

Product datasheet for **RG227308**

SORBS2 (NM_001145674) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SORBS2 (NM_001145674) 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)
ORF Nucleotide Sequence: >RG227308 representing NM_001145674
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGAAAGCAACAACACCTTTGCAGACAGTCGACCGGCCCAAGGACTGGTACAAGACGATGTTTAAGCAAA
TTCACATGGTGCACAAGCCGGTCTGTACAACCCACCCTACAGTGCTCAGTCACACCCTGCTGCAAAGAC
CCAAACCTACAGACCTCTTTCCAAAAGCCACTCCGACAACAGCCCAATGCCTTTAAGGATGCGTCTCC
CCAGTGCCTCCCCACATGTTCCACCTCCAGTCCCGCGCTTCGACCAAGAGATCGGTCTTCAACAGAAA
AGCATGACTGGGATCCTCCAGACAGAAAAGTGGACACAAGAAAATTTTCGGTCTGAGCCAAGGAGTATTTT
TGAATATGAACCTGGCAAGTCATCAATTCTCAGCATGAAAGACCAGCCTCCTTGTATCAGTCTCTATA
GACAGAAGCCTGGAAAGCCCATGAGTTCTGCAAGCATGGCCAGTGACTTCAGGAAGCGGAGGAAGAGCG
AGCCTGCAGTGGGTCCACCACGGGGCTTGGGAGATCAAAGTGCAGCAGGACTAGCCCAGGCCGAGTGGA
CCTCCCAGGATCAAGCACCCTTTACAAGTCTTTCACTAGCTCTTCTCCTTCTCCCCATCAAGAGCA
AAAGGTGGGGATGATAGCAAAATATGTCCATCCCTTTCAGTACTCAGGGCTCAACGGCAACCCCTCCA
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CCCCGCTCGGGCCGGCAGGCTGCCAGTCAACGCCCTGGTGCCATTACATTGAAGTACCAGCGAT



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GAGCAGCCCCGAGCACACGTGGAGTTTTCCGACAGCGACCAGGACGGGGTTGTGTCCGACCACAGTGACT
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 GGCTGGTTGTGGGGACCTCAAGAAGAACCAATCTTTGGTACTTTCCCGGAAACTACGTCAAGAGGC
 TG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227308 representing NM_001145674
 Red=Cloning site Green=Tags(s)

MKATTPQLTVDRPKDWYKTMFKQIHMVHKPGLYNPPYSAQSHPAAKTQTYRPLSKSHSDNSPNAFKDASS
 PVPVPHVPPVPLRPRDRSSTEKHDWPPDRKVDTRKFRSEPRIFIEYEPGKSSILQHERPASLYQSSI
 DRSLERPMSASMASDFRKRKSEPAVGPPRGLDQASARTSPGRVDLPGSSTLTKSFTSSPSSPSRA
 KGGDDSKICPSLCSYGLNGNPSSELDYCYRQHLVDVPRDSPRAISFKNGWQMARQNAEIEWSSTEETVS
 PKIKSRSCDLLNDDCDSFPDPKVKSESMGSLCEEDSKESCPMAWGSYVPEVRSNGRSRIRHRSARNA
 PGFLKMYKMHRIKDLNMFSEVICSVKSRILQYEQHDKLLRAWSQCSTEEVPRDMVPTRISEFEKL
 IQKSKSMPNLGDDMLSPVTLEPPQNGLCPKRRFSIEYLLEENQSGPPARGRRGCQSNALVPIHIEVTSD
 EQPRAHVEFSDSDQDGVVSDHSDYIHLEGSFCSDFDHFSTSESYFGSSHHHHHHHHHHHRLISS
 CKGRCPASYTRFTTMLKHERARHENTEEPRRQEMDPLSKLAFLVSPVFFRRKKNAPKQTEKAKCKAS
 VFEALDSALKDQIKAEKRGSLPDNSILHRLISELLPDVPERNSSLRALRRSPLHQPLHPLPPDGAI
 HCPPYQNDGRMPRSASFQDVTANSSCHHQDRGGALQDRESPRSYSSTLTDMGRSAPRERRGTPEKEKL
 PAKAVYDFKAQTSKELSFKKGDTVYILRKIDQNWYEGEHHGRVGFIPISYVEKLTPEKAQPARPPPAQ
 PGEIGEIAKYNFNADTNVELSLRKGDVILLKRVQDNWYEGKIPGTNRQGFIPVSYVEVVKNTKGAED
 YDPPPIPHSYSSDRIHSLSSNKQRPVFTHENIQGGGEPFQALYNYTPRNEDELELRESVDIVMEKCD
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TRTRPLE - GFP Tag - V

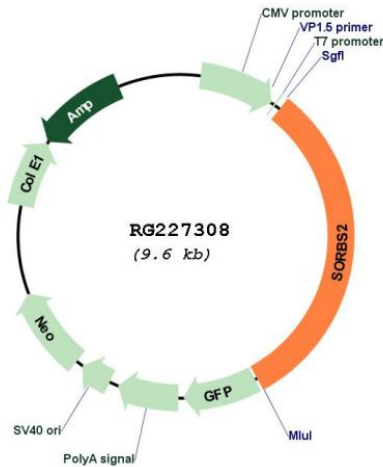
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001145674

ORF Size: 3012 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:	<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_001145674.1</u> , <u>NP_001139146.1</u>
RefSeq Size:	5529 bp
RefSeq ORF:	3015 bp
Locus ID:	8470
UniProt ID:	<u>O94875</u>
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]