

## Product datasheet for **RG227275**

### **SORBS2 (NM\_001145671) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SORBS2 (NM_001145671) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SORBS2
Synonyms:	ARGBP2; PRO0618
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG227275 representing NM\_001145671  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGTACGCTAACATCTGTGAAGAGAGTGCAAAGTTCTCCAAACCTATTGGCTGCAGGGCGTGATT  
 CTCAGTACCAGACTCAGCTTGGAGATCTTACAATGATGGCAATCAGGAGACACTGAACGGAGATGCTAC  
 ATATTCCTCTCTTGCAGCAAAAGTTTTAGAAGCGTTCGACCAAACTACAAGATAAAAAGATCACCAACT  
 CAGAGCCAGATAACAGTGAATGAAAAGTCCAGGAGTCCGCTGAGTCCCATGAGTACTATCAGAGGCCGT  
 TTTCCCTCGGCATATTCTCTCCAGCCTCACTCAACTCCAGCATTGTCATGCAGCACGGCACATCCCT  
 CGATTCCACAGACACATATCCCCAGCATGCGCAGTCTCTGGATGGCACCACCAGCAGTCTATCCCCCTG  
 TACCGATCCTCAGAGGAAGAGAAGAGAGTGACAGTCATCAAAGCCCCGATTACCCAGGGATCGGGCCCG  
 TGGATGAATCCGGAATCCCACAGCAATTAGAACGACAGTCGACCGGCCAAGGACTGGTACAAGACGAT  
 GTTTAAGCAAATTCACATGGTGCACAAGCCGGATGATGACACAGACATGTATAACTCCTTATACATAC  
 AATGCAGGTCTGTACAACCCACCCTACAGTGCTCAGTCACACCCTGCTGCAAAGACCCAAACCTACAGAC  
 CTCTTTCCAAAAGCCACTCCGACAACAGCCCCAATGCCTTTAAGGATGCGTCTCCCCAGTGCTCCCCC  
 ACATGTTCCACCTCCAGTCCCGCGCTTCGACCAAGAGATCGGTCTTCAACAGAAAAGCATGACTGGGAT  
 CCTCCAGACAGAAAAGTGGACACAAGAAAATTTCCGGTCTGAGCCAAGGAGATTTTTGAATATGAACCTG  
 GCAAGTCATCAATTTCTCAGCATGAAAGACCACCCCTCTCCCAACAACCTCCGACACCTGTTCCAAGGGA  
 ACCTGGCCGGAAGCCTCTTTCTAGCTCCCGACTCGGAGAAGTCACTGGTAGCCCCCTCCCTCCGCCCCGG  
 AGTGGCCGCCACACCAAGCTCGCGCCCGCCGCTCTGTCTCCACCCGGCCTCCTAAAAAGCCTCTGG  
 ACTATGTTCAAGATCATTCTTCTGGTGTTCATGAGGCCTCCTTGATCAGTCTCTATAGACCTCTATAGAC  
 CCTGGAAGACCCATGAGTTCTGCAAGCATGGCCAGTGACTTCAGGAAGCGGAGGAAGAGCGGAGCCTGCA  
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 CATTTAAGAAAGGAGATACTGTCTACATCCTCAGGAAAATGATCAAAATGGTATGAGGGAGAACCA  
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 AGACCACCTCCGCCAGCCAGCCCGGAGAAATCGGAGAAGCTATAGCCAAATACAACCTTCAACGCAGACA  
 CAAATGTGGAGCTGTCACTGAGAAAGGGAGATAGAGTTATTCTTCTTAAAAGAGTTGATCAAAACTGGTA  
 TGAAGGTAATCCAGGAACCAACAGACAAGGCATCTTCCCTGTTTCTATGTGGAGGTCGTAAGAAG  
 AACACAAAAGGTGCTGAGGACTACCCTGACCCTCCAATACCCACAGCTATTCTAGTGATAGGATTCACA  
