

## Product datasheet for **RR211064**

### Stag3 (NM\_053730) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stag3 (NM_053730) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stag3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211064 representing NM_053730 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTACTCTGTGGTCACCCTCCACCCAGCACCATGGCTCTTCCTCAGGCAGTATGTCCTCCCCTCTTC  
GAAAGTCTGTGAGATGTGCACAGATGGCCTTGTCTCCTTGTCTTCCAACATCCAACCTGTGATGACAG  
AGACTCCCAGGGAAGTGCAGAATGGGATAGTTCTCAACTAGTGAAGACAGTGACTTTGAAGATAGCTTA  
AGAAGAAATGTGAGGAAGAGAGCAGCAAAACGACCACCCAAAGCTATCCCAGTGGCAAAACATCCGAAGA  
AGCAGTCCCACATAGTACCTGGTGGGAATGACAAGAACAAGTCAGTGCCGCCAACCAAGTACCTTTTTGA  
TGCTGTGAAAGCTGCTAGAAGTTGTGCGCAGTCTTTGGTAGATGAGTGGCTAGAAAACATAAGCAAGAT  
GAAAATGCAGGATTCTTGAAGCTGTTAATTTTTTCATCCGAGCCTGTGGATGTAAAAGCACTGTACAC  
CCGAGATGTTCAAGACAATGTCCAACCTCAGAGATCATCCAGCACCTAACAGAAGATTTAATGAGGACTC  
AGGTGACTATCCCCTGACAGCTCCAGGTCCATCCTGGAAGAAGTCCAGGGAAGCTTCTGTGAGTTTGTG  
AAGACACTAGTCTGTGAGTCCAGTACAGCCTCCTCTTTGACGGCTTTCCAATGGATGACCTTATCTCCC  
TGCTCATTGGCCTCTCAGATTCCAGGTCCGAGCCTTTGTCATACTAGTACTTTGGCTGCCATGAAGCT  
AATGACTTCTCTGGTAAAAGTTGCACTCCAGTTGAGTCTGCACAAAGACAACAATCAACGTGAGTATGAG  
GCAGAACGAAACAAGGGCCAGAGCAGAGGGCACCAGAGCGGCTCGAGAGTCTGCTGGAGAAACGAAAAG  
AGTTCCAAGAGAATCAAGAGGAGATAGAGGGGATGATGAATGCCATCTTCAGGGGTGTCTTTGTTTCATCG  
GTACAGGGACATCCTTCTGAGATCCGTGCTGTGCAATCGAGGAGATCGGGTGTGGATGCAAAGCTAC  
AGCACCTCCTTTCTTAATGACAGCTACCTAAAATATATTGGCTGGACCCTGCATGACAAGCACAAGGAAG  
TCCGCCTAAAGTGTGTAAGGCTCTGGCAGGGCTGTACAGCAACCAGGAGCTGAGTTCACGGATGGAGCT  
CTTTACTAATCGCTTCAAGGACCGATGGTTCCATGGTCATGGACAGAGAGAGTGAAGTACAGTGGAG  
GCCATCAGATTGCTGACCCTTATTCTGAAGAACATGGAGGGAGTACTGACTAGTGCAGATGTGAGAAAA  
TTTACTCCATTGTATACATTTCTAATCGTGCCATGGCCTCTTCTGACGGGAATTTGTGTACTGGAAGAT  
TTTCCATCCTGAATGTGGGGCAAAGCAGTGAAGTGGCAGGGAGCGACGCCGGAGTCCACAAGCCCAGAGG  
ACTTTTACCTTTTATTGGCCTTCTTTATGGAGAGTGAAGTACACGACCATGCTGCTTACCTAGTTG  
ACAGCTTGTGGGACTGTGCAGGGTCTTACCTGAAGGACTGGGAGAGTCTGACAAGTCTGTTGCTGCAGAA  
AGACCAGAATCTGGGTGATATGCAAGAGAGAATGTTGATAGAAATCCTGGTGTCCAGTGCCCGGCAAGCT



[View online »](#)

