

Product datasheet for **MC224009**

Stag2 (NM_001077712) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stag2 (NM_001077712) Mouse Untagged Clone
Tag: Tag Free
Symbol: Stag2
Synonyms: 9230105L23Rik; B230112I07Rik; SA-2; SAP2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-Myc-DDK (PS100007)
E. coli Selection: Ampicillin (100 ug/mL)
Fully Sequenced ORF: >MC224009 representing NM_001077712
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATAGCAGCTCCAGAAATACCAACTGATTTTAACTACTGCAGGAGTCAGAGACACACTTTTCTTCTG
ACACAGATTTTGAAGACATTGAAGGAAAAATCAGAAGCAAGGCAAGGCAAACTTGTAAAAAGGCAA
AAAGGGTCCAGCAGAAAAGGGTAAAAGTGGAAATGGAGGAGGAAAACCTCCTTCTGGCTCAAACCGAATG
AACGGTCATCATCAACAGAATGGAGTTGAAAACATGATGTTGTTCAAGTTGTTAAAATGGCAAGAGTG
CTATGCAGTCGGTGGTAGATGACTGGATCGAGTCTACAAGCATGACCGGACATAGCGCTTCTTGACCT
TATCAATTTCTTTATTCAGTGCTCAGGCTGCAAAGGAGTCGTACAGCAGAGATGTTAGACATATGCAG
AACTCTGAGATAATTCGAAAAATGACAGAAGAATTTGACGAGGATAGTGGGGATTACCCACTTACCATGG
CTGGTCTCAGTGAAGAAGTTCAAGTCCAGCTTCTGTGAGTTTATTGGTGTGTTAGTACGGCAGTGTC
ATACAGTATCATATATGATGAGTACATGATGGATACTGTCAATTTCACTTCTTACTGGATTGTCTGACTCC
CAAGTCAGAGCATTTCGACATACAAGCACCTGGCAGCTATGAAGTTGATGACTGCTTTGGTAAATGTGG
CACTAAATCTTAGCATTAAATGGATAACACACAAGACAGTACGAGGCAGAACGGAATAAAATGATTGG
AAAACGAGCTAACGAAAGGCTAGAATCCTGTTACAAAAGCGTAAAGAGCTTCAGGAAAAACAAGATGAG
ATAGAAAATATGATGAATGCAATATTTAAAGAGTGTGTTGTACATAGTACAGGGATGCAATAGCTGAAA
TCAGACTATATGCATTGAAGAGATTGGCATTGGATGAAGATGTATAGTGATGCCTTCCTTAATGACAG
CTATTTAAAATATGTTGGTTGGACTATGCATGATAAGCAAGGTGAAGTCAGACTCAAATGTCTTACTGCT
TTACAAGGGCTTTACTATAACAAAGAACTTAATCCAACTGGAATCTTTACCAGTCGATTCAAGGATA
GAATTGTGCTATGACCTTGACAAAGAATATGATGTTGCAGTACAAGCAATAAAGTTACTCACTCTTGT
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CACCGGCCAGTAGCAGTTGCAGCTGGAGAATTTCTCTACAAAAGCTCTTCAGCCGAGAGACCCAGAAG
AGGATGGGCTGATGAAAAGAAGGGGAAGGCAAGGCCCAATGCCAACCTTGTGAAGACTTTGGTGTGTTT
CTTTTTGAAAAGTGAGTTACACGAGCATGCAGTTACCTTGTGGACAGCATGTGGGATTGTCTACTGAG



