

Product datasheet for MR220127

Stag3 (NM_016964) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stag3 (NM_016964) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stag3
Synonyms:	SA-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220127 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTACTCTGTGGTCACCTTCTACCCAGCACCATGGCTCTTCTCAGGCAGTGAGTCTTCCCCACTTC
AAAAGTCTGTGAGACGTGCACAGATGGCCTTGTCTCCTTGTCTCCTCCATCCTACCCTGTGATGACAG
AGACTCACAGGGAAGTGCAGAGTGGGATAGTCCCTCAACTAACGAAGACAGCGACTTTGAAGACAGCTTA
AGACGAAATGTGAAGAAGAGAGCAGCAAAGCAACCACCCAAAGCTGTTCCAGCAGCAAACATCGGAAGA
AGCAGTCCCGAATAGTATCTAGTGGGAATGGCAAGAATGAATCAGTGCCATCAACCAATTACCTTTTTGA
TGCTGTGAAAGCTGCTAGAAGTTGCATGCAGTCTTTGGTGGATGAGTGGCTAGATAACTACAAGCAAGAT
GAAATGCAGGATTCTTGAGGCTCATTAAATTTTTTCATCCGAGCCTGTGGATGTAAAAGCACTGTGACTC
CTGAGATGTTCAAGACAATGTCCAATTCAGAGATCATCCAACACCTAACGGAAGAGTTTAAATGAGGACTC
GGGGGACTATCCCTGACAGCTCCAGGTCCTCCTGGAAGAAGTCCAGGGAAGCTTCTGTGAGTTGTG
AAGACATTGGTCTATCAGTGCCAGTACAGTCTCCTCTATGATGGCTTTCCTATGGATGACCTTATCTCCC
TGCTCATTGGCCTCTCAGATTCCAGGTCGAGCCTTTCGTCATACTAGTACCCTGGCTGCCATGAAGCT
AATGACTTCTCTGGTAAAAGTTGCACTCCAGTTGAGTCTGCACAAAGACAACAATCAACGTCAGTATGAG
GCTGAACGAAACAAGGGCCAGAGCAGAGAGCACCAGGAGCTGGAGAGTCTGCTGGAAACGAAAAG
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GTACAGGGACATCCTTCTGAGATCCGCGCTATCTGCATTGAGGAGATTGGGTATTGGATGCAAAGCTAC
AGCACCTCCTTTCTTAATGACAGCTACCTAAAATACATCGGCTGGACCCTGCATGATAAGCACAAGGAAG
TTCGCCTGAAGTGTGTAAGGCTCTGGCAGGGCTGTACAGCAACCAGGAGCTGAGCTTACGGATGGAGCT
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ACTTTCATTTATCTTTTACTGGCCTTCTTTATGGAGAGTGAGCATCACAACCATGCTGCTTACTTAGTAG
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GGAGGATTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220127 protein sequence
 Red=Cloning site Green=Tags(s)

