

Product datasheet for **RG240016**

STAG3 (NM_001282718) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STAG3 (NM_001282718) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STAG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240016 representing NM_001282718. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTTCCCCGTTGCAAAGAGCTGTGGGAGATACCAAGAGGGCCTTGTCTGCATCTTCTAGTTCCTCT
GCCAGTCTACCCTTTGATGACAGGGACTCAAACCATACCTCAGAGGGGAATGGCGACTCTTTGTTAGCT
GATGAAGACACTGACTTTGAAGACAGCTTGAATCGCAATGTGAAGAAGAGAGCAGCAAACGACCACCG
AAAACAACACCCGGTGGCAAAACATCCAAGAAAGGGTCCCAGTGGTACATCGTCATAGCCGAAACAG
TCAGAGCCACCAGCCAATGATCTTTTCAATGCTGTGAAAGCCGCCAAAAGTGACATGCAGGACTCGGGG
GACTACCCTCATAGCTCCAGGTCCATCTGGAAGAAGTTCAGGGCAGCTTCTGTGAATTTGTGAGG
ACATTGGTCTGTCAAGTCCAGTACAGCCTCCTCTATGATGGCTTCCCTATGGACGACCTCATCTCCCTG
CTCACTGGCCTCTCAGACTCACAAGTCCGCGCCTTCCGTCACTAGCACCTGGCTGCTATGAAACTG
ATGACCTCCCTGGTAAAAGTTGCCCTCCAAGTGTGACCAAGATAACAATCAGCGTCAGTATGAG
GCTGAAAGAAACAAGGGGCCAGGGCAGAGGGCACCTGAGCGGCTGGAGAGCCTGTTGGAGAAACGCAAA
GAGCTCCAAGAGCATCAAGAGGAGATTGAGGGGATGATGAATGCCCTTTCAGGGGTGCTTTGTTTCAT
CGGTACAGGGATGTCCTTCTGAGATCCGTGCTATCTGCATTGAGGAAATGGGTGTTGGATGCAAAGC
TACAGCACGTCTTCTCACCGACAGCTATTTAAAATATATTGGTTGGACTCTGCATGATAAGCACCGA
GAAGTCCGCTGAAGTGTGTGAAGGCCGTGAAAGGGCTGTACGGTAACCGGGACCTGACCACACGCTG
GAGCTCTTACCAGCCGCTTCAAGGACCGATGGTTTCCATGGTATGGACAGAGAGTATGATGTGGCA
GTGGAGGCTGTCAGATTACTGATACTTATCCTTAAAGAACATGGAAGGGGTGCTGACGGACCGGATTGT
GAGAGCGTCTACCAGTTGTGTATGCCTCTCATCGAGGCCTGGCCTTGCCGACGGCAATTTCTGTAC
TGGAAACTCTTCTACCCTGAGTGCAGATAAGAATGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGGC
GCCAGAGGACTTTCTCCAGCTTCTGCTGTCTTCTTTGTGGAGAGCGAGCTCCATGACCACGCTGCT
TACTTAGTAGACAGTCTGTGGGACTGTGCAGGGGCTCGGCTGAAGGACTGGGAGGGTCTGACAAGCCTG
CTGCTGGAGAAGGACCAGAACCTGGGTGATGTGCAGGAGAGCACACTGATAGAAATCCTTGTGTCCAGT
GCCCGCAAGCTTCAGAGGGGCACCCGCTGTGGGCCGGTCACTGGGAGGAAGGGCTTAACTCTAAG
GAGCGCAAGACCCAAGCCGATGACAGGGTGAAGTTGACTGAGCACCTCATCCCCCTGCTGCCACGCTC
