

## Product datasheet for **RC240057**

### STAG3 (NM\_001282717) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	STAG3 (NM_001282717) Human 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:	>RC240057 representing NM_001282717 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTCCCGTTGCAAAGAGCTGTGGGAGATACCAAGAGGGCCTTGTCTGCATCTTCTAGTTCCTCTG  
CCAGTCTACCCCTTGGATGACAGGGACTCAAACCATACCTCAGAGGGGAATGGCGACTCTTGTAGCTGA  
TGAAGACTGACTTTGAAGACAGCTTGAATCGCAATGTGAAGAAGAGAGCAGCAAAACGACCACCGAAA  
ACAAACCCGGTGGCAAAACATCCAAGAAAGGGTCCCGAGTGGTACATCGTCATAGCCGAAACAGTCAG  
AGCCACCAGCCAATGATCTTTTCAATGCTGTGAAAGCCGCCAAAAGTGACATGCAGTCTTTGGTAGATGA  
GTGGCTGGATAGCTACAAGCAAGACCAGGATGCAGGATTTCTGGAGCTTGTAACTTTTTTCATCCAATCT  
TGCGGATGTAAAGGCATTGTGACCCCTGAGATGTTCAAGAAGATGTCCAACCTCAGAGATCATCCAGCACC  
TAACAGAGCAGTTAATGAGGACTCGGGGGACTACCCTCATAGCTCCAGGTCCATCCTGGAAGAAGTT  
CCAGGGCAGCTTCTGTGAATTTGTGAGGACATTGGTCTGTGAGTCCAGTACAGCCTCCTCATGATGCC  
TTCCCTATGGACGACCTCATCTCCCTGCTCACTGGCCTCTCAGACTCACAAGTCCGCGCCTTCCGTCACA  
CTAGCACCTGGCTGCTATGAACTGATGACCTCCCTGGTAAAAGTTGCCCTCCAACCTGAGTGTGCACCA  
AGATAACAATCAGCGTCAGTATGAGGCTGAAAGAAACAAGGGGCCAGGGCAGAGGGCACCTGAGCGGCTG  
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ACTCTGCATGATAAGCACCGAGAAGTCCGCTGAAGTGTGTGAAGGCCCTGAAAGGGCTGTACGGTAACC  
GGGACCTGACCACAGCCTGGAGCTCTTACCAGCCGCTTCAAGGACCGGATGGTTTCCATGGTCATGGA  
CAGAGAGTATGATGTGGCAGTGGAGGCTGTGAGTACTGATACTTATCCTTAAGAACATGGAAGGGGTG  
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CAGGCGAATTTCTGACTGGAACTCTTCTACCTGAGTGCAGATAAGAATGATGGGTGGAAGAGAGCA  
ACGCCAGAGCCCAGGCGCCAGAGGACTTTCTTCCAGTCTGTGCTCTTCTTTGTGGAGAGCGAGCTC  
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GTCTGACAAGCCTGCTGCTGGAGAAGGACCAGAACCTGGGTGATGTGCAGGAGAGCACACTGATAGAAAT  
CCTTGTGTCCAGTGCCCGCAAGCTTCAAGAGGGCACCCGCTGTGGGCCGGTCACTGGGAGGAAGGGC



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TTAACCTCTAAGGAGCGCAAGACCAAGCCGATGACAGGGTGAAGTTGACTGAGCACCTCATCCCCCTGC  
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GCAGCTGAACAGCATCCCGCCACGCCACCCTCACCTCCACAGCTGTGAAGAGCAGGCAGCCCTGTGG  
GGGTTGAAAGAGATGGAGGAAGAAGATGGCTCAGAGTTGGATTTTGGCCAGGGCAGTCAGCCCGTCGCAG  
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GGGCAACCAGCTGATGCGACTCAGCCTTATGGAAGAGGACGAGGAAGAAGAGTTAGAAAATCCAGGATGAG  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC240057 representing NM\_001282717  
 Red=Cloning site Green=Tags(s)

