

Product datasheet for MC224081

Stag1 (NM_009282) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stag1 (NM_009282) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Stag1
Synonyms:	AU045003; SA-1; Scc3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224081 representing NM_009282 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTACTTCAGAGTTACCAAGTGTACAGGATCAACTAATGAACTACTGCCACTCTGATGCTGGCA
GCGAACTTGAAGAAACAGAGGTCAAAGGAAAAAGAAAAGGGTCTGTCCTGGCCGGCCTCCATCAACAAA
TAAGAACTCGAAAATCTCCAGGAGAAAAGAGCAGAATTGAAGCTGGAATTCGAGGAGCAGGTCTGGA
AGAGCCAATGGGCACCCCAACAGAACGGCAGCGGGATCCTGTCACCTATTTGAGGTGGTGAAGCTGG
GGAAGAGTGCAATGCAGTCCGTGGTGGATGACTGGATTGAATTATATAACAAGACAGGGACATCGCACT
TCTGGATTAATCAACTTTTTATCCAGTGTTCAGGATGTCGAGGTACGGTCAGAATAGAGATGTTTCGA
AATATGCAGAACGCAGAAATAATCAGAAAAATGACTGAAGAATTTGATGAGGACAGTGGTACTACCCCC
TTACAATGCCTGGTCTCAGTGGAAAAATTTCTGTTCCAATTTTTGTGAATTTATGGAGTCTGATTCG
ACAGTGTCAATATAGCATAATTTATGATGAATATATGATGGACACCGTAATTTCCCTTTTACTGGTTT
TCAGACTCCCAAGTCAGAGCTTTTAGGCATACAAGTACCTTGTGCAATGAAGCTGATGACTGCTCTGG
TGAATGTTGCTTTAACTCAGTATTCATCAAGATAATACACAGAGGCAATATGAAGCTGAGAGAAAATA
AATGATTGGGAAGAGAGCCAATGAAAGACTGGAGTTACTACTTCAGAAACGTAAGAGCTACAAGAAA
CAAGATGAAATTGAAAATATGATGAATCTATCTTTAAGGGTATATTTGTTTCATCGATACCGTATGCAA
TTGCTGAAATTCGAGCCATCTGTATTGAAGAAATTGGAGTGTGGATGAAAATGTATAGCGATGCCTTCT
AAATGACAGTTACTTGAATATGTAGGATGGACTCTTACGATAGGCAAGGGGAAGTCAAGTGAAGTGT
TTGAAAGCTCTACAAAGCCTGTATACCAATAGAGAATTATCCCAAATTTGGAGCTATTTACAAATCGAT
TCAAGGATCGCATTGTATCAATGACTCTTGACAAAGAATATGATGTTGCTGTGGAAGCAATCCGATTGGT
TACTCTGATCCTTCATGGCAGTGAAGAAGCTCTTCCAACGAAGACTGTGAAAATGTTTACCATTGGTG
TATTCAGCACATCGCCCTGTTGCTGTGGCAGCTGGAGAGTTTCTACAAAAAGCTGTTCCAGCAGACATG
ACCCACAAGCAGAGGAAGCGTTAGCGAAGAGGAGGAAGGAACAGTCCAACGGGAACCTCATTAGGAT
GCTTGTCTTTTCTTCTGGAAAGTGAATTACATGAACATGCAGCCTACTTGGTGGACAGCTTGTGGAG



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AGCTCTCAAGAACTGTTGAAAGACTGGGAATGTATGACAGAGTTACTATTAGAAGAACCTGTTCAAGGAG
 AAGAAGCAATGTCTGACCGTCAAGAGAGTGCTCTTATAGAGCTAATGGTCTGTACAATTCGTGAGGCAGC
 TGAGGCACATCCTCCAGTGGGAAGGGTACTGGCAAGAGAGTGCTAACAGCCAAAGAAAGGAAAACCTCAA
 ATTGATGATAGGAACAAATTAACGAACATTTTATCATTACACTTCTATGTTACTATCAAAGTATTCTG
 CAGATGCTGAGAAGGTAGCAAACCTGCTGCAAATTCACAGTATTTTGATCTAGAAATCTACAGCACAGG
 TCGGATGGAAAAGCACCTGGATGCTTTATTAACAAATTAAGTTTGTGTAGAGAAACATGTAGAATCA
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 GCAAGAGGGTGAAGAAGCTGACGATGATGATATCTACAATGTTCTTTCCACCTTAAAGCGTTTAACTTCT
 TTTCAATGCTCATGATCTCACTAAATGGGATCTATTTGGTAATTGCTACAGACTATTGAAGACTGGAA
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 GGTGTTTAAATCCAGATACTGGACTCCAGTCTGAACTCCTCAGTTTGTGATGGATCATGTTTTCATTGAC
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 AAAGGAGGAACCTGCTTGTGCCTTCAGCAAACCTTATCATTATGATATTGTTGACATGCACGCAGCTGC
 AGACATCTTTAAACACTACATGAAGTATCAATGACTATGGTGAATTATTAAGGAAACACTGAGTAAG
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 TTGTTCAAGAACAAGGTCTAATCTGGATAGGACATCTGCCACGTGAGTGGGATTAAGAACTGGCAGC
 TCGTTTTGCCCTTACATTTGGATTGGACCAGATCAAGACCCGAGAAGCTGTTGCCACACTTACAAGGAT
 GGAATAGAGTTTGCTTTAAATACCAGAATCAGAAAGGACAAGAATACCCACCCCTAATCTGGCTTTTC
 TAGAAGTACTAAGTGAATTTCTTAACTCCTTCGACAGGACAAGAAACTGTTCAATTCGTATCTTGA
 AAAATTCCTCACCGAGCAGATGATGAAAGGAGGAGGATGTGTGGCTTCCACTCATCTCGTATAGAAAC
 TCATTAGTCACTGGAGGTGAAGATGACAGGATGTCTGTGAACAGTGAAGTAGCAGCAGTAAAACGTCCT
 CAGTAAGGAGTAAGAAAGGAAGACCCCCACTGCACAGAAAACGAGTAGAAGATGAAAGTCTGGATAACAC
 ATGGCTAAATAGGACTGACACGATGATTCAGACTCCTGGACCCTTGCCAACCCACAGCTCACCTCCAGC
 GTACTTAGAGAAAACAGCCGTCCCATGGGAGAGCAGATTCAGGAACCTGAGTCTGAGCATGGCTCTGAAC
 CAGACTTTTTACATAATCCCGATGCAGATCTTTGGTAGGCCAGCCGAAGTTAGAAGACTTGAATCG
 GAAGGACAGAACAGGGATGAACTACATGAAAGTAAGAGCTGGAGTCCGGCAGCCGTTCCGGGTCTAATG
 GAGGAAGATGCTGAGCCATCTTTGAAGATGTGATGATGTCATCACGGAGCCAGTTAGAAGACATGAATG
 AAGAATTTGAAGACACCATGGTTATTGATTTGCCCCATCAAGAAATCGCCGAGAGAGAGCTGAGCTAAG
 GCCAGACTTCTTTGACTCTGCAGCTATCATAGAAGATGATTCAGGATTTGGAATGCCTATGTTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2617_a02.zip
 Restriction Sites: SgfI-MluI
 ACCN: NM_009282
 Insert Size: 3777 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_009282.3](#), [NP_033308.2](#)

RefSeq Size: 6010 bp

RefSeq ORF: 3777 bp

Locus ID: 20842

UniProt ID: [Q9D3E6](#)

Cytogenetics: 9 E3.3- E4

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]

Transcript Variant: This variant (1) encodes the longest isoform (1).