

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
AAAACAACACCCGGTGGCAAAACATCAAAGAAAGGGTCCCAGTGGTACATCGTCATAGCCGAAACAG
TCAGAGCCACCAGCCAATGATCTTTTCAATGCTGTGAAAGCCGCAAAAGTGACATGCAGGACTCGGGG
GACTACCCTCATAGCTCCAGGTCCATCTGGAAGAAGTTCAGGGCAGCTTCTGTGAATTTGTGAGG
ACATTGGTCTGTCAAGTGCAGTACAGCCTCCTCTATGATGGCTTCCCTATGGACGACCTCATCTCCCTG
CTCACTGGCCTCTCAGACTCACAAGTCCGCGCCTTCCGTCACACTAGCACCTGGCTGCTATGAAACTG
ATGACCTCCCTGGTAAAAGTTGCCCTCCAAGTGTGACCAAGATAACAATCAGCGTCAGTATGAG
GCTGAAAGAAACAAGGGGCCAGGGCAGAGGGCACCTGAGCGGCTGGAGAGCCTGTTGGAGAAACGCAAA
GAGCTCCAAGAGCATCAAGAGGAGATTGAGGGGATGATGAATGCCCTTTCAGGGGTGCTTTGTTTCAT
CGGTACAGGGATGTCCTTCTGAGATCCGTGCTATCTGCATTGAGGAAATGGGTGTTGGATGCAAAGC
TACAGCACGTCTTCTCACCGACAGCTATTTAAAATATATTGGTTGGACTCTGCATGATAAGCACCGA
GAAGTCCGCTGAAGTGTGTGAAGGCCGTGAAAGGGCTGTACGGTAACCGGGACCTGACCACACGCTG
GAGCTCTTCAACGACCGCTTCAAGGACCGATGGTTTCCATGGTATGGACAGAGAGTATGATGTGGCA
GTGGAGGCTGTCAGATTACTGATACTTATCCTTAAAGAACATGGAAGGGTGTGACGGACCGGATTGT
GAGAGCGTCTACCAGTTGTGTATGCCTCTCATCGAGGCTGGCCTTGCCGACAGGCAATTTCTGTAC
TGGAAACTCTTCTACCCTGAGTGCAGATAAGAATGATGGGTGGAAGAGAGCAACGCCAGAGCCCAGGC
GCCAGAGGACTTTCTCCAGCTTCTGCTGTCTTCTTTGTGGAGAGCGAGCTCCATGACCACGCTGCT
TACTTAGTAGACAGTCTGTGGGACTGTGCAGGGGCTCGGCTGAAGGACTGGGAGGGTCTGACAAGCCTG
CTGCTGGAGAAGGACCAGAACCTGGGTGATGTGCAGGAGAGCACACTGATAGAAATCCTTGTGTCCAGT
GCCCGCAAGCTTCAGAGGGGCACCCGCTGTGGGCCGGTCACTGGGAGGAAGGGCTTAACTCTAAG
GAGCGCAAGACCCAAGCCGATGACAGGGTGAAGTTGACTGAGCACCTCATCCCCCTGCTGCCACGCTC
CTGGCCAAGTTCTCAGCTGATGCAGAGAAGGTCACTCCCCGCTCCAGCTTCTCAGCTGCTTTGACCTC
```



[View online >](#)

CACATCTACTGCACTGGGCGCTTGGAGAAGCACCTGGAGCTGTTCTGCAGCAACTCCAGGAGGTGGTG
 GTGAAGCATGCAGAGCCAGCGGTGCTTGAAGCTGGGGCGCATGCCCTCTACCTGTCTGTAAATCCCGAA