CTGGCCAAGTTCTCAGCTGATGCAGAGAAGGTCACTCCCCGCTCCAGCTTCTCAGCTGCTTTGACCTC
```



[View online »](#)

CACATCTACTGCACTGGGCGCTTGGAGAAGCACCTGGAGCTGTTCTGCAGCAACTCCAGGAGGTGGTG
 GTGAAGCATGCAGAGCCAGCGGTGCTTGGAGCTGGGGCGCATGCCCTCTACCTGCTCTGTAATCCCGAA
 TTCACCTTCTTACGCCGGGCGGACTTTGCCCGCAGCCAGCTAGTAGATTTGCTGACTGACCGCTTCCAG
 CAGGAGCTTGAAGAGCTGTTACAGTCGTCCTTCTAGATGAGGATGAGGTATAAATCTGGCAGCCACT
 CTGAAACGCCTCTCTGCCTTCTACAACACTCATGACCTGACTCGCTGGGAGCTCTATGAGCCATGTTGC
 CAACTCTGCAGAAGGCTGTGGACACAGGAGAGGTTCTCACCAGTTATCTGCCAGCCTTGACTCTT
 CTATTTTTCCATTCTCTGGACACTAACCCACATTTCTAAATCAGATGCTTCCCAGAAGCAGCTGTCG
 AGTTTGAGGGACAGAATGGTGGCTTCTGTGAACCTGCCAGAGTTGCCCTCAGATGTGGATACTGAG
 ATCCAGGAGCAGGCTTTTGTCTTATTAAGTGATCTACTTCTCATCTTTAGCCCTCAGATGATTGTTGGG
 GGCCGTGATTTTCTTAGGCCACTTGTCTTTTTCTGAAGCTACTCTCCAGTCTGAGCTAGCCAGCTTC
 CTCATGGACCACGTCTTCCATCCAGCCGGGAGACCTGGGCAGTGGTATTCCAGGAGGATCATTTACAG
 ATAGAGCGGTACACCAGCGCGCCGCTCTAGCCGGTTCTGCAAGCTGTTGCTTTATGGGGTGTCTG
 GAGATGGATGCAGCCTCAGATGTTTTCAAACACTACAACAAGTTCTACAATGACTATGGTGACATTATC
 AAGGAAACATTAAGTAGAGCAAGGCAGATTGACCGAAGTCATTGTTCCCGAATCCTGCTGCTGAGCCTC
 AAGCAGCTGTACACAGAAGTCTGCAGGAGCATGGGCCAGGGCCTGAATGAGCTTCTGCCTTATC
 GAGATGAGGGACCTGGCCCGGAGTTTGCCTTGTGTTTTGGACCCAGCAGCTGCAGAACCGTGACCTC
 GTGGTCATGCTACACAAGGAAGGCATCCAGTTCTCCTTGTCTGAGCTTCTCCAGCTGGCTCCTCAAT
 CAGCCTCCAAATCTGGCATTCTGGAGCTCCTTTCAGAGTTTTCCCGGACTCTTCCATCAGGACAAG
 CAGCTTTTACTGTCTATCTAGAAAAGTGCCTGCAGCATGTCTCCAGGCACCTGGCCATCCCTGGGGC
 CCAGTCACCACCTACTGCCACTCCCTCAGCCCTGTGGAGAACACAGCAGAGACCAGCCCTCAGGTCTC
 CCCAGCTCCAAGAGGAGGCGCGTTGAAGGGCTGCCAAGCCTAACAGAGAGGACGTCTCCTCGTCCCAG
 GAAGAAAGTCTGCAGCTGAACAGCATCCCGCCACGCCACCCTCACCTCCACAGCTGTGAAGAGCAGG
 CAGCCCTGTGGGGTTGAAAGAGATGGAGGAAGAAGATGGCTCAGAGTTGGATTTTCCAGGGTCTCAG
 CCGTTCGACGGCACCGAGAGGTCAGGTTCTTGGGTCCACAATATTTCCAGACTCCACACACACCTTCA
 GGTCTGGCCTGGCAACCAGCTGATGCGACTCAGCCTTATGGAAGAGGACGAGGAAGAAGATTAGAA
 ATCCAGGATGAGTCAAATGAAGAACGGCAGGATACAGACATGCAAGCAAGTAGCTACTCTCCACCAGT
