

Product datasheet for RC221017

SA2 (STAG2) (NM_001042751) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SA2 (STAG2) (NM_001042751) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SA2
Synonyms:	bA517O1.1; HPE13; MKMS; NEDXCF; SA-2; SA2; SCC3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221017 representing NM_001042751 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAGCAGCTCCAGAAATACCAACTGATTTTAACTACTACAGGAGTCAGAAACACATTTTTCTTCTG
ACACAGATTTTGAAGATATCGAAGGAAAAACCAAAGCAAGGCAAAGGCAAACCTTGTAAGGAAAGGCAA
AAAGGGCCAGCAGAAAAGGGCAAAGGTGGAAATGGAGGAGGAAAACCTCCTTCTGGTCCAAACCGAATG
AATGGTCATCACCAACAGAATGGAGTGGAAAACATGATGTTGTTGAAGTTGTTAAAATGGCAAGAGTG
CTATGCAGTCGGTGGTAGATGATTGGATAGAATCATAAAGCATGACCGAGATATAGCACTTCTTGACCT
TATCAACTTTTTTATTCAGTGTTGAGGCTGTAAAGGAGTTGTACAGCAGAAATGTTTAGACATATGCAG
AACTCTGAGATAATTCGAAAAATGACTGAAGAATTCGATGAGGATAGTGGAGATTATCCACTTACCATGG
CTGGTCCCTCAGTGAAGAAGTTCAAATCCAGTTTTTGTGAATTCATTGGCGTGTTAGTACGGCAATGTCA
ATATAGTATCATATATGATGAGTATATGATGGATACAGTCATTTCACTTCTTACAGGATTGTCTGACTCA
CAAGTCAGAGCATTTCGACATACAAGCACCTGGCAGCTATGAAGTTGATGACAGCTTGGTGAATGTGG
CACTAAATCTTAGCATTAAATGGATAATACACAAAGACAATATGAAGCAGAACGGAATAAATGATTGG
AAAACGAGCCAATGAGAGGCTAGAATCCTGCTACAAAAGCGGAAAGAGCTTCAGGAAAAATCAAGATGAA
ATAGAAAATATGATGAATGCAATATTTAAAGGAGTGTGTTGACATAGATACCGTGATGCGATAGCTGAAA
TTCGAGCTATTTGCATTGAAGAGATTGGCATTGGATGAAGATGTATAGTATGATGCCTTTCTTAATGACAG
TTATTTAAAATATGTTGGTTGGACTATGCATGATAAGCAAGTGAAGTAAGACTCAAATGTCTTACTGCT
CTACAAGGCTTTATTATAACAAAGAGCTTAATCCAACTGGAATTTTTACCAGTCGGTTCAAGGATA
GAATTGTGCTATGACCTTGACAAAGAATATGATGTTGCAGTACAAGCAATAAATTACTCACTCTTGT
TTTACAGAGTAGTGAAGAAGTTCTCACTGCAGAAGATTGTGAAAATGTCTATCATCTGGTTTATTCAGCT
CACCGGCCAGTAGCAGTAGCAGCTGGAGAATTTCTCTACAAAAGCTCTTCAGTCGTAGAGATCCAGAGG
AGGATGGAATGATGAAAAGAAGAGGAAGACAAGGTCCAAATGCCAACCTTGTTAAGACATGGTTTTTTTT
CTTTCTAGAAAGTGAGTTACATGAGCATGCAGCATACCTTGTGGATAGCATGTGGGACTGTGCTACTGAG



[View online »](#)

