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Product datasheet for SC116507

SA1 (STAG1) (NM_005862) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SA1 (STAG1) (NM_005862) Human Untagged Clone
Tag:	Tag Free
Symbol:	SA1
Synonyms:	MRD47; SA1; SCC3A
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC116507 sequence for NM_005862 edited (data generated by NextGen Sequencing)

ATGATTACTTCAGAATTACCAGTGTTACAGGATTCAACTAATGAAACTACTGCCCATTCC
GATGCTGGCAGCGAGCTTGAAGAAACAGAGGTCAAAGGAAAAAGAAAAAGGGGTCGTCCT
GGCCGGCCTCCATCTACAAATAAGAAACCTCGAAAATCTCCAGGTGAGAAGAGCAGAATT
GAAGCTGGAATTAGAGGAGCAGGCCGTGGAAGAGCTAATGGACACCCTCAACAGAATGGG
GAAGGGGAGCCTGTCACATTATTTGAGGTGGTGAAACTGGGGAAAAGTGCAATGCAGTCC
GTGGTGGATGACTGGATTGAATCATATAAACAAGACAGGGACATCGCACTTCTGGATTTA
ATCAACTTTTTTATCCAGTGTTCAGGATGTCGAGGTACTGTGAGAATAGAGATGTTTCGA
AATATGCAGAATGCAGAAATCATCAGAAAAATGACTGAAGAATTTGATGAGGACAGTGGT
GATTATCCTCTTACCATGCCTGGACCTCAGTGGAAAAAATTTCGTTCAAACTTTTGTGAA
TTTATTGGAGTCCTGATTCGACAGTGTCAGTATAGCATAATTTATGATGAGTATATGATG
GACACAGTAATCTCCCTTTTGACGGGTTTGTCAGACTCCCAGGTCAGAGCTTTTAGGCAT
ACAAGTACCCTGGCTGCCATGAAGCTCATGACTGCTCTGGTGAATGTTGCCTTAAACCTC
AGTATTCATCAGGATAATACCCAGAGACAATATGAAGCCGAGAGAAATAAAATGATTGGG
AAGAGAGCCAATGAAAGGTTGGAGTTACTACTTCAGAAACGCAAAGAGCTGCAAGAAAAT
CAGGATGAAATCGAAAATATGATGAACTCTATTTTTAAGGGTATATTTGTTCATAGATAC
CGTGATGCTATTGCTGAGATTAGAGCCATTTGTATTGAAGAAATTGGAGTATGGATGAAA
ATGTATAGTGATGCCTTCCTAAATGACAGTTACCTAAAATATGTTGGCTGGACTCTTCAT
GACAGGCAAGGGGAAGTCAGGCTGAAGTGTTTGAAAGCTCTGCAGAGTCTATATACCAAT
AGAGAATTATTCCCCAAATTGGAACTATTCACTAACCGATTCAAGGATCGCATTGTATCA
ATGACACTTGATAAAGAATATGATGTTGCTGTGGAAGCTATTCGATTGGTTACTCTGATA
CTTCATGGAAGTGAAGAAGCTCTTTCCAATGAAGACTGTGAAAATGTTTACCACTTGGTG
TACTCGGCACATCGCCCTGTTGCTGTGGCAGCTGGAGAGTTCCTTCACAAAAAGCTATTT
AGCAGACATGACCCACAAGCAGAAGAAGCATTAGCAAAGAGGAGGGGAAGAAACAGCCCG
AATGGAAACCTCATTAGGATGCTGGTTCTTTTCTTTCTTGAAAGTGAGTTACATGAACAT
GCAGCCTACTTGGTGGACAGTTTATGGGAGAGCTCTCAAGAACTGTTGAAAGACTGGGAA