MSSPLQRAVGDTKRALSASSSSASLPFDDDRSNHTSEGNDSLLADEDTDFEDSLNRNVKKRAAKRPPK  
 TTPVAKHPKKGSRVVHRHSRKQSEPPANDLFNAVKAASDMQSLVDEWLDSYKQDQDAGFLELVNFFIQS  
 CGCKGIVTPEMFKKMSNSEIIQHLETFNEDSGDYPLIAPGPSWKKFQGSFCEFVRTLVCQCQYSLLYDG  
 FPMDDLISLLTGLSDSQVRAFRTSTLAAMKLMSTLVKVALQLSVHQDNNQRQYEARNKGPGRAPERL  
 ESLLKRRKELQEHQEEIEGMMNALFRGVFVHRYRDVLPETRAICIEEIGCWMQSYSTSFLLTDSYLKYIGW  
 TLHDKHREVRLKCVKALKGLYGNRDLTTRLELFTSRFKDRMVMVMMDREYDVAVEAVRLLILILKNMEGV  
 LTDADCEVYYPVYASHRGLASAAGEFLYWKLFYPECEIRMMGGREQRQSPGAQRTFFQLLL SFFVESEL  
 HDHAAYLVDSLWDCAGARLKDWEGLTSLLEKQNLGDVQESTLIEILVSSARQASEGHPVGRVTGRKG  
 LTSKERKTQADDRVKLTEHLIPLLPQLLAKFSADA EKVTPLQLLSCFDLHIYCTGRLEKHELEFLQQLQ  
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 ATLKRLSAFYNTHDLTRWELYEPCCQLLQKAVDTGEVPHQVILPALTLVYFSILWTLTHISKSDASQKQL  
 SSLRDRMVAFCELCQSCLSVDVTEIQEQAFVLLSDLLLIFSPQMI VGGDFLRPLVFFPEATLQSELASF  
 LMDHVF IQPDLGSGDSQEDHLQIERLHQRRLLAGFCCKLLLYGVLEMDAASDVFKHYNKFYNDYGDIIK  
 ETLTRARQIDRSHCSRILLLSLKQLYTELLQEHGPQGLNELPAFIEMRDLARRFALSFQPQLQNRDLVY  
 MLHKEGIQFSLSELPPAGSSNQPPNLAFLLELSEFSPRLFHQDKQLLSYLEKCLQHVSAQHPWPVPT  
 TYCHSLSPVENTAETSPQVL PSSKRRRVEGPAKPNREDVSSSQEESLQLNSIPPTPTLTSTAVKSRQPLW  
 GLKEMEEEDGSELDFAQGSQPVAGTERSRLGPQYFQTPHNPSGPGGLGNQLMRLSLMEDEEEEEEIQDE  
 SNEERQDTMQASSYSSTSERGLDLLDSTELDIEDF

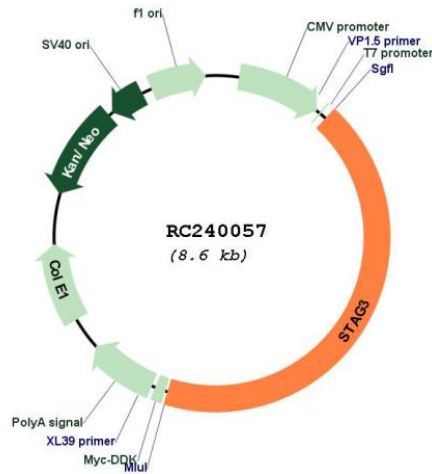
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001282717

**ORF Size:** 3678 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\\_001282717.2](#)

**RefSeq Size:** 4397 bp

**RefSeq ORF:** 3681 bp

**Locus ID:** 10734

**UniProt ID:** [Q9UJ98](#)

**Cytogenetics:** 7q22.1

**Protein Pathways:** Oocyte meiosis

**MW:** 139.6 kDa

**Gene Summary:** The protein encoded by this gene is expressed in the nucleus and is a subunit of the cohesin complex which regulates the cohesion of sister chromatids during cell division. A mutation in this gene is associated with premature ovarian failure. Alternate splicing results in multiple transcript variants encoding distinct isoforms. This gene has multiple pseudogenes. [provided by RefSeq, Apr 2014]