 GAGCGGGGCTGGACCTTAGATTCTACAGAGCTGGATATTGAGGATTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG240016
 Blue=ORF Red=Cloning site Green=Tag(s)

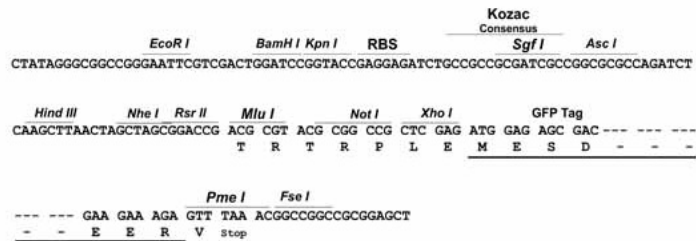
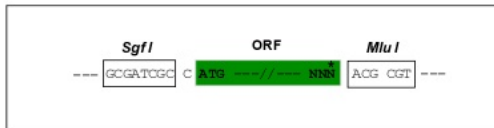
MSSPLQRAVGDTKRALSASSSSASLPFDDRDSNHTSEGNGDSLLEDEDTDFEDSLNRNVKKRAAKRPP
 KTTVPVAKHPKGSRVVHRHSRQSEPPANDL FNAVKAASDMQDSGDYPLIAPGPSWKKFQGSFCEFVR
 TLVCQCQYSLLYDGFPMDDLISLLTGLSDSQVRAFRHTSTLAAMKLM TSLVKVALQLSVHQDNNQRQYE
 AERNKGPQQRAPERLESLLKREKELQEHQEEIEGMMNALFRGVFVHRYRDVLP EIRAICIEEIGCWMQS
 YSTSFLTDSYLYKYGWTLHDKHREVRLKCVKALKGLYGNRDLTTRLELFTSRFKDRMVSMVMDREYDVA
 VEA VRLLILILKNMEGVLTDADCESVYPVYASHRGLASAAGEFLYWKLFYPECEIRMMGGREQRQSPG
 AQRFFFQLLL SFFVESELHDHAAYLVDLWDCAGARLKDWEGLTSLLEKQNLGDVQESTLIEILVSS
 ARQASEGHPVGRVTGRKGLTSKERKTQADDRVKL TEHLIPLL PQLLAKFSADA EKVTPLLQLLSCFDL
 HIYCTGRLEKHELEFLQQLQEVVYKHAEPVLEAGAHALYLLCNPEFTFFSRADFARSQVLDLLTDRFQ
 QELEELLQSSFLDEDEVYNLAATLKRLSAFYNTHDLTRWELYEPCCQLLQKAVDTGEVPHQVILPALTL
 VYFSILWTLTHISKSDASQKQLSSLRDRMVAFCELCQSCLSVDVTEIQEQAFVLLSDLLLIFSPQMIVG
 GRDFLRPLVFFPEATLQSELASFLMDHVFIQPGDLGSGDSQEDHLQIERLHQRRRLLAGFCKLLLYGVL
 EMDAASDVFKHYNKFYNDYGDIIKETLTRARQIDRSHCSRILLLSLKQLYTELLQEHGPPQLNELPAFI
 EMRDLARRFALSFGPQQLQNRDLVVMLHKEGIQFSLSELPPAGSSNQPPNLAFLLELSEFSPRLFHQDK
 QLLL SYLEKCLQHVSQAPGHPWGPVTTYCHSLSPVENTAETSPQVLPSSKRRRVEGPAKPNREDVSSSQ
 EESLQLNSIPPTPTLTSTAVKSRQPLWGLKEMEEEDGSELDF AQGQPVAGTERS RFLGPQYFQTPHNPS
 GPGLGNQLMRLSLMEDEEEEEELEIQDESNEERQDTDMQASSYSSTSERGLDLLDSTELDIEDF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSTRFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

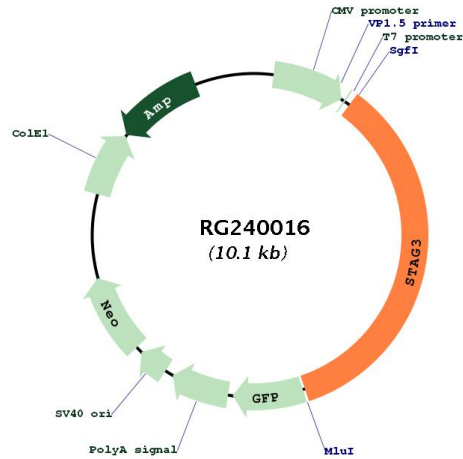
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_001282718

ORF Size: 3501 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).

RefSeq: [NM_001282718.2](#)

RefSeq Size: 4187 bp

RefSeq ORF: 3504 bp

Locus ID: 10734

UniProt ID: [Q9UJ98](#)

Cytogenetics: 7q22.1

Protein Pathways: Oocyte meiosis

MW: 132.8 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]