

Product datasheet for MR202652

Spc25 (BC027121) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spc25 (BC027121) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Spc25
Synonyms: 2600017H08Rik; 2610205L13Rik; Spbc25
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202652 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGAAGACGAATTGGCACTCTTAAATCAAAGCATCAATGAATTTGGGGATAAGTTCAGAAACAGAC
TCGATGATAATCATAGTCAAGTGTGGGACTTAGAGACGCCTTCAAGGACTCCATGAAAGCGTTTTTCAGA
AAAGATGTCTTTGAAATTAAGGAAGAAGAGAGGATGACTGAGATGATTCTGGAGTATAAAAACCAGCTC
TGTAAGCAGAATAAGCTCATTCAAGAAAAGAAAGAGAATGTGTTGAAGATGATTGCTGAAGTAAAAGGCA
AGGAGCAAGAGTCGGAAGAGCTGACTGCTAAAATCCAGGAGCTCAAGGAAGAGTACGCTAGGAAGAGGGA
AACCATTTCCACTGCTAACAAAGCTAATGAAGAGAGATTGAAAGGACTGCAGAAATCAGCGGATCTGTAT
AGAGATTACCTTGACTAGAAATTAGAAAGATTACCGTAATAAATTGCAGTTTATATTTACTAGTATTG
ACCCTAAGAATCCTGAGAGCCATATATGTTTTCCATGAGCATAAATGAAGCTAAGGAATATGAAGTGTA
CGACAGTTCGCCTCATCTTGAGTGCCTAGCAGAAATTCAGGAGAAAGTCAGGAAGACCAACAATTTTTCA
GCTTTTCTTGCCAATATTCGGAAGGCTTTTATAGCTAAGGTTTATAAT

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR202652 protein sequence
Red=Cloning site Green=Tags(s)

MGEDELALLNQSINEFGDKFRNRLDDNHSQVLGLRDAFKDSMKAFSEKMSLKLKEEERMTEMILEYKNQL
 CKQNKLIQEKKENVLKMIAEVKGKEQESEELTAQIQELKEEYARKRETISTANKANEERLKGKLSADLY
 RDYLGLEIRKIHGNKLFIFTSIDPKNPESPYMFMSINEAKEYEYDSSPHLECLAEFQEKVRKTNNFS
 AFLANIRKAFIAKVHN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC027121

ORF Size: 678 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC027121](#), [AAH27121](#)

RefSeq Size: 1344 bp

RefSeq ORF: 680 bp

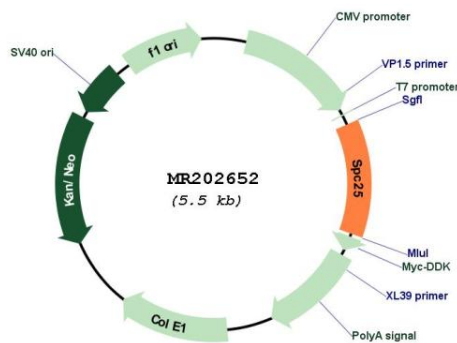
Locus ID: 66442

Cytogenetics: 2 C2

MW: 26.5 kDa

Gene Summary: This gene encodes a component of the kinetochore-associated NDC80 protein complex, which is required for the mitotic spindle checkpoint and for microtubule-kinetochore attachment. During meiosis in mouse, the protein localizes to the germinal vesicle and then is associated with the chromosomes following germinal vesicle breakdown. Knockdown of this gene in oocytes results in precocious polar body extrusion, chromosome misalignment and aberrant spindle formation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR202652