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TGTATGACAGAGTTGCTATTAGAAGAACCTGTTCAAGGAGAGGAAGCAATGTCTGATCGT
CAAGAGAGTGCTCTTATAGAGCTAATGGTTTGTACAATTCGTCAAGCTGCTGAGGCACAT
CCTCCAGTGGGAAGGGGTACCGGCAAGAGAGTGCTAACTGCCAAAGAAAGGAAAACTCAA
ATTGATGATAGAAACAAATTGACTGAACATTTTATTATTACACTTCCTATGTTACTGTCA
AAGTATTCTGCAGATGCAGAGAAGGTAGCAAACTTGCTACAAATCCCACAGTATTTTGAT
TTAGAAATCTACAGCACAGGTAGAATGGAAAAGCATCTGGATGCTTTATTAAAACAGATT
AAGTTTGTTGTGGAGAAACACGTAGAATCAGATGTTCTAGAAGCCTGCAGTAAAACCTAT
AGTATCTTATGCAGTGAAGAATATACCATCCAGAACAGAGTTGACATAGCTCGAAGCCAG
CTGATTGATGAGTTTGTAGATCGATTCAATCATTCTGTGGAAGACCTATTGCAAGAGGGA
GAAGAAGCTGATGATGATGACATTTACAATGTTCTTTCTACATTAAAGCGGTTAACTTCT
TTTCACAATGCACATGATCTCACAAAATGGGATCTCTTTGGTAATTGCTACAGATTATTG
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TCCCATTATTCGATTCTTTGGCAGTTGGTGAAAATTACTGATGGCTCTCCTTCCAAAGAG
GATTTGTTGGTATTGAGGAAAACGGTGAAATCCTTTTTGGCTGTTTGCCAGCAGTGCCTG
TCTAATGTTAATACTCCAGTGAAAGAACAGGCTTTCATGTTACTCTGTGATCTTCTGATG
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CCAGATACTGGACTCCAATCTGAACTCCTCAGTTTTGTGATGGATCACGTTTTTATTGAC
CAAGACGAGGAGAACCAGAGCATGGAGGGTGATGAAGAAGATGAAGCTAATAAAATTGAG
GCCTTACATAAAAGAAGGAATCTACTTGCTGCTTTCAGCAAACTTATCATTTATGACATT
GTTGACATGCATGCAGCTGCAGACATCTTCAAACACTACATGAAGTATTACAATGACTAT
GGTGATATTATTAAGGAAACACTGAGTAAAACCAGGCAGATTGATAAAATTCAGTGTGCC
AAGACTCTCATTCTCAGTTTGCAACAGTTATTTAATGAACTTGTTCAAGAGCAAGGTCCC
AACCTAGATAGGACATCTGCCCATGTCAGTGGCATTAAAGAACTGGCACGTCGCTTTGCC
CTTACATTTGGATTGGACCAGATTAAGACACGAGAAGCAGTTGCCACACTTCACAAGGAT
GGCATAGAGTTTGCATTTAAATACCAAAATCAGAAAGGACAAGAGTATCCACCTCCTAAT
CTGGCTTTTCTTGAAGTACTAAGTGAATTTTCTTCTAAACTTCTTCGACAGGACAAAAAG
ACAGTTCATTCATACCTAGAGAAATTCCTTACCGAGCAGATGATGGAAAGGAGGGAGGAT
GTATGGCTTCCACTCATCTCCTATAGAAATTCATTAGTCACTGGGGGTGAAGATGATAGA
ATGTCTGTGAACAGTGGAAGTAGCAGCAGCAAAACCTCATCAGTAAGGAATAAGAAAGGA
CGACCTCCACTTCATAAAAAACGAGTAGAAGATGAGAGTCTGGATAACACATGGCTAAAC
AGGACTGACACCATGATTCAGACTCCTGGCCCCCTGCCAGCACCACAACTCACATCCACT
GTACTGCGGGAGAACAGTCGGCCCATGGGAGACCAGATTCAAGAACCTGAGTCTGAACAT
GGTTCTGAACCAGACTTTTTACACAATCCTCAGATGCAGATCTCTTGGTTAGGCCAGCCG
AAGTTAGAAGACTTAAATCGGAAGGACAGAACAGGAATGAACTACATGAAAGTGAGAACT
GGAGTGAGGCATGCTGTTCGGGGTCTAATGGAGGAAGATGCTGAGCCCATCTTTGAAGAT
GTGATGATGTCATCCCGAAGCCAGTTAGAAGATATGAATGAAGAATTTGAGGACACCATG
GTTATTGATCTGCCTCCATCAAGAAATCGGCGAGAGAGAGCTGAGCTAAGGCCAGACTTC
TTTGACTCTGCAGCTATCATAGAAGATGATTCAGGATTTGGAATGCCTATGTTCTGA