CTGCTGAAAGACTGGAATGTATGAATAGCTTGTTACTGGAAGAGCCACTTAGTGGAGAGGAAGCACTAA
CAGATAGGCAAGAGAGTGCTCTGATTGAAATAATGCTTTGTACCATAGACAAGCGGCTGAATGTCATCC
TCCCGTGGGAAGAGGGACAGGAAAAAGGGTGCTTACAGCAAAGGAGAAGAAGACACAGTTGGATGATAGG
ACAAAACTCACTGAGCTTTTTGCCGTGGCCCTTCTCAGTTATTAGCAAAATACTCTGTAGATGCAGAAA
AGGTGACTAACTGTTGCAGTTGCCCTCAGTACTTTGATTGGAAATATATACCACTGGACGATTAGAAAA
GCATTTGGATGCCTTATTGCGACAGATCCGGAATATTGTAGAGAAGCACACAGATACAGATGTTTTGGAA
GCATTTCTAAAACCTACCATGCCTCTGTAATGAAGAGTTCACAATCTTCAACAGAGTAGATATTTCAA
GAAGTCAACTGATAGATGAATTGGCAGATAAATTTAACC GGCTTCTTGAAGATTTCTGCAAGAGGGTGA
AGAACCTGATGAAGATGATGCATATCAGGTATTGTCAACATTGAAGAGGATCACTGCTTTTCATAATGCC
CATGACCTTTCAAAGTGGGATTTATTTGCTTGTAATTACAAACTCTTGAAAACCTGGAATCGAAAAATGGAG
ACATGCCTGAGCAGATTGTTATTCACGCACTGCAGTGTACTCACTATGTAATCCTTTGGCAACTTGCTAA
GATAACTGAAAGCAGCTTACAAAGGAGGACTTGCTGCGTTTAAAGAAACAAATGAGAGTATTTTGTGAG
ATATGTCAACATTACCTGACCAACGTGAATACTACTGTTAAGGAACAGGCCTTCACTATTCTGTGTGATA
TTTTGATGATCTTCAGCCATCAGATTATGTCAGGAGGGCGTGACATGTTAGAGCCATTAGTGTATACCCC
TGATTCTTCATTGCACTGAGTTGCTCAGCTTTATTTTGGATCATGTCTTCATTGAACAGGATGATGAT
AATAATAGTGCAGATGGTCAGCAAGAGGATGAAGCCAGTAAAATTGAAGCTCTGCACAAGAGAAGAAT
TACTTGCAGCATTTTGTAACTAATTGTATATACTGTGGTGGAGATGAATACAGCTGCAGATATCTTCAA
ACAGTATATGAAGTATTATAATGACTATGGAGATATCATCAAAGAAACAATGAGTAAAACAAGGCAGATA
GACAAAATTCAGTGTGCTAAGACCCTTATTCTCAGTCTGCAACAGCTTTTTAATGAAATGATACAAGAAA
ATGGCTATAATTTTATAGATCATCCTCTACATTTAGTGGCATAAAAAGAACTTGCTCGACGTTTTGCTTT
AACTTTTGGACTTGATCAGTTGAAAACAAGAGAAGCCATTGCCATGCTACACAAAGATGGCATAGAATTT
GCTTTTAAAGAGCCTAATCCGCAAGGGGAGAGCCATCCACCTTTAAATTTGGCATTCTTGATATTCTGA
GTGAATTTTCTTCTAACTACTTCGACAAGACAAAAGAACAGTGTATGTTTACTTGGAAAAGTTCATGAC
CTTTCAGATGTCCTCCGAAGAGAGGATGTGTGGCTTCCACTGATGTCTTACCGAAATCTTTGCTAGCT
GGTGGTGTGATGACACCATGTCAGTCATTAGTGAATCAGCAGCCGGGGTCAACAGTACGGAGTAAAA
AATCAAAACCATCTACAGGAAAACGAAAAGTGGTTGAGGGCATGCAGCTTCACTCACTGAAGAAAAGTAG
TAGTAGTGACAGTATGTGGTTAAGCAGAGAACAACACTGCACACCCCTGTTATGATGCAGACACCACAA
CTCACCTCCACTATTATGAGAGAGCCAAAAGATTACGGCCTGAGGATAGCTTTCATGAGTGTATCCAA
TGCAGACTGAACATCATCAACACCTCTTGATTATAATCGGCGTGGCACAAGCCTAATGGAAGATGATGA
AGAGCCAATTGTGAAGATGTTATGATGCCTCAGAAGGGAGGATTGAGGATCTTAAATGAGGGAATGGAT
TTTGACACCATGGATATAGATTTGCCACCATCAAAGAACAGACGAGAGAGAACAAGAACTGAAGCCTGATT
TCTTTGATCCAGCTTCAATTATGGATGAATCAGTCTTGGAGTGTCAATGTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221017 representing NM_001042751
 Red=Cloning site Green=Tags(s)