 TTCACCTTCTTACGCCGGGCGGACTTTGCCCGCAGCCAGCTAGTAGATTTGCTGACTGACCGCTTCCAG
 CAGGAGCTTGAAGAGCTGTTACAGTCGTCTTCTAGATGAGGATGAGGTATAAATCTGGCAGCCACT
 CTGAAACGCCTCTCTGCCTTCTACAACACTCATGACCTGACTCGCTGGGAGCTCTATGAGCCATGTTGC
 CAACTCTGCAGAAGGCTGTGGACACAGGAGAGGTTCTCACCAGTTATCTGCCAGCCTTGACTCTT
 CTATTTTTCCATTCTCTGGACACTAACCCACATTTCTAAATCAGATGCTTCCCAGAAGCAGCTGTCG
 AGTTTGAGGGACAGAATGGTGGCCTTCTGTGAACCTGCCAGAGTTGCCCTCAGATGTGGATACTGAG
 ATCCAGGAGCAGGCTTTTGTCTTATTAAGTGATCTACTTCTCATCTTTAGCCCTCAGATGATTGTTGGG
 GGCCGTGATTTTCTTAGGCCACTTGTCTTTTTTCTGAAGCTACTCTCCAGTCTGAGCTAGCCAGCTTC
 CTCATGGACCACGTCTTCCATCCAGCCGGGAGACCTGGGCAGTGGTATTCCAGGAGGATCATTTACAG
 ATAGAGCGGCTACACCAGCGCGCCGCTCTAGCCGGTTCTGCAAGCTGTTGCTTTATGGGGTCTG
 GAGATGGATGCAGCCTCAGATGTTTTCAAACACTACAACAAGTTCTACAATGACTATGGTGACATTATC
 AAGGAAACATTAAGTAGAGCAAGGCAGATTGACCGAAGTCATTGTTCCCGAATCCTGCTGCTGAGCCTC
 AAGCAGCTGTACACAGAAGCTGCTGCAGGAGCATGGGCCCCAGGGCCTGAATGAGCTTCTGCCTTATC
 GAGATGAGGGACCTGGCCCGGAGGTTTGCCTTGAAGTTTGGACCCAGCAGCTGCAAGACCGTGACCTC
 GTGGTCATGCTACACAAGGAAGGCATCCAGTTCTCCTTGTCTGAGCTTCTCCAGCTGGCTCCTCCAAT
 CAGCCTCCAAATCTGGCATTCTGGAGCTCCTTTCAGAGTTTTCCCGGACTCTTCCATCAGGACAAG
 CAGCTTTTACTGTCTATCTAGAAAAGTGCCTGCAGCATGTCTCCAGGCACCTGGCCATCCCTGGGGC
 CCAGTCACCACCTACTGCCACTCCCTCAGCCCTGTGGAGAACACAGCAGAGACCAGCCCTCAGGTCTC
 CCCAGCTCCAAGAGGAGGCGCGTTGAAGGGCTGCCAAGCCTAACAGAGAGGACGTCTCCTCGTCCCAG
 GAAGAAAGTCTGCAGCTGAACAGCATCCCGCCACGCCACCCTCACCTCCACAGCTGTGAAGAGCAGG
 CAGCCCTGTGGGGTTGAAAGAGATGGAGGAAGAAGATGGCTCAGAGTTGGATTTTCCAGGGTCTGAG
 CCGTTCGAGGACCCGAGAGGTCAGGTTCTTGGGTCCACAATATTTCCAGACTCCACACACACCTTCA
 GGTCTGGCCTGGCAACCAGCTGATGCGACTCAGCCTTATGGAAGAGGACGAGGAAGAAGATTAGAA
 ATCCAGGATGAGTCAAATGAAGAACGGCAGGATACAGACATGCAAGCAAGTAGCTACTCTCCACCAGT
