

Product datasheet for **MG209112**

Spata7 (NM_178914) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata7 (NM_178914) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Spata7
Synonyms:	A1661438; B230306G18Rik; HSD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209112 representing NM_178914
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGCAGCCGGAGAGTCAGAGCAACCTCTGTCTCCCAGATACAGCCCTCCATGCTTGTTTACAG
 GACACCTGAGCACCAAGAGCAACGCTTTTTGCACTGATTCTTCTCTCAGACTAAGCACCTGCAGCT
 GGTCAAGAACCACATGGCTATTCACATAATAAAATCCTTTCAGCCAAAGCCGAGTGGACTGCTCAATT
 CCAGTAAGTGTGAATACTAGCATCAAATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGG
 CACGGTGTGAAAAGGAGTTAAATTAAGTAAATCTGCTATGCAGACCAATTCTAAGATGAATCCAAGTT
 CTTTGTAAATTCTACAGAAGCCCTCAGGGGAACCACAAGACCAGGATGTGTTTATAGAAGAAATGACA
 AGATACCCATCATTTTCAAAGTCACTCATCCCTTCTCCGAGGGACTGCATCTAAGTCTGCCTGAATCAA
 GTAAGATGCTCATGAGTGGCACCCAGAAGCATGCCAGCACCTCTCCATCCAGACACTCAGGCTGTGGCA
 TGGCTGCGACAGGCGGCCCTCGGAGTGCCACCAGTTCCAGGTAGCCCTCGCCAAGACCCCAAGTGGAGAT
 CTGTTGAAAAGCACTCTGACCTTCTCTAACAAGCAGTCGCCATTCCTCCAGCAACTTTAAAAACAG
 AAGCAAAGTCCTTCTGTACAGTACCGTACTACACACCTGCCAAAAGAAAGGATTTTTAGATCA
 GCGGATGGAAGCTGAAACCCAACTGAATTAAGCAGCTTAACTCTGAGCTTGGGACAGCTGAGAAAACG
 AGCTCAAAGGACTCAGAAGTGAACATAAACCAGGTACCTAATTACACGAGAAATGGTGTGAAGCAAAA
 TAGCTCCTTTACCTCACAAGGACAAACTTAGCATGGGACAGTATTCAAGATGGGATTTCTGCAGCAGTC
 CTCAGAAAGGGCATCCTGTAAGCTCTCCACAGATTTTCTCCAGACAGTAAATCTACTCTGATGAAGAA
 GAGTCTGTACCTGAGTTTTCATGAAAATGTGACGGATGAAATCTTGAACCTTGGTTTATTTTCTAACA
 GGTTTCTAGAGCGACTGTTTGGCGACATATAAAGAAAAATAAACATCATTGGAGGAGGAAAGATGCG
 CTACCTGCTGCATGGGCTGAAGGTTGACTTAGGCTGCATATCTGAGGAAGACCCAGCAAAGCAAAAACAT
 TTCAGAATGTTGAATCAACTTCATTTTCAAAGGCTCTGATTTCAAGAGAAAATGAGTTTGAAGTATG
 AAGAAACAGTGAATCACCACGAGCGCCAGCAGTACCAGGAGGCCCTGGACATGCTGTGCGCTGTGCCGAA
 GGACGAAAACAAGATGTTCTCTTACCAGGCGAATTTTTAATACCCGCCATAAAGTCAAGCATTAGAG
 GGTGTTAATAATCAACAGGTCAATGACGAAACAGATAATGAAGCCTCACCTGGAATGAAAACAATCCAA
 GTGTTTCTGATAGTGAATAGACCAGGAAACCTCTGTGGATGTCATTGAAGGTGACAGTACTTTGAAAG
 GGCTGAGACTCCAGGAACTCTGTTGTCTGAGCACATCACTGTCCCATCTGGTCCATTCCCAGCATC
 AATGGTGGCAGTAATCATGGTAAGGAATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209112 representing NM_178914
 Red=Cloning site Green=Tags(s)

MDGSRVRATSVLPRYSPPCLFTGHLSTKSNFCTDSSSLRSLTLQLVKNHMAIHYNKILSAKAAVDCSI
 PVSVNTSIKYADQQRREKLKELARCEKEFKLSKAMQTNMNSKFFVNSLQKPSGEPQDQDFIEEMT
 RYPSFSKSLIPSSSEGLHLSLPSSKMLMSGTQKHASTSPSRