

Product datasheet for MC224029

Stag3 (NM_016964) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Stag3 (NM_016964) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Stag3
 Synonyms: SA-2
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC224029 representing NM_016964
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCTACTCTGTGGTCACCTTCTACCCAGCACCATGGCTTTCCTCAGGCAGTGAGTCTTCCCCACTTC
 AAAAGTCTGTGAGACGTGCACAGATGGCCTTGCTCCTTGTTCCTCCTCCATCCTACCCTGTGATGACAG
 AGACTCACAGGGAAGTGCAGAGTGGGATAGTCCCTCAACTAACGAAGACAGCGACTTTGAAGACAGCTTA
 AGACGAAATGTGAAGAAGAGAGCAGCAAAGCAACCACCCAAAGCTGTTCCAGCAGCAAAACATCGGAAGA
 AGCAGTCCCGAATAGTATCTAGTGGGAATGGCAAGAATGAATCAGTGCCATCAACCAATACCTTTTTGA
 TGCTGTGAAAGCTGCTAGAAGTTCATGCAAGTCTTTGGTGGATGAGTGGCTAGATAACTACAAGCAAGAT
 GAAATGCAGGATTCTTGGAGCTCATTAAATTTTTTCATCCGAGCCTGTGGATGTAAGCAAGCAAGTCTG
 CTGAGATGTTCAAGACAATGTCCAATTCAGAGATCATCCAACACCTAACGGAAGAGTTTAAATGAGGACTC
 GGGGACTATCCCTGACAGCTCCAGGTCCTCCTGGAAGAAGTCCAGGGAAGCTTCTGTGAGTTGTG
 AAGACATTGGTCTATCAGTGCCAGTACAGTCTCCTCTATGATGGCTTTCCTATGGATGACCTTATCTCCC
 TGCTCATTGGCCTCTCAGATTCCCAGTCCGAGCCTTTCGTACTAGTACCCTGGCTGCCATGAAGCT
 AATGACTTCTCTGGTAAAAGTTGCACTCCAGTTGAGTCTGCACAAGACAACAATCAACGTCAGTATGAG
 GCTGAACGAAACAAGGGGCCAGAGCAGAGACACCGGAACGACTGGAGAGTCTGCTGGAGAACGAAAAG
 AGTTCCAAGAGAAATCAAGAGGACATAGAGGGGATGATGAATGCCATCTTCAGAGGTGCTTTGTCCATCG
 GTACAGGGACATCCTTCTGAGATCCGCGCTATCTGCATTGAGGAGATTGGGTATTGGATGCAAAGCTAC
 AGCACCTCCTTTCTAATGACAGCTACCTAAAATACATCGGCTGGACCCTGCATGATAAGCACAAGGAAG
 TTCGCTGAAGTGTGTGAAGGCTCTGGCAGGGCTGTACAGCAACCAGGAGCTGAGCTTACGGATGGAGCT
 CTTTACAAATCGCTTCAAGGACCGGATGGTTCCATGGTCATGGACAGAGAGTGTGAAGTACAGTGGAG
 GCCATCAGATTGCTGACCCTTATTCTGAAGAACATGGAGGGAGTCTGACTAGTGCAGACTGTGAGAAAA
 TTTACTCCATTGTATACATTTCTAATCGTGCTATGGCCTTCTGCAGGGGAATTTGTGTATTGGAAGAT
 CTTCATCCTGAATGTGGGGCAAAGCAGTGAGTGATAGAGAGCGACCCGGAGTCCACAAGCCCAGAAG
 ACTTTCATTTATCTTTACTGGCCTTCTTTATGGAGAGTGAGCATCACAACCATGCTGCTTACTTAGTAG



