

## Product datasheet for MC210369

### Spc25 (NM\_025565) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Spc25 (NM_025565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spc25
Synonyms:	2600017H08Rik; 2610205L13Rik; Spbc; Spbc25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210369 representing NM_025565 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTTGAAATTAAAGGAAGAAGAGAGGATGACTGAGATGATTCTGGAGTATAAAACCAGCTCTGTA  
AGCAGAATAAGCTCATTCAAGAAAAGAGAATGTGTTGAAGATGATTGCTGAAGTAAAGGCAAGGA  
GCAAGAGTCGGAAGAGCTGACTGCTAAATCCAGGAGCTCAAGGAAGAGTACGCTAGGAAGAGGAAACC  
ATTTCCACTGCTAACAAGCTAATGAAGAGAGATTGAAAGGACTGCAGAAATCAGCGGATCTGTATAGAG  
ATTACCTTGACTAGAAATTAGAAAGATTCACGGTAATAAATTGCAGTTTATTTACTAGTATTGACCC  
TAAGAATCCTGAGAGCCCATATATGTTTTCCATGAGCATAAATGAAGCTAAGGAATATGAAGTGTACGAC  
AGTTCGCCTCATCTTGAGTGCCTAGCAGAAATTCAGGAGAAAGTCAGGAAGACCAACAATTTTCAGCTT  
TTCTTGCCAATATTCGGAAGGCTTTTATAGCTAAGGTTTCATAAT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_025565
Insert Size:	537 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_025565.4</a> , <a href="#">NP_079841.1</a>
<b>RefSeq Size:</b>	1235 bp
<b>RefSeq ORF:</b>	537 bp
<b>Locus ID:</b>	66442
<b>UniProt ID:</b>	<a href="#">Q3UA16</a>
<b>Cytogenetics:</b>	2 C2
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and lacks an exon in the 5' coding region, which results in use of a downstream start codon compared to variant 1. It encodes isoform (2), which has a shorter N-terminus compared to isoform 1.</p>