Clone variation with respect to NM_005862.2

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005862 unedited
ATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGGGAAAATGCCACCAG
ATGGCGGGTTAGGATTGCAGCTCCGTTGAAGGCGCGGCCCCCGCTCCCGAACCCCCGGCG
ACCACCCCGTAACAACCCCCCCACATCGGGAATAACACACCGGAGACTTTTGGGGGGAAA
CTAGGTCGATGGTCGGCGGCGCCCGGATGGGCAGCTGAGGATTGCCTTTGAGGTTATTTT
AAAAGTTTTGAGTTGTACAGCACTTGATTATTTTGCTGCATTGTGAAAGGACCTCTCCAG
CAATGATTACTTCAGAATTACCAGTGTTACAGGATTCAACTAATGAAACTACTGCCCATT
CCGATGCTGGCAGCGAGCTTGAAGAAACAGAGGTCAAAGGAAAAAGAAAAAGGGGTCGTC
CTGGCCGGCCTCCATCTACAAATAAGAAACCTCGAAAATCTCCAGGTGAGAAGAGCAGAA
TTGAAGCTGGAATTAGAGGAGCAGGCCGTGGAAGAGCTAATGGACACCCTCAACAGAATG
GGGAAGGGGAGCCTGTCACATTATTTGAGGTGGTGAAACTGGGGAAAAGTGCAATGCAGT
CCGTGGTGGATGACTGGATTGAATCATATAAACAAGACAGGGACATCGCACTTCTGGATT
TAATCAACTTTTTTATCCAGTGTTCAGGATGTCGAGGTACTGTGAGAATAGAGATGTTTC
GAAATATGCAGAATGCAGAAATCATCAGAAAAATGACTGAAGAATTTGATGAGGACAGTG
GTGATTATCCTCTTACCATGCCTGGACCTCAGTGGAAAAAATTTCGTTCAAACTTTTGTG
AATTNNATTGGAGTCCTN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005862 unedited
NNNGGGTTTCGCTATGNNACCGCGGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTT
TTCGTTTTACTGAGAATACTTTATTTGCTGGTAGAAGTTGCTAAAAATGCACAGAACAAA
TACCAATAGAAAATGCACTGTATTTGAATCTCCCTAGTCTATATAAAATGAACGGTGTAC
AGCATCTGTTGGAAAAATGGCTGCATGGACATTTCTTATTTTATGCCCACTTATAAATAA
AAATAAACCTTTTATTCAAGAGTATATAAAATCTGGGAATTCATATCCATATCCACAGAG
GGTGTGTGGTTTTTGGCAGAGATGTACTATGTCAGAATTTCATCTTAGCTTGTCAATGTT
CTGCTCCTTCATTATTTGTGTTCCACAAAGGTCAACCAAATCCAGTGAACTCCAAAACAC
TCTTCGCAATTAGGATGAGCTGCTTACTCATAGGTTTAATAAAAATGGTTAGCTTTTAAA
ACATAAAAAGGCAAAATGTTAAAACGGTTTTTAAATTGTACAACAGGAAAATAAAGTTAA
AAATATGTTTTTTTTTACTCAATGTTGAGTTTTCATAAAACAGGTGTATAACAGTGTTTA
TCTTGACAGCTGTTTTAAAAATTTAAAATTTCTTCCTCCCTCCAGAAAAACCACACATCT
GTATTGGGATAAGTCCAACAGTAGGACACAAATGATTTTCAGGTCAGTCTTTCTGAGTTG
ACATTCACCAACATTTCCCTGGGTAATTTACATGCTCCTCTTCTGTCCCTGCAAAAAGGA
TTGACCCTTATCTTTTGGTTAAAAAACAATTCGATCCCTTCAAAGTGGTTTTTCCCCTAA
CAGCTATCCAGGATATAGGCCTCTAGCTCTAATATAAAG

Restriction Sites: NotI-NotI

ACCN: NM_005862

Insert Size: 4700 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).

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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_005862.2, NP_005853.2
RefSeq Size:	5166 bp
RefSeq ORF:	3777 bp
Locus ID:	10274
UniProt ID:	Q8WVM7
Cytogenetics:	3q22.3
Domains:	STAG
Protein Families:	Druggable Genome
Protein Pathways:	Cell cycle
Gene Summary:	This gene is a member of the SCC3 family and is expressed in the nucleus. It encodes a component of cohesin, a multisubunit protein complex that provides sister chromatid cohesion along the length of a chromosome from DNA replication through prophase and prometaphase, after which it is dissociated in preparation for segregation during anaphase. [provided by RefSeq, Jul 2008]

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