 GAGCGGGGCTGGACCTTAGATTCTACAGAGCTGGATATTGAGGATTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

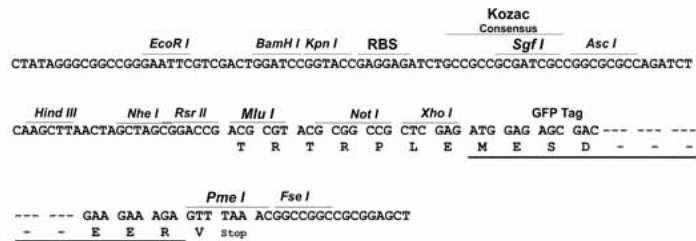
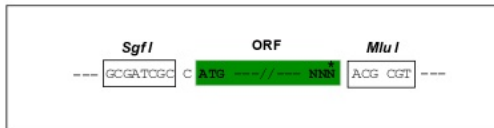
>Peptide sequence encoded by RG240016
 Blue=ORF Red=Cloning site Green=Tag(s)

MSSPLQRAVGDTKRALSASSSSASLPFDDRDSNHTSEGNGDSLLEDEDTDFEDSLNRNVKKRAAKRPP
 KTTVPVAKHPKKSRRVHRHSRQSEPPANDL FNAVKAASDMQDSGDYPLIAPGPSWKKFQGSFCEFVR
 TLVCQCQYSLLYDGFPMDDLISLLTGLSDSQVRAFRHTSTLAAMKLM TSLVKVALQLSVHQDNNQRQYE
 AERNKGPQQRAPERLESLLKREKELQEHQEEIEGMMNALFRGVFVHRYRDVLP EIRAICIEEIGCWMQS
 YSTSFLTDSYLKYGWTLHDKHREVRLKCVKALKGLYGNRDLTTRLELFTSRFKDRMVSMVMDREYDVA
 VEA VRLLILILKNMEGVLTDADCESVYPVYASHRGLASAAGEFLYWKLFYPECEIRMMGGREQRQSPG
 AQRFFFQLLL SFFVESELHDHAAYLVDLWDCAGARLKDWEGLTSLLEKQNLGDVQESTLIEILVSS
 ARQASEGHPVGRVTGRKGLTSKERKTQADRVKLTEHLIPLLPQLLAKFSADA EKVTPLLQLLSCFDL
 HIYCTGRLEKHELEFLQQLQEVVYKHAEPVLEAGAHALYLLCNPEFTFFSRADFARSQVLDLLTDRFQ
 QELEELLQSSFLDEDEVYNLAATLKRLSAFYNTHDLTRWELYEPCCQLLQKAVDTGEVPHQVILPALTL
 VYFSILWTLTHISKSDASQKQLSSLRDRMVAFCELCQSCLSDVDETEIQEQAFVLLSDLLLIFSPQMI
 VGRDFLRPLVFFPEATLQSELASFLMDHVFIQPGDLGSGDSQEDHLQIERLHQRRRLLAGFCKLLYGV
 LEMDAASDVFKHYNKFYNDYGDIIKETLTRARQIDRSHCSRILLLSLKQLYTELLQEHGPPQLNELPAFI
 EMRDLARRFALSFGPQQLQNRDLVVMLHKEGIQFSLSELPPAGSSNQPPNLAFLLELSEFSPRLFHQDK
 QLLL SYLEKCLQHVSQAPGHPWGPVTTYCHSLSPVENTAETSPQVLPSSKRRRVEGPAKPNREDVSSSQ
 EESLQLNSIPPTPTLTSTAVKSRQPLWGLKEMEEEDGSELDFAQGQPVAGTERSRLGPQYFQTPHNPS
 GPGLGNQLMRLSLMEDEEEEEELEIQDESNEERQDTDMQASSYSSTSERGLDLLDSTELDIEDF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSTRFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

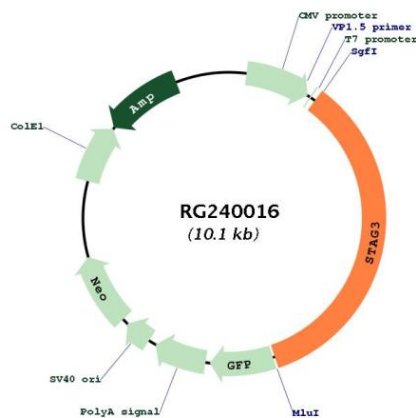


ACCN: NM_001282718

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]

Product images:



Circular map for RG240016