MPTLWSPSTQHHGSSSGSESSPLQKSVRRAQMALSPCSSSILPCDDRDSQGTAEWDSPSTNEDSDFEDSL
 RRNVKRAAKQPPKAVPAAKHRKKQSRIVSSGNGKNEVPSTNYLFDVKAARSCMQSLVDEWLDNYKQD
 ENAGFLELINFFIRACGCKSTVTPPEMFKTMSNSEIIQHLTEEFNEDSGDYPLTAPGPSWKKFQGSFCEFV
 KTLVYQCQYSLLYDGFPMDDLISLLIGLSDSQVRAFRTSTLAAMKLMSTLVKVALQLSLHKDNNQRQYE
 AERNKGPEQRAPERLESLEKRKEFQENQEDIEGMMNAIFRGVVFVHRYRDILPEIRAICIEEIGYWMQSY
 STSFLNDSYLKYIGWTLHDKHKEVRLKCVKALAGLYSNQELSLRMEFTNRFKDRMVMVMDRECEVAVE
 AIRLLTLILKNMEGVLTSADCEKIYSIVYISNRAMASSAGEFVYWKIFHPECGAKAVSDRERRRSPQAQK
 TFIYLLLAFFMESEHHNHAAYLVDSLWDCAGSYLKDWESLTNLLLQKDQNLGDMQERMLIEILVSSARQA
 AEGHPPVGRITGKKSLETAKERLQAYDKMKLAEHLIPLLPQLLAKFSADAENVAPLLQLLSYFDLSIYCT
 QRLEKHLELLLQQLQEVVVKHVEPEVLEAAAHALYLLCKPEFTFFSRVDFARSQLVDFLTDRFQQLDDL
 MQSSFLDEDEVYSLTATLKRLSAFYNAHDLTRWEI SEPCSRLLRKAVDTGEVPHQVILPALTLVYFSILW
 TVTHISESTSHKQLMSLKKRMVAFCELCQSCLSVDVPEIQEQAFVLLSDLLLIFSPQMIVGGRDFLRPLV
 FFPEATLQSELASFLMDHVFLQPGELGNGQSQEDHVQIELLHQRRRLLAGFCKLLLYGVLELDAASDVFK
 HYNKFYEDYGDIIKETLTRARQIDRCQCSRILLLSLKQLYTEL IQEQPGQLTELPAFIEMRDLARRFAL
 SFGPQQLHNRDLVMLHKEGKIFSLSELPPAGSSHEPPNLAFLLELSEFSPRLFHQDKRLLL SYLEKCLQ
 RVSKAPNHPWGPVTTYCHSLHPLEITAEASPRGPPHKKRCVVEGPCRPQEEESSSQEESLQLNSGPTTPT
 LTSTAVKRKQSLRTVGGKQKGRPGPGPGPELICSQQLGTQRLKMSSAPCFQIRCDPSGSGLGKQLTR
 LSLMEDEEEEELRLLDEEWQRGDKMLHSPSSPSEHGLDLLDTTELNMEDF

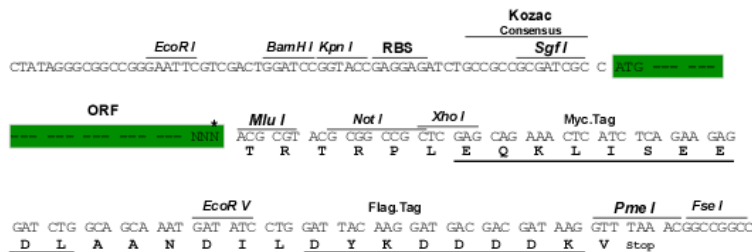
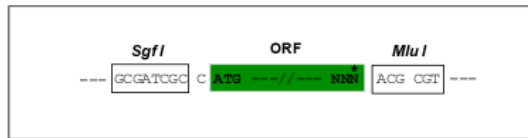
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

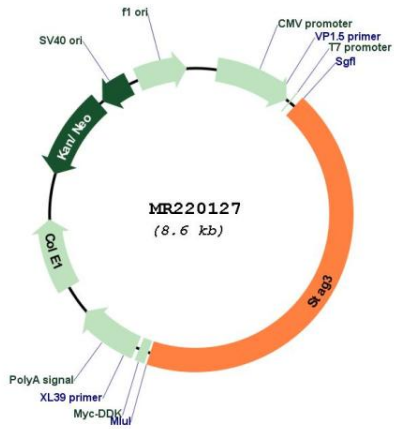
NM_016964

ORF Size:

3723 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_016964.2 , NP_058660.2
RefSeq Size:	4246 bp
RefSeq ORF:	3723 bp
Locus ID:	50878
UniProt ID:	O70576
Cytogenetics:	5 77.01 cM
MW:	141.2 kDa
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]

Product images:



Circular map for MR220127