

Product datasheet for **MR230474**

Spata7 (NM_001289572) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR230474 representing NM_001289572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGCAGCCGGAGAGTCCAGAGCAACCTCTGTCTCCCAGATACAGCCCTCCATGCTTGTTTACAG
 GACACCTGAGCACCAAGAGCAACGCCGAGTGGACTGCTCAATCCAGTAAGTGTGAATACTAGCATCAA
 ATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGGCAGCGGTGAAAAAGAGTTTAAATTA
 AGTAAATCTGCTATGCAGACCAATTCTAAGATGAATTCCAAGTCTTTGTAATCTCTACAGAAGCCCT
 CAGGGGAACCAAGACCAGGATGTGTTTATAGAAGAAATGACAAGATACCCATCATTTCAAAGTCACT
 CATCCCTTCTCCGAGGGACTGCATCTAAGTCTGCCTGAATCAAGTAAGTGTCTCATGAGTGGCACCAG
 AAGCATGCCAGCACCTCTCCATCCAGACTCAGGCTGTGGCATGGCTGCGACAGGCGCCCTCGGAGTG
 CCCACCAGTTCAGGTAGCCCTCGCAAGACCCCAAGTGGAGATCTGTTGAAAAGCACTCTGACCTCTT
 CTCTAACAAAGCAGTCGCCATTCCTCCAGCAACTTTAAAAACAGAAAGCAAGTCTTCTGTCCAGTAC
 CGCTACTACACACTGCCAAAAGAAAGGATTTTTTCAGATCAGCGGATGGAAGCTGAAACCCAAACTG
 AATTAAGCAGCTTAACTCTGAGCTTGGGACAGCTGAGAAAACGAGCTCAAGGACTCAGAAGTGAACAT
 AAACCAGGTACCTAATTACAGAGAAATGGTGTGAAGACAAAATAGCTCCTTTACCCTCACAAGGACAA
 AACTTAGCATGGGACAGTATTCAAGATGGGATTCTGCAGCAGTCCCTCAGAAAGGGCATCTGTAAGCTCT
 CCACAGAGTTTTCTCCAGACAGTAAAATCTACTCTGATGAAGAAGAGCTGCTGTACCTGAGTTTCATGGA
 AAATGTGACGGATGAAATCTTGAACCTTGGTTTATTTTCTAACAGTTTCTAGAGCGACTGTTTGAGCGA
 CATATAAAGAAAAATAAACATCATTGGAGGAGGAAAGATGCGCTACCTGCTGCATGGGCTGAAGGTTG
 ACTTAGGCTGCATATCTGAGGAAGACCCAGCAAGCAAAAACATTTTCAGAAATGTTGAATCAACTTCATT
 TCAAAAGGCTCTGATTTCAAGAGAAAATGAGTTTGTAAAGTGAAGAAACAGTGAATCACCACGAGCGC
 CAGCAGTACCAGGAGGCCCTGGACATGCTGTGCGCTGTGCCGAAGGACGAAAACAAGATGTTCTTTTAC
 CGGGCGAATTTTTAATACCCGCCATAAAGTCAAGCATTAGAGGGTGTATAATTCAACAGGTCAATGA
 CGAAACAGATAATGAAGCCTCACCTGGAATGAAAACAATCCAAGTGTCTGATAGTGAATAGACCAG
 GAAACCTCTGTGGATGTCATTGAAGGTGACAGTACTTTGAAAGGGCTGAGACTTCCAGGAACTCTGTT
 GTCTGAGCACATCACTGTCCCATCTGGTCCATCCCCAGCATCAATGGTGGCAGTAATCATGGTAAGGA
 ATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230474 representing NM_001289572
 Red=Cloning site Green=Tags(s)

MDGRRVRATSVLPRYSPPCLFTGHLSTKSNAAVDCSIPVSVNTSIKYADQQRREKLRKELARCEKEFKL
 SKSAMQTNMNSKFFVNSLQKPSGEPQDQDVFIEEMTRYPSFSKSLIPSSSEGLHLSLPESSKMLMSGTQ
 KHASTSPSRHSGCGHGCDRRPRSAHQFQVALAKTPSGDLLEKHSDFSNKQSPFTPRTLKTEAKSFLSQY
 RYYTPAKRRKDFSDQRMEAETQTELSFNSLGTAEKTSKSEVNINQVNYTRNGAEDKIAPLPSQGG
 NLAWDSIQDGILQQSSERASCKLSTEFSPDSKIYSDEEELLYLSFMENVTDEILKGLFSNRFLERLFR
 HIKKNKHHLEEGKMYLLHGLKVDLGCISEEDPAKQKHFRLNQLHFQKALISRENEFVSDEETVSHHER
 QQYQEALDMLSAVPKDENKMFSLPGEFLIPAHKVKHSEGVIIQQVNDDETNEASPNWENNPSVSDSVIDQ
 ETSVDVIEGDSDFERAETSRELCLSTSLSPSGPFPSINGGSNHGKELSTLRIMGMSIED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001289572

ORF Size: 1650 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

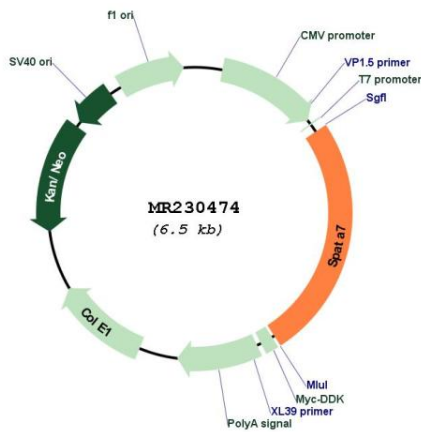
Locus ID: 104871

Cytogenetics: 12 E

MW: 62.5 kDa

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]

Product images:



Circular map for MR230474