

## Product datasheet for MR216561

### Stag2 (NM\_001077712) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stag2 (NM_001077712) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stag2
Synonyms:	9230105L23Rik; B230112I07Rik; SA-2; SAP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR216561 representing NM_001077712 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGATAGCAGCTCCAGAAATACCAACTGATTTTAACTACTGCAGGAGTCAGAGACACACTTTTCTTCTG  
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Protein Sequence: >MR216561 representing NM\_001077712  
 Red=Cloning site Green=Tags(s)

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 AFKEPNPQGESHPPLNLAFLDILSEFSSKLLRQDKRTVYVYLEKFMFTFQMSLRREDVWLPLMSYRNSLLA  
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 LTSTIMREP KRLRPEDSFMSVYPMQAEHHQTPLDYNRRG TSLMEDDEEPIVEDVMMSSSEGRIEDLNEGMD  
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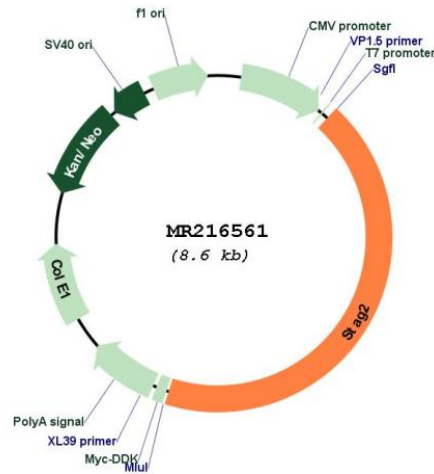
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9095\\_a04.zip](https://cdn.origene.com/chromatograms/mm9095_a04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001077712

**ORF Size:** 3693 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001077712.2](#), [NP\\_001071180.1](#)

RefSeq Size: 5977 bp

RefSeq ORF: 3696 bp

Locus ID: 20843

UniProt ID: [O35638](#)

Cytogenetics: X A4

MW: 141.3 kDa

**Gene Summary:** Component of cohesin complex, a complex 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 cohesin complex may also play a role in spindle pole assembly during mitosis (By similarity).[UniProtKB/Swiss-Prot Function]