

Product datasheet for **MC227579**

Spata7 (NM_001289573) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata7 (NM_001289573) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spata7
Synonyms:	AI661438; B230306G18Rik; HSD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227579 representing NM_001289573 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGGCAGCCGGAGAGTCAGAGCAACCTCTGTCTCCCCAGATACAGCCCTCCATGCTTGTTTACAG
GACACCTGAGCACCAGAGCAACGCTTTTTGCACTGATTCCTCTCTCAGACTAAGCACCTGCAGCT
GGTCAAGAACCACATGGCTATTCCTATAATAAAATCCTTTCAGCCAAAGCCGAGTGGACTGCTCAATT
CCAGTAAGTGTGAATACTAGCATCAAATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGG
CACGGTGTGAAAAGGAGTTAAATTAAGTAAATCTGCTATGCAGACCAATTCTAAGATGAATTCCAAGTT
CTTTGTAATTTCTACAGAAGGTACCTAATTACACGAGAAATGGTGTGAAGACAAAATAGCTCCTTTA
CCCTCACAAAGGACAAAATTAGCATGGGACAGTATTCAAGATGGGATTCTGCAGCAGTCCCTCAGAAAGGG
CATCCTGTAAGCTCTCCACAGAGTTTTCTCCAGACAGTAAAATCTACTCTGATGAAGAAGAGCTGTGTA
CCTGAGTTTATGGAAAATGTGACGGATGAAATCTTGAACTTGGTTTATTTTCTAACAGTTTCTAGAG
CGACTGTTTGAGCGCATATAAAGAAAAATAACATCATTTGGAGGAGGGAAAGATGCGCTACCTGCTGC
ATGGGCTGAAGTTGACTTAGGCTGCATATCTGAGGAAGACCCAGCAAAGCAAAAACATTTCAAGATGTT
GAATCAACTTCATTTTCAAAGGCTCTGATTTCAAGAGAAAATGAGTTTGTAAAGTGAAGAAACAGTG
AGTCACCACGAGCGCCAGCAGTACCAGGAGCCCTGGACATGCTGTCGGCTGTGCCGAAGGACGAAAACA
AGATGTTCTCTTTACCGGCGAATTTTTAATACCGCCATAAAGTCAAGCATTACAGAGGGTGTATAAT
TCAACAGGTCAATGACGAAACAGATAATGAAGCCTCACCTGGAATGAAAACAATCCAAGTGTCTGAT
AGTGTAATAGACCAGGAAACCTCTGTGGATGTCATTGAAGGTGACAGTGACTTTGAAAGGCTGAGACTT
CCAGGGAACTCTGTTGTCTGAGCACATCACTGTCCCATCTGGTCCATTCAGCATCAATGGTGGCAG
TAATCATGGTAAGGAATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001289573
Insert Size:	1248 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:	<ol style="list-style-type: none">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_001289573.1</u> , <u>NP_001276502.1</u>
RefSeq Size:	1570 bp
RefSeq ORF:	1248 bp
Locus ID:	104871
Cytogenetics:	12 E
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks two alternate in-frame exons, compared to variant 1. The encoded protein (isoform 3) is shorter, compared to isoform 1.</p>