCAGAAGCTAAACGTTCCAATGGCCCACTTCCGAGCCCAATGCTGTGGGCATAGTCATCGCTCACGGT
 AGTGTGGGAGATGCCATCTCGGTGATGGTCCCAGATGTGTACATCTCAGATGATGGGGTTACTCCTGGG
 CGAAGATGCTAGAAGGACCACATTACTATACCATCCTGGACTCTGGAGGCATCATTGTGGCCATTGAGCA
 CAGCAACCGTCTATCAATGTGATTAAGTTCTCCACAGATGAAGGCCAGTGTGGCAGAGCTATGTGTT
 ACACAGGAGCCCTACTTCACTGGGCTTGCTTCCGAGCCTGGAGCCAGTCCATGAACATCAGCATCT
 GGGGATTCACAGAGTCTTTCATTACCCGCCAGTGGGTCTCCTACACAGTCGATTTCAAAGACATCCTTGA
 GCGGAATTGTGAAGAGGATGACTATACCAGTGGCTGGCACACTCCACAGACCCTGGAGATTACAAGAC
 GGCTGCATTTTGGGCTATAAAGAACAGTTCCTACGGCTACGGAAGTCATCCGTCTGTGAGAATGGTCGAG
 ACTATGTTGTGGCCAAGCAGCCATCCGTCTGTCCGTGTTCCCTGGAGGACTTCTCTGTGACTTTGGCTA
 CTTCCGTCCGGAGAACGCCTCAGAGTGGTGGAGCAGCCTGAACTGAAGGGGCATGAGTTAGAGTTCTGT
 CTGTACGGCAAGGAGGAGCACCTGACAACAAATGGGTACCGGAAAATCCCAGGAGACAAATGCCAAGGTG
 GGATGAATCCCAGCAGAGAAGTAAAAGACTTAAAAAGAAATGCACAAGCAACTTCTTGAACCCACAAA
 GCAGGACTCCCGCCACAGGGACACAGCTTGCCAGAATCCAGCTCCGCTCCTCTTGGATACACTGAA
 AACACACACTTCTATCTCCTACCCAGAAGCAGAATTCCAAGTCAAATTCTGTCCCTATTATCCTGGCCA
 TCGTGGGACTGATGCTTGTACAGTCGTAGCAGGAGTCTCATTGTGAAGAAATATGTCTGTGGCGGAAG
 GTTCTGGTGCACCGTACTCGGTGCTACAGCAGCACGACAGGCTGACGGCGTAGAGGCTTTGGATTCA
 ACCTCCCACGCTAAAAGCGGATATCACGACGACTCAGATGAGGACCTCCTGGAA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271599
Insert Size: 2577 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_001271599.1, NP_001258528.1</u>
RefSeq Size:	6950 bp
RefSeq ORF:	2577 bp
Locus ID:	20661
UniProt ID:	<u>Q6PHU5</u>
Cytogenetics:	3 F3
Gene Summary:	<p>Functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Also required for protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by mediating endocytosis of the proapoptotic precursor forms of BDNF (proBDNF) and NGFB (proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the extracellular matrix during osteogenic differentiation by scavenging extracellular LPL. Probably required in adipocytes for the formation of specialized storage vesicles containing the glucose transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport from the endoplasmic reticulum to the Golgi.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>