

## Product datasheet for **MR222349**

### Sorbs1 (NM\_178362) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sorbs1 (NM_178362) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sorbs1
Synonyms:	2310065E01Rik; 9530001P15Rik; CAP; mKIAA1296; Sh3d5; SH3P12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>MR222349 representing NM\_178362  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGTTCGAATGTGATGTTGGAAGCTCTAAAGCTGTGGTGAATGGCTTGGCATCTGGCAACCATGGAC  
 CAGACAAAGACATGGACCTACCAAATCTGCACTGGGAAAGGAACAGTACTCTTCGGGCTCGTCTTC  
 CTACAGGGGAACCCCAAGCAGCAGCCCTGTGAGCCCCAGGAATCTCCGAAGCATGAAAGCAAGTCAGAT  
 GAATGGAACTTTCTTCCAGTGCAGATACCAATGGCAACGCCAGCCCTCCCACTTGTCTGCAAGGGCT  
 ATAGAAGTGTGCATCCCAGCCTTTCTGTGACAAGCCCCAGGGTCCACCTCCTCCAGCTCAGCCCCGTC  
 TGAGGTAATAGTTGTTCTCTACCTGGTTAATACTGACAGAGGGCAAGGGCAAGAAGGCACTGCCAGA  
 ACTCCAGCATCTCTGGGGCCACTTGGCTGCGTCCACACTGTCCCGGCGACCACCCTGTGCCTCACCTC  
 TGACCTTCCCGACTCGATGATTTTATCCCCCTCACCTGCAGAGGGCGCCACCACAGCCAGCCAGC  
 CAGTGCTTGTGGCTCCCTCTCCCTGTAGCCAGACGTACCACCCTCACCACCCTCCGCTGGTCCCT  
 CCCGTCGCGGAGGACCTCCACAGAGGCCTGGAGCCTGACCTCCCGGAGCTGTCTCAAGTACCGGAGTC  
 CTTTACTAAACGAAGTTTCTTCTCCACATTGAAACCGATTCCCAAGACTTCCCTCCAACAAGCAGACC  
 TTCGTCTGCCTACCCCTCCACCACCATCGTCAACCCTACCATTGTCTCTGCAGACAATCGAGAGCAG  
 CAAAAGCGACTCAGTAGTCTTTCAGATCCTGCCTCAGAGAGAAGAGCGGGTGAGCAGGACCCAGTACAA  
 CCCAGCAGAACTCACTTCGCCCCGAGGGCTTCTGAGAGAAGGGCAAAGGATGCTAGCAGACGGGTGGT  
 GAGGAGCACACAGGACCTGAGCGATGTGTCTACAGATGAAGTGGGCATCCCACTCCGGAATACCGAGCGA  
 TCGAAAGACTGGTACAAAATATGTTTAAACAGATCCAAAAGTGAACAGAGACTCCTGAGGAAAAC  
 CTTATTTCCCTACGTACAAAATCCCGAGCTTCCAGAAAATCCTGCAGAATTCTGAAGAGGACAGCTTTA  
 CACTCCTACCTACCAGTTTCTGTCATCTACGCCTAGTCCTAAGTCAGAAGATGATGATTCTGATGCCAT  
 TCCCTCGATATTCCTTCTGTGACGACAAAAGTCTCCCTTTCTGTGCCTCGCTCAAAAAGTGAGATGA  
 ACTACATCGAAGGGGAGAAAAGTGGTTAAGAGGTCCGCCACTCCCGCTCCAGCCCGCTCCTCCTCACT  
 CAAGTCCAGCCCGAAAGAAACGACTGGGAGCCCCAGATAAGAAAGTGGATACGAGAAAATACCGAGCA  
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 GAGACCGCTCCAAAAAGATATGGGACTATACTCCTGGAGACTGCTCTATCCTTCTAGAGAGGATAGA  
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 CCGTAAATAAATACCCAGTGCAAACTCGCCACAGAGCTCAGCAGTCAGCCCGACTCCAGACATTACGTC  
 AGAGCCTCCTGGATATATCTATTCTTCCAACTCCATGCAGTGAAGAGAGAATCGGACGGGACCCCGGG  
 GGTCTCGTAGCTTGGAGAATGAGAGGCAGATCTATAAGAGTGTCTTGAAGGTGGCGACATCCCTCTTC  
 AGGGCCTCAGTGGGCTCAAGCGACCTTCCAGCTCAGCTTCCACTAAAGATTCAGAGTCACCAAGACATTT  
 TATACCAGCTGATTACTTGGAGTCCACAGAAGAATTTATTCGGAGACGGCACGATGATAAAGAGATGAGA  
 CCTGCTCGAGCCAAATTTGACTTTAAAGCCAGACCCTGAAGGAGCTGCCTCTGCAGAAGGGAGACGTTG  
 TTTACATCTACAGACAGATTGACCAGAACTGGTATGAAGGTGAACACCATGGCCGGTGGGAATCTTCCC  
 ACGCACCTATATCGAGCTTCTTCTCCAGCTGAGAAGGCTCAGCCAGAAAAGTTGGACCCGTCACAAGTT  
 TTGGAATATGGAGAAGCCATTGCGAAGTTTAACTTTAATGGAGATACACAAGTAGAAAATGTCTTTCCGAA  
 AGGGGGAGAGGATCACGCTGCTCCGACAGGTGGATGAGAAGTGGTACGAAGGGAGGATTCTGGGACATC  
 TCGCAAGGCATTTTCCCTATCACCTATGTAGATGTGCTTAAGAGGCCATTGGTGA AAAACCCCTGTGGAT  
 TACATCGACCTGCCTTATTCTTCTTCCCAAGTCGAGTCCCACTGTGAGCCACAGCAACCTCAAGCCC  
 AGCAGCGAAGAGTCACCCAGACAGGAGTCAAGCCCTCACTGGATTTGTGTAGCTACCAAGCGTTATATAG  
 TTATGTGCCACAGAACGATGATGAGTTGGAAGTCCGAGATGGAGATATTGTTGATGTCATGGAAAAATGT  
 GACGATGGATGGTTTGTGGCACTTCGAGAAGGACGAGGCAGTTTGGTACTTTTCCAGGCAACTATGTAA  
 AACCTTTATATCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAAGTCACTCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222349 representing NM\_178362  
 Red=Cloning site Green=Tags(s)