 GCTTGAGCTCAAATAAGCCACAGCGTCTGTGTTACTCATGAAAATATTCAGGTGGGGGGGAACCGTT  
 TCAGGCTCTGTAACTATACTCCAGGAATGAAGATGAGCTGGAGCTCAGAGAAAGTATGTCATTGAT  
 GTCATGGAAAAGTGTGATGACGGCTGGTTTGTGGGGACCTCAAGAAGAACCAATTTCTTGGTACTTTCC  
 CCGGAAACTACGTCAAGAGGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227275 representing NM\_001145671  
 Red=Cloning site Green=Tags(s)

```
MSVTLTSVKRVQSSPNLLAAGRDSQSPDSAWRSYNDGNQETLNGDATYSSLAAGFRSVRPNLQDKRSPT
QSQITVNGNSGGAVSPMSYYQRPFSAYSLPASLNSSI VMQHGTSLDSTDYTPQHAQSLDGTSSSIPL
YRSSEEEKRVTVIKAPHYPGIGPVDESGIPTAIRTTVDRPKDWYKTMFKQIHMVHKPDDDDTMYNTPYTY
NAGLYNPPYSAQSHPAAKTQTYRPLSKSHSDNSPNAFKDASSPVPPPHVPPPVPPLRPRDRSSTEKHWD
PPDRKVDTRKFRSEPRISIFEYEPGKSSILQHERPPPLPTTPTVPVPREPGRKPLSSSRLGEVTGSPSPPPR
SGAPTSSRAPALSPTRPPKPLDYVQDHSSGVFNEASLYQSSIDRSLERPMSASMASDFRKRKSEPA
VGPPRGLGDQASRTSPGRVDLPGSSTLTKSFTSSPSSPRAKDRESRYSSTLDMGRSAPRERRG
TPEKEKLPKAVYDFKAQTSKELSFKKGDTVYILRKIDQNWYEGEHHRVGIFFISYVEKLTPEKAQPA
RPPPPAQGEIGEAIKYNFNADTNVELSLRKGDRVILLKRVQNWYEGKIPGTNRQGIFFVSYVEVVKK
NTKGAEDYDPPPIPHSYSSDRIHLSLSSNKQRPVFTHEINIQGGGEPFQALYNYTPRNEDELELRESDVID
VMEKCDDGWFVGTSRRTKFFGTFFGNYVKRL
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145671

**ORF Size:** 2193 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\\_001145671.2](#), [NP\\_001139143.1](#)

**RefSeq Size:** 4718 bp

**RefSeq ORF:** 2196 bp

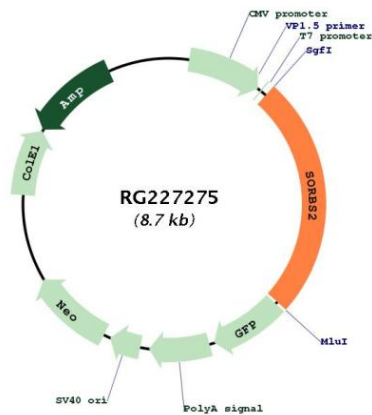
**Locus ID:** 8470

**UniProt ID:** [O94875](#)

**Cytogenetics:** 4q35.1

**Gene Summary:** Arg and c-Abl represent the mammalian members of the Abelson family of non-receptor protein-tyrosine kinases. They interact with the Arg/Abl binding proteins via the SH3 domains present in the carboxy end of the latter group of proteins. This gene encodes the sorbin and SH3 domain containing 2 protein. It has three C-terminal SH3 domains and an N-terminal sorbin homology (SoHo) domain that interacts with lipid raft proteins. The subcellular localization of this protein in epithelial and cardiac muscle cells suggests that it functions as an adapter protein to assemble signaling complexes in stress fibers, and that it is a potential link between Abl family kinases and the actin cytoskeleton. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG227275