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CTCTGAAAGACTGGAATGTATGAATAGCTTGTATTAGAAGAGCCTCTTAGTGGAGAGGAAGCTCTAA
 CAGACAGACAAGAGAGTGCTTTGATTGAAATAATGCTTTGTAATACTATTAGACAAGCAGCTGAATGTCATCC
 TCCCGTGGGAAGAGGGACAGGAAAAAGGGTGCTGACAGCAAAGGAGAAGAAGACACAGTTGGATGACAGA
 ACAAGAATCACTGAGCTGTTTGTGTGGCCCTCCGCAGTTATTAGCTAAATACTCTGTAGATGCAGAAA
 AGGTGACCAATTTGTTGCAGTTACCTCAGTACTTTGATTTGGAGATATACACCACTGGACGATTAGAAAA
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 CATGATCTTTCAAAGTGGGATTTGTTGCTTGTAAATTACAAAACCTTGA AAAACCGGAATCGAAAATGGAG
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 ATATGTCAGCATTACTTGACCAACGTGAATACTACTGTTAAAGAACAGGCCTTCACTATTCTGTGTGACA
 TTTTGATGATCTTCAGTCACCAGATTATGTCTGGAGGGCGTGACATGTTAGAGCCATTAGTTTACTCC
 TGATTCTTCATTGCACTGAGTTGCTCAGCTTTATTTGGATCATGTCTTCATTGAACAGGATGATGAT
 AGTAATAGTGCAGATGGTCAGCAAGAGGATGAAGCCAGCAAAAATTGAAGCTTTCACAAGAGGAGAATT
 TACTTGCAGCATTTTGTAAAGTAATTGTATATACCGTGGTGGAGATGAACACAGCTGCAGATATCTTCAA
 GCAGTATATGAAGTATTATAATGATTATGGCGATATCATCAAAGAAACAATGAGTAAAACAAGGCAGATT
 GACAAAATTCAGTGTGCTAAGACCCCTATTCTCAGTTTGCAGCAGCTTTTTAATGAGATGATACAAGAGA
 ATGGCTATAATTTTGATAGATCATCCTCAACATTTAGTGGCATAAAAAGAACTTGCCTGGCGTTTTGCTTT
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 GCTTTTAAAGGAGCCTAATCCACAAGGGGAGAGCCATCCACCTTAAACTTGGCATTCTTGATATTCTCA
 GTGAATTTCTTCTAAAACCTGCTCCGACAGGATAAAAAGAACAGTGTATGTTTATTTGGAAAAGTTCATGAC
 CTTTCAGATGTCACCTCCGAAGAGAAGATGTATGGCTTCCCTCTGATGTCTTACCGAAATCTTTGCTAGCT
 GGTGGTGTGATGATACTATGTCAGTCATTAGTGAATGAGCAGTCGGGGATCAACTGTACGGAGTAAAA
 AATCAAAAACCATCTACAGGAAAGCGAAAAGTGGTTGAAGGCATGCAACTAGCACTCCCTGAAGAAAGCAG
 TAGCAGTGACAGTATGTGGTTGAGCAGAGAGCAAACTGCACACCCCTGTGATGATGCAGACACCACAG
 CTCACCTCCACTATTATGAGAGAACCGAAAAGGTTACGGCCTGAAGATAGCTTTCATGAGTGTCTATCCGA
 TGCAGGCAGAACACCATCAAACGCCTCTGGATTATAATCGGCGTGGTACAAGCCTAATGGAAGATGATGA
 AGAGCCAATTGTTGAAGATGTTATGATGTCCTCAGAAGGAAGGATTGAGGATCTTAAAGAGGAATGGAC
 TTTGACACCATGGATATAGACTTGCACCATCAAAGAATAGAAGAGAGAGAACAGAACTGAAGCCCGATT
 TCTTTGATCCAGCTTCAATTATGGATGAATCAGTCTTGGGGTGTCAATGTTT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2705_h03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001077712

Insert Size: 3696 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001077712.2](#), [NP_001071180.1](#)

RefSeq Size: 5977 bp

RefSeq ORF: 3696 bp

Locus ID: 20843

UniProt ID: [O35638](#)

Cytogenetics: X A4

Gene Summary: Component of cohesin complex, a complex required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis (By similarity).[UniProtKB/Swiss-Prot Function]