GCAGAGGGTCACCCACCACTGGGGCGCATCACTGGAAAGAAGAGTCTGACCGCCAAAGAACGCAAGCTTC  
AAGCTTATGATAAGGTGAAGCTGGCTGAGCACCTCATCCCCCTCTTGCCCGAGCTCCTTGCCAAGTTCTC  
AGCAGATGCAGAGAACGTTGCTCCCTTGCTCCGGCTGCTCAGTTACTTTGACCTCAACATTTATTGCACT  
CAGCGCTTGGAGAAGCACTTGGAGCTGCTTCTGCAACAACCTCCAGGAGGTGGTGGTGAAGCACGTAGAGC  
CTGAGGTGCTTGGAGCTGCAGCACATGCCCTCTATTTGCTCTGCAAGCCAGAGTTCACCTTCTTCAGCAG  
AGTGGACTTCGCCAGAAGCCAATTAGTAGATCTGCTGACTGATAGATTCCAGCAGGAGCTTGACGACCTA  
ATGCAGTCATCCTTCTAGATGAGGATGAGGTATACAGTCTGACAGCCACTCTGAAGCGTCTCTCTGCCT  
TTTACAATGCTCATGACCTGACTCGCTGGGAGATCTCTGAACCATGTTCTCGACTCCTCCGGAAGGCTGT  
AGACACAGGAGAAGTTCCTCACCAGGTGATTTTGGCAGCCTTGACTCTGGTATATTTTTCCATTCTCTGG  
ACAGTGACCCACATTTACAGAGTCTACTTCCAAAAGCAGCTGATGAGTCTGAAGAAAAGAATGGTAGCCT  
TCTGTGAACCTTTGCCAAAGCTGCCTCTCAGACGTGGACCCAGAGATCCAGGAGCAGGCTTTTGTATT  
AAGTGACCTGCTTCTCATCTTCAGCCCCAGATGGTTGTAGGGGGCCGGGATTTCTTAGGCCTCTTGTC  
TTTTTCCGGAAGCTACTCTCCAGTCGGAAGTCCAGCCTTCTCATGGACCATGCTTTCTCCAGCCTG  
GAGAATTTGGCAACGGTCAATCACAGGAGGATCACGTCCAAATAGAGCTTCTGCACCAGAGGCGCCGCT  
GCTTGCAGGATTTTGAAGCTGTTGCTTTATGGGGTATTGGAACGGATGCGGCCTCAGATGTTTTCAA  
CACTACAACAAGTTCTATGAAGATTATGGTGACATTATCAAGGAAACATTAACCTCGGCGAGACAATTG  
ACCGATGTCAGTCTCTCGGATCCTGCTCCTGAGCCTAAAGCAGCTCTACACAGAACTGATACAGGAGCA  
GGGGCCCCAGGACCTGACAGAACTGCCAGCCTTATTGAGATGAGAGACCTGGCCCGAGGTTTGCCTTG  
AGCTTTGGACCCAGCAGCTCCATAACAGAGATCTTGTGGTCA TGCTGCACAAGGAAGGCATCAAGTTCT  
CATTGTCTGAGCTTCTCCTGCTGGCTCTTCTCGAGAGCCCCAAATATTGCATTCTGGAGCTTCTTTC  
AGAGTTCTCCCCCGCTCTTCCATCAGGACAAACAGCTACTACTATCATACCTGGAAAAGTGTCTGCAG  
CGTGTCTCCATGGCACCTAGCCATCCCTGGGGTCCAGTACCACCTACTGCCACTCCCTCCATCTAGTAG  
AGAACACAGCAGAGGCCAGCTCTCAGGGGCCCCCACTCCAAGAAGAGGTGATTGAAGTTCCCGCAG  
GCTTCAGGAAGAAGAGTCTTCCATCCAGGAGAAAGCCTTCAGCTGAACAGTGGCCCCACAACACCTACA  
CTCACCTCCACAGCAGTGAAGAGAAGGCAGTCTCCGAGGACAGTAGGCAAGAGGCAAAAAGTGGACCAG  
GACCAGGACCAGGACCAGGACCAGGACCAGGACCAGGACCAGGACCAGGACCAGGACCAGGACCAGGACC  
AGAGCTGATCTGCAGTCAGCAGCTCTCAGGACCCAGAGGTTGAAAATGTCGAGTGCACCGTGTTCAG  
ATTCGATGTGATCCTTCTGGCTCTGGCTTGGGCAAGCAGATGACCCGACTCAGCCTTATGGAAGAAGATG  
AGGAAGAAGAGCTGAGACTTCTGGATGAAGAATGGCAATGTGGAGACAAGCTACTTCATAGCCCTCTTC  
TCCCAGTGAGCATGGGCTGGACCTATTAGATAACAACAGAGCTGAACATGGAGATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211064 representing NM\_053730  
 Red=Cloning site Green=Tags(s)

