

Product datasheet for **MC228263**

Spata7 (NM_001289572) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata7 (NM_001289572) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spata7
Synonyms:	A1661438; B230306G18Rik; HSD3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228263 representing NM_001289572
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGCAGCCGGAGAGTCCAGAGCAACCTCTGTCTCCCAGATACAGCCCTCCATGCTTGTTTACAG
 GACACCTGAGCACCAAGAGCAACGCCGAGTGGACTGCTCAATCCAGTAAGTGTGAATACTAGCATCAA
 ATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGGCACGGTGTGAAAAGGAGTTAAATTA
 AGTAAATCTGCTATGCAGACCAATTCTAAGATGAATTCCAAGTTCTTTGTAATCTCTACAGAAGCCCT
 CAGGGGAACCAAGACCAGGATGTGTTTATAGAAGAAATGACAAGATACCCATCATTTCAAAAGTCACT
 CATCCCTTCTCCGAGGGACTGCATCTAAGTCTGCCTGAATCAAGTAAGATGCTCATGAGTGGCACCCAG
 AAGCATGCCAGCACCTCTCCATCCAGACACTCAGGCTGTGGCATGGCTGCGACAGGCGCCCTCGGAGTG
 CCCACCAGTTCAGGTAGCCCTCGCAAGACCCCAAGTGGAGATCTGTTGAAAAGCACTCTGACCTCTT
 CTCTAACAAAGCAGTCGCCATTCCTCCAGCAACTTTAAAAACAGAAAGCAAGTCTTCTGTCCAGTAC
 CGCTACTACACACTGCCAAAAGAAAGGATTTTTCAGATCAGCGGATGGAAGCTGAAACCCAAACTG
 AATTAAGCAGCTTAACTCTGAGCTTGGGACAGCTGAGAAAACGAGCTCAAAGGACTCAGAAGTGAACAT
 AAACCAGGTACCTAATTACAGAGAAATGGTGTGAAGACAAAATAGCTCCTTTACCCTCACAAGGACAA
 AACTTAGCATGGGACAGTATTCAAGATGGGATTCTGCAGCAGTCTCAGAAAGGGCATCTGTAAGCTCT
 CCACAGAGTTTTCTCCAGACAGTAAAATCTACTCTGATGAAGAAGAGCTGCTGTACCTGAGTTTCATGGA
 AAATGTGACGGATGAAATCTTGAACCTGGTTTATTTTCTAACAGTTTCTAGAGCGACTGTTTGAGCGA
 CATATAAAGAAAAATAAACATCATTGGAGGAGGAAAGATGCGCTACCTGCTGCATGGGCTGAAGGTTG
 ACTTAGGCTGCATCTGAGGAAGACCCAGCAAAGCAAAAACATTTTCAGAAATGTTGAATCAACTTCATT
 TCAAAAGGCTCTGATTTCAAGAGAAAAATGAGTTTGTAAAGTATGAAGAAACAGTGAATCACCACGAGCGC
 CAGCAGTACCAGGAGGCCCTGGACATGCTGTGCGCTGTGCCGAAGGACGAAAACAAGATGTTCTCTTTAC
 CGGGCGAATTTTTAATACCCGCCATAAAGTCAAGCATTAGAGGGTGTATAATTCAACAGGTCAATGA
 CGAAACAGATAATGAAGCCTCACCTGGAATGAAAACAATCCAAGTGTCTGATAGTGAATAGACCAG
 GAAACCTCTGTGGATGTCATTGAAGGTGACAGTACTTTGAAAGGGCTGAGACTTCCAGGAACTCTGTT
 GTCTGAGCACATCACTGTCCCATCTGGTCCATCCCAAGCATCAATGGTGGCAGTAATCATGGTAAGGA
 ATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001289572
- Insert Size:** 1653 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001289572.1](#), [NP_001276501.1](#)

RefSeq Size: 1975 bp

RefSeq ORF: 1653 bp

Locus ID: 104871

Cytogenetics: 12 E

Gene Summary: Involved in the maintenance of both rod and cone photoreceptor cells (PubMed:25398945, PubMed:29100828, PubMed:29899041). Required for photoreceptor-specific localization of proximal connecting cilium (CC) proteins RPGR, AHI1, NPHP1, NPHP4, and RPGRIP1 at the distal CC, a photoreceptor-specific extension of the primary cilium transition zone (PubMed:25398945, PubMed:29100828, PubMed:29899041). Maintenance of protein localization at the photoreceptor-specific distal CC is essential for normal microtubule stability and to prevent photoreceptor degeneration (PubMed:25398945, PubMed:29899041). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded protein (isoform 2) is shorter, compared to isoform 1.