

## Product datasheet for **MG202652**

### Spc25 (BC027121) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spc25 (BC027121) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spc25
Synonyms:	2600017H08Rik; 2610205L13Rik; Spbc25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202652 representing BC027121 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTGAAGACGAATTGGCACTCTTAAATCAAAGCATCAATGAATTTGGGGATAAGTTCAGAAACAGAC  
TCGATGATAATCATAGTCAAGTGTGGGACTTAGAGACGCCTTCAAGGACTCCATGAAAGCGTTTTTCAGA  
AAAGATGTCTTTGAAATTAAGGAAGAAGAGAGGATGACTGAGATGATTCTGGAGTATAAAAACCAGCTC  
TGTAAGCAGAATAAGCTCATTCAAGAAAAGAAAGAGAATGTGTTGAAGATGATTGCTGAAGTAAAAGGCA  
AGGAGCAAGAGTCGGAAGAGCTGACTGCTAAAATCCAGGAGCTCAAGGAAGAGTACGCTAGGAAGAGGGA  
AACCATTTCCACTGCTAACAAAGCTAATGAAGAGAGATTGAAAGGACTGCAGAAATCAGCGGATCTGTAT  
AGAGATTACCTTGGACTAGAAATTAGAAAGATTCACGGTAATAAATTGCAGTTTATATTTACTAGTATTG  
ACCCTAAGAATCCTGAGAGCCCATATATGTTTTCCATGAGCATAAATGAAGCTAAGGAATATGAAGTGTA  
CGACAGTTCGCCTCATCTTGAGTGCCTAGCAGAAATTCAGGAGAAAGTCAGGAAGACCAACAATTTTTCA  
GCTTTTCTTGCCAATATTCGGAAGGCTTTTATAGCTAAGGTTTATAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202652 representing BC027121  
 Red=Cloning site Green=Tags(s)

MGEDELALLNQSINEFGDKFRNRLDDNHSQVLGLRDAFKDSMKAFSEKMSLKLKEEERMTEMILEYKNQL  
 CKQNKLIQEKKENVLKMIAEVKGKEQESEELTAKIQELKEEYARKRETISTANKANEERLKGLQKSADLY  
 RDYLGLEIRKIHGNKLQFIFTSIDPKNPESPYMF SMSINEAKEYEYVDSSPHLECLAEFQEKVRKTNNFS  
 AFLANIRKAFIAKVHN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC027121

**ORF Size:** 680 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:** [BC027121](#), [AAH27121](#)

**RefSeq Size:** 1344 bp

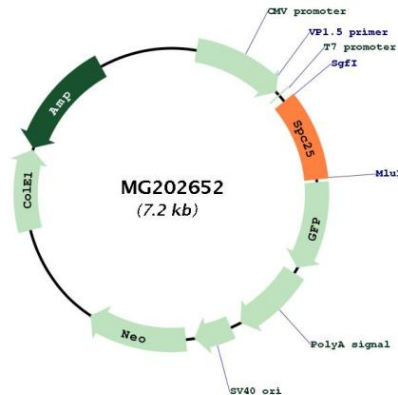
**RefSeq ORF:** 680 bp

**Locus ID:** 66442

**Cytogenetics:** 2 C2

**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 MG202652