

Product datasheet for **MC227890**

Spata7 (NM_001289574) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata7 (NM_001289574) 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: >MC227890 representing NM_001289574
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGACCAATTCTAAGATGAATTCCAAGTTCTTTGTAATTCTCTACAGAAGCCCTCAGGGGAACCAC
AAGACCAGGATGTGTTTCATAGAAGAAATGACAAGATACCCATCATTTTCAAAGTCACTCATCCCTTCTTC
CGAGGGACTGCATCTAAGTCTGCCTGAATCAAGTAAGATGCTCATGAGTGGCACCAGAAGCATGCCAGC
ACCTCTCCATCCAGACTCAGGCTGTGGGCATGGCTGCGACAGGCGCCCTCGGAGTGCCACCAGTTCC
AGGTAGCCCTCGCAAGACCCCAAGTGGAGATCTGTTGGAAAAGCACTCTGACCTCTTCTCTAACAAGCA
GTGCCATTCACTCCACGAACCTTAAAAACAGAAGCAAAGTCTTCTGTACAGTACCGCTACTACACA
CCTGCCAAAAGAAGAAAGGATTTTTCAGATCAGCGGATGGAAGCTGAAACCCAACTGAATTAAGCAGCT
TTAACTCTGAGCTTGGGACAGCTGAGAAAACGAGCTCAAAGGACTCAGAAGTGAACATAAACAGGTACC
TAATTACACGAGAAATGGTGCTGAAGACAAAATAGCTCCTTTACCCTCACAGGACAAAACCTTAGCATGG
GACAGTATTCAAGATGGGATTCTGCAGCAGTCCCTCAGAAAGGGCATCCTGTAAGCTCTCCACAGAGTTTT
CTCCAGACAGTAAAATCTACTCTGATGAAGAAGAGCTGCTGTACCTGAGTTTTATGGAAAATGTGACGGA
TGAAATCTTGAACTTGGTTTATTTTCTAACAGTTTCTAGAGCGACTGTTTGAGCGACATATAAAGAAA
AATAAACATCATTTGGAGGAGGGAAAGATGCGCTACCTGCTGCATGGGCTGAAGGTTGACTTAGGCTGCA
TATCTGAGGAAGACCCAGCAAAGCAAAAACATTTCAGAATGTTGAATCAACTTCATTTTCAAAGGCTCT
GATTTCAAGAGAAAATGAGTTTGAAGTATGAAGAACAGTGAAGTACCACGAGCGCCAGCAGTACCAG
GAGGCCCTGGACATGCTGTGCGCTGTGCCGAAGGACGAAAACAAGATGTTCTCTTACCAGGCGAATTTT
TAATACCCGCCATAAAGTCAAGCATTCAAGGGTGTATAATTCAACAGGTCAATGACGAAACAGATAA
TGAAGCCTCACCCCTGGAATGAAAACAATCCAAGTGTTCGATAGTGAATAGACCAGGAAACCTCTGTG
GATGTCATTGAAGGTGACAGTGACTTTGAAAGGCTGAGACTTCCAGGAACTCTGTTGTCTGAGCACAT
CACTGTCCCATCTGGTCCATTCCCAGCATCAATGGTGGCAGTAATCATGGTAAGGAATTATCGACTCT
ACGAATCATGGGAATGAGCATTGAAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001289574

Insert Size: 1431 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_001289574.1](#), [NP_001276503.1](#)

RefSeq Size: 2137 bp

RefSeq ORF: 1431 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 (4) contains an alternate exon and lacks an alternate exon in the 5' coding region, and uses an alternate downstream translation start codon, compared to variant 1. The encoded protein (isoform 4) has a shorter and distinct N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.