MSSECDVGSSKAVVNGLASGNHGPKDMDPTKICTGKGTVTLRASSSYRGTPSSSPVSPQESPKHESKSD  
 EWKLSSSADTNGNAQPSPLAAKGYRSVHPSLSADKPQGATSSSSAPSEVI VVPL YLVNTDRGQGQEGTAR  
 TPASLGPLGCVHTVPATTPAASPLTFPTLDDFIPPHLQRRPHHSQPASACGSLSPASQTSPPSPPPPLVP  
 PVPEDLHRGLEPDLPGAVSSTGSPLLNEVSSSHIETDSQDFPPTS SRPSSAYPSTTIVNPTIVLLQHNREQ  
 QKRLSSSDPASERRAGEQDPVPTPAELTSPGRASERRAKDASRRVVRSTQDLSDVSTDEVGIPLRNTER  
 SKDWYKTMFKQIHKLNRDTPPENPYFPTYKPELPEILQNSEEDSSYTPTYQFPASTSPKSEDDSDVH  
 SPRYSFSDDTKSPLSVPRSKSEMNIEIEGEKVVKRSATLPLPARSSSLKSSPERNDWEPDPKVDTRKYRA  
 EPKSIYEYQPGKSSVL TNEKMSRDISPEEIDLKNEPWYKFFSELEFGRPPPKIWDYTPGDCSILPREDR  
 KTNLEKDL SFCQAELEADLEKVE TVNKSPSANS PQSSAVSPTPDITSEPPGYIYSSNFHAVKRES DGTGPG  
 GLASLENERQIYKSVLEGGDIPLQGLSGLKRPSSASTKDESEPRHFIPADYLESTEEFIRRRHDDKEMR  
 PARAKFD FKAQTLKELPLQKGDVYIYRQIDQNWYEGEHHGRVGI FPRTYIELLPPAEKAQPRKLAPVQV  
 LEYGEAIAKFNFGDTQVEMSFRRGERITLLRQVDENWYEGRIPGTSRQGI FPIYVDVLRPLVKTPVD  
 YIDL PYSSSPSRSATVSPQPPQAQRRVTPDRSQPSLDLCSYQALYSYVPQNDDELELRDGDIVDMMEK  
 DDGWFVGT SRRTQFGTFPGNYVKPLYL

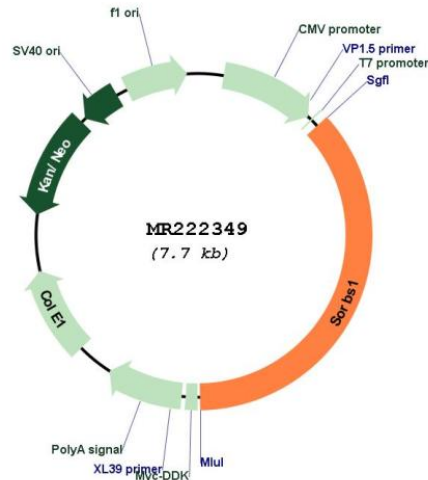
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_178362

**ORF Size:** 2814 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_178362.1](#), [NP\\_848139.1](#)

**RefSeq Size:** 6320 bp

**RefSeq ORF:** 2817 bp

**Locus ID:** 20411

**Cytogenetics:** 19 34.25 cM

**MW:** 104.4 kDa

**Gene Summary:**

Plays a role in tyrosine phosphorylation of CBL by linking CBL to the insulin receptor. Required for insulin-stimulated glucose transport. Involved in formation of actin stress fibers and focal adhesions.[UniProtKB/Swiss-Prot Function]