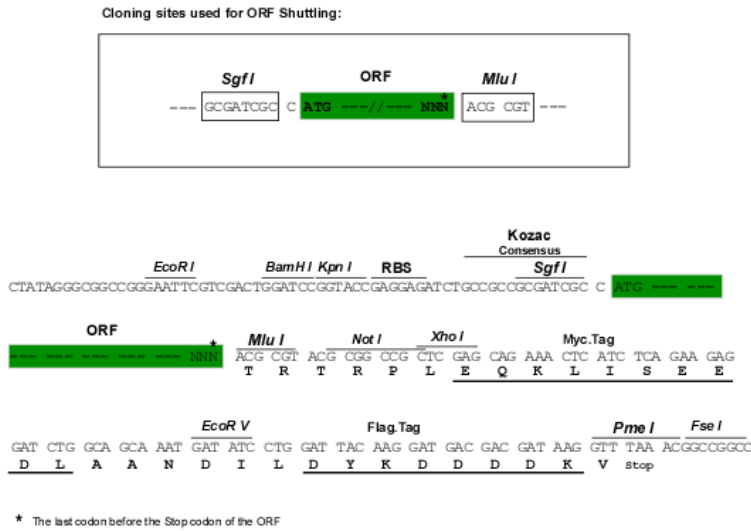
MPTLWSPSTQHHGSSSGSMSSPLRKSVRCAQMALSPCSSNIQPCDDRDSQGTAEWDSSTSEDSDFEDSL  
 RRNVKRAAKRPPKAIPVAKHPKKQSHIVPGGNDKNKSVPTSDLFVAVKAARSCAQLVDEWLENYKQD  
 ENAGFLELVNFFIRACGCKSTVTPPEMFKTMSNSEIIQHLTEEFNEDSGDYPLTAPGPSWKKFQGSFCEFV  
 KTLVCQCQYSLFLDFGFPMDLISLLIGLSDSQVRAFRTSTLAAMKLMSTLVKVALQLSLHKDNNQRQYE  
 AERNKGPEQRAPERLESLEKRKEFQENQEEIEGMMNAIFRGVHVHRYRDILPEIRAVCIEEIGCWMQSY  
 STSFLNDSYLKYIGWTLHDKHKEVRLKCVKALAGLYSNQELSSRMELFTNRFKDRMVMVMDRESEVAVE  
 AIRLLTLILKNMEGVLTSADCEKIYSIVYISNRAMASSAGEFVYWKIFHPECGAKAVSGRERRRSPQAQR  
 TFIYLLLAFFMESEHHDHAAAYLVDSLWDCAGSYLKDWESLTSLLLQKDQNLGDMQERMLIEILVSSARQA  
 AEGHPPVGRITGKKSLETAKERLQAYDKVKLAEHLIPLLPQLLAKFSADAENVAPLLRLLSYFDLNIYCT  
 QRLEKHELELLQLQEVVVKHVEPEVLEAAAHALYLLCKPEFTFFSRVDFARSQVLDLLTDRFQQLDDL  
 MQSSFLDEDEVYSLTATLKRLSAFYNAHDLTRWEISEPCSRLLRKAVDTGEVPHQVILPALTLVYFSLW  
 TVTHISESTSQQLMSLKKRMVAFCELCQSCLSVDVPEIQEQAFVLLSDLLLIFSPQMVVGGDRFLRPLV  
 FFPEATLQSELASFLMDHVFLQPGELGNGQSQEDHVQIELLHQRRRLLAGFCKLLLYGVLELDAASDVFK  
 HYNKFYEDYGDIIKETLTRARQIDRCQCSRILLLSLKQLYTELIQEQGPQDLTELPAFIEMRDLARRFAL  
 SFGPQQLHNRDLVVMHKEGKIFSLSELPPAGSSREPPNIAFLELLSEFSPRLFHQDKQLLSYLEKCLQ  
 RVSMAPSHPWGPVTTYCHSLHLVENTAEASSQGPPhSKKRCIEVPRRLQEEESSSQGESLQLNSGPTTPT  
 LTSTAVKRRQSPRTVGRKQKGGPGPGPGPGPGPGPGPELICSQQLSGTQRLKMSSAPCFQ  
 IRCDPSGSLGKQMLRSLMEDEEEELRLLDEEWQCGDKLLHSPSSPSEHGLDLLDTTELNMEDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

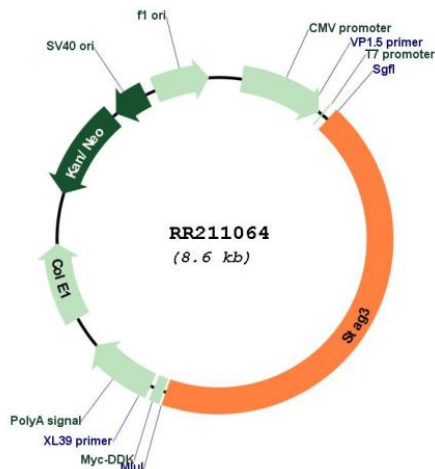
Restriction Sites:

SgfI-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_053730

ORF Size: 3768 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:

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\\_053730.1](#), [NP\\_446182.1](#)

RefSeq Size: 4181 bp

RefSeq ORF: 3771 bp

Locus ID: 114522

UniProt ID: [Q99M76](#)

**Cytogenetics:** 12q11  
**MW:** 142 kDa  
**Gene Summary:** testis-specific protein which associates with the synaptonemal complex [RGD, Feb 2006]