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ACAGCTTGTGGGACTGTGCGGGTCTTACCTGAAGGACTGGGAGAGTCTGACAACTGTTGCTGCAGAA
 AGACCAGAATCTGGGTGATATGCAAGAGAGAATGCTGATAGAAATCCTTGTGTCTAGTGCCCGGCAAGCT
 GCAGAGGGTCACCCTCCAGTGGGCGCATCACTGGAAAGAAGAGTCTGACGGCCAAAGAACGCAAGCTTC
 AAGCCTATGATAAGATGAAGCTGGCTGAGCACCTATCCCCCTTTGCCCCAGCTCCTTGCCAAGTTCTC
 AGCAGATGCAGAGAATGTTGCTCCCTTGTCCAGCTGCTCAGTTACTTTGACCTCAGCATATATTGCACT
 CAGCGCTTGAAAAGCACTTGGAGCTGCTTCTGCAACAACCTCCAGGAGGTGGTGGTGAAGCATGTAGAGC
 CTGAGGTGCTTGAGGCAGCAGCCATGCCCTCTATCTGCTCTGCAAACCCAGAGTTCACCTTCTTCAGCAG
 AGTGGACTTTGCCAGAAGCCAATTAGTAGATTTTCTGACTGATAGATTCCAGCAGGAGCTTGATGACCTA
 ATGCAGTCATCCTTCTAGATGAGGATGAGGTATACAGCCTGACAGCCACCCTGAAGCGTCTCTGCTCT
 TTTACAATGCTCATGACCTGACCCGATGGGAGATCTCTGAACCATGTTCTCGACTCCTCCGGAAGGCTGT
 AGACACAGGAGAAGTTCTCACCAGGTGATTTTGCAGCCTTGACTCTGGTATATTTTTCCATTCTCTGG
 ACAGTAACCCACATTTCCAGAGTCTACTTCTCATAAGCAGCTGATGAGTCTGAAGAAAAGAATGGTAGCCT
 TCTGTGAGCTTTGCCAAGCTGCCTCTCAGACGTGGACCCAGAGATCCAGGAGCAGGCTTTTGTCTTATT
 AAGTGACCTGCTTCTCATCTTCAGCCCTCAGATGATTGTAGGGGGACGGGATTTCTTAGGCCTCTGTG
 TTTTTCCGGAAGCTACTCTCCAGTCGGAACCTAGCCAGCTTCTCATGGACCATGCTTTTCTCCAGCCTG
 GAGAACTGGGCAACGGTCAGTCACAGGAGGATCAGTCCAGATAGAACTTCTGCACCAGAGGCGCCGCT
 GCTTGCAGGATTTGTAAGCTGCTGCTTTATGGGGTATTGGAGCTGGATGCAGCCTCAGACGTTTTCAAA
 CACTACAACAAGTTCTATGAAGACTATGGTGACATTATCAAGGAAACATTAACCTCGAGCAAGACAAATTG
 ACAGATGTCAGTGCTCTCGGATCCTGCTCCTGAGCCTAAAGCAGCTCTACACAGAAGTATACAGGAGCA
 GGGCCCCCAGGGCCTGACAGAAGTCCAGCCTTATTGAGATGAGAGACTTGGCTCGGAGGTTTGCCTTG
 AGCTTTGGACCCAGCAGCTCCATAACCCAGATCTTGTGGTATGCTGCACAAGGAAGGCATCAAGTTCT
 CATTGTCTGAGCTTCTCCTGCTGGTTCTTCTCATGAGCCCCAAATCTGCATTCTGGAGCTTCTTTC
 AGAGTTCTCCCTCGCCTTCCATCAGGACAAGCGGCTACTACTATCCTACCTGGAAAAGTGTCTGCAG
 CGTGTCTCCAAGGCACCTAACCATCCCTGGGGTCCAGTACCACCTACTGCCACTCCCTTACCCTCTAG
 AGATCACAGCAGAGGCCAGCCCTCGTGGACCCCCACTCCAAGAAGAGGTGTGTTGAAGGCCCTGCAG
 GCCTCAGGAAGAAGAGTCTCATCCAGGAAGAAAGCCTTTCAGCTGAACAGTGGCCCCACAACCCCTACC
 CTCACCTCCACCCAGTGAAGAGGAAGCAGTCTCTGAGGACAGTGGGCAAGAAGCAAAAAGGTAGACCAG
 GACCAGGACCAGGACCAGGACCAGAGCTGATCTGCAGTCAGCAACTTTAGGCACCCAGAGGTTGAAGAT
 GTCGAGTGCACCATGTTCCAGATTCGATGTGATCCTTCAGGCTCTGGCTTGGGCAAGCAGCTGACCCGA
 CTCAGCCTTATGGAAGAAGATGAGGAAGAAGAGCTAAGACTTCTGGATGAAGAATGGCAACCTGGAGACA
 AGATGCTTCATAGCCCTTCTTCTCCAGTGAAGCATGGGTTGGACCTATTAGATACAACAGAGCTGAACAT
 GGAGGATTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_016964

Insert Size:

3723 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).

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_016964.2](#), [NP_058660.2](#)

RefSeq Size: 4246 bp

RefSeq ORF: 3723 bp

Locus ID: 50878

UniProt ID: [O70576](#)

Cytogenetics: 5 77.01 cM

Gene Summary: Meiosis specific component of cohesin complex. The cohesin complex is 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 meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I.[UniProtKB/Swiss-Prot Function]