

Product datasheet for **RN202582**

Spc25 (NM_001009654) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spc25 (NM_001009654) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Spc25
Synonyms:	RGD1307811; Spbc25
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN202582 representing NM_001009654 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTGAAGACGAAGTGGCAGCCTTCGAGAAAAGCATAAACGAATTTGGGGACAAGTTCGGGTACAGAC
TCAGTGATAATCGTAGCCAGGTGCTGGGACTTAAAGATGCCTTCAAGGACTCCATTAGAGCGCTTTCAGA
AAAGCTGTCTTTGAACTAAAGGAAGAAGAAAGGATGGCTGAGATGATTCTGGAATATAAAATCAGCTC
TGTAAGCAGAATAAGCTCATTCAAGAAAAGAAGGATAATGTGTTAAAGATGATTGCTGAAGTGAAAGGCA
AAGGGCAGGAGGTGGAAGTGCTGACGGCAAACATCCAGGATCTGAAGGAGGAGTACGCCAGGAAGAAGGA
GACCATTTCCACTGCTAACAAAGCCAATGAAGAGAGATTGAAACGGCTGCAGAAATCAGCGGATTTGTAT
AGAGATCGCCTTGGAAGTAAAGATTCTGGTGATAAGCTGCAGTTTATTTACTAGTATTG
ACCCTAAGAATCCTGAGAGCCCCCTTCATGTTTTCCCTGAGCATAAATGAAGCTAAGGAATATGAAGTGTC
CGACTGTTACCTCATCTTGAGTGCCTAGCAGAAATTCAGGAGAAAGTCAGGAAGACCAACAATTTTCA
GCCTTCCTTGCCAATGTTTCGAAAGCTTTATAGCTAAGGTTCAAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001009654
Insert Size:	681 bp



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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).
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:	<u>NM_001009654.1</u> , <u>NP_001009654.1</u>
RefSeq Size:	1291 bp
RefSeq ORF:	681 bp
Locus ID:	295661
UniProt ID:	<u>Q5M856</u>
Cytogenetics:	3q21
Gene Summary:	Acts as a component of the essential kinetochore-associated NDC80 complex, which is required for chromosome segregation and spindle checkpoint activity. Required for kinetochore integrity and the organization of stable microtubule binding sites in the outer plate of the kinetochore. The NDC80 complex synergistically enhances the affinity of the SKA1 complex for microtubules and may allow the NDC80 complex to track depolymerizing microtubules.[UniProtKB/Swiss-Prot Function]