

Product datasheet for MR231743

Stag2 (NM_001290713) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stag2 (NM_001290713) 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: >MR231743 representing NM_001290713
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR231743 representing NM_001290713
 Red=Cloning site Green=Tags(s)

MIAAPEIPTDFNLLQESETHFSSDTDFEDIEGKNQKQGKGTCKKGKGPAAEKGKSGNGGGKPPSGSNRM
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 LTSTIMREP KRLRPEDSFMSVYPMQAEHHQTPLDYNTQVTWMLAQRQQEEARQQQERAAMSYVKLRNLQ
 HAIRRGTS L MEDDEEPIVEDVMMSSEGRIEDLNEGMDFD TMDIDLPPSKNRRRETELKPDFDFPASIMDE
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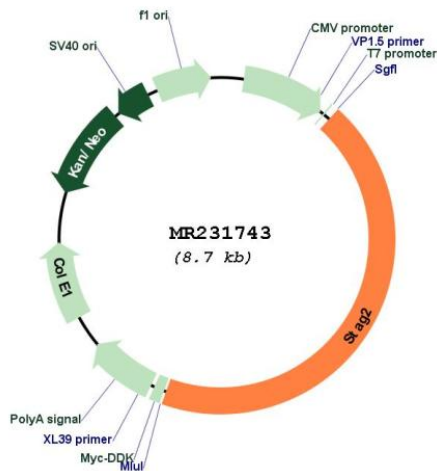
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290713

ORF Size: 3804 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_001290713.2](#)

RefSeq Size: 5814 bp

RefSeq ORF: 3807 bp

Locus ID: 20843

Cytogenetics: X A4

MW: 146.2 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]