MIAAPEIPTDFNLLQESETHFSSDTDFEDIEGKNQKQGKGTCKKGKGPAAEKGGNGGGKPPSGPNRM
 NGHHQNGVENMMLFEVVKMGKSAMQSVVDDWIESYKHDRDIALLDLINFFIQCSGCKGVVTAEMFRHMQ
 NSEIIRKMTTEEFDEDSGDYPLTMAGPQWKFKSSFCEFIGVLVRQCQYSIIYDEYMMDTVISLLTGLSDS
 QVRAFRTSTLAAMKLMALVNVALNLSINMDNTQRQYEAERNKMIKQRANERLELLLQKRKELQENQDE
 IENMMNAIFKGVFVHRYRDAIAEIRAICIEEIGIWMKMYSDAFLNDSYLKYVVGWMTMHDKQGEVRLKCLTA
 LQGLYNNKELNSKLELFTSRFKDRIVSMTLDKEYDVAVQAIKLLTLVLQSSEEVLTAECCENVYHLVYSA
 HRPVAVAAAGEFLYKFLSRRDPEEDGMMKRRRQGPANLVKTLVFFLESELHEHAAYLVDSMWDCAE
 LLKDWECMNSLLLEEPLSGEEALTDRQESALIEIMLCTIRQAAECHPPVGRGTGKRVLTAKKTKQLDDR
 TKITELFAVALPQLLAKYSVDAEKVTNLLQLPQYFDLEIYTTGRLEKHLDALLRQIRNIVEKHTDTDVLE
 ACSKTYHALCNEEFTIFNRVDIRSQLIDELADKFNRLLEDFLQEGEEDDDAYQVLSTLKRTAFHNA
 HDLSKDWLFCNYKLLKGTIENGDMPEQIVIHALQCTHYVILWQLAKITESSTKEDLLRLKQMRVFCQ
 ICQHLYTNVNTTVKEQAFILCDILMIFSHQIMSGGRDMLVYTPDSSLQSELLSFILDHVFIEQDDD
 NNSADGQEQEASKIEALHKRRNLLAAFCKLIVYTVVEMNTAADIFKQYMKYYNDYGDIIKETMSKTRQI
 DKIQCAKTLILSLQQLFNEMIQENGYNFDRSSSTFSGIKELARRFALTFGLDQLKTREAIAMLHKDGI
 AFKEPNPQGESHPPLNLAFLDILSEFSSKLLRQDKRTVYVYLEKFMFQMSLRREDVWLPLMSYRNSLLA
 GGDDDTMSVISGISSRGSTVRSKSKPSTGKRKVVVEGMQLSLTESSSDSMWLSREQLHTPVMQTPQ
 LTSTIMREPKRLRPEDSFMSVYPMQTEHHQTPLDYNNRRGTSLMEDDEEPIVEDVMMSSSEGRIEDLNEGMD
 FDTMDIDLPPSKNRRRETELKPDFDPASIMDESVLGVSFMF

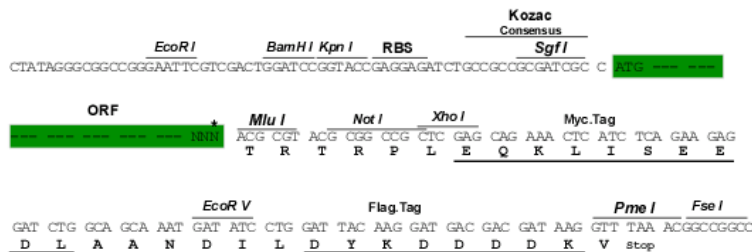
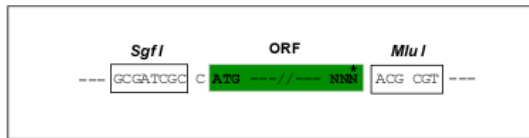
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



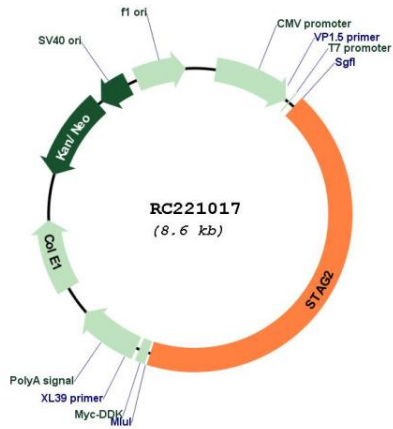
* The last codon before the Stop codon of the ORF

ACCN: NM_001042751

ORF Size: 3693 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:	NM_001042751.2
RefSeq Size:	6075 bp
RefSeq ORF:	3696 bp
Locus ID:	10735
UniProt ID:	Q8N3U4
Cytogenetics:	Xq25
Protein Pathways:	Cell cycle
MW:	141.3 kDa
Gene Summary:	The protein encoded by this gene is a subunit of the cohesin complex, which regulates the separation of sister chromatids during cell division. Targeted inactivation of this gene results in chromatid cohesion defects and aneuploidy, suggesting that genetic disruption of cohesin is a cause of aneuploidy in human cancer. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]

Product images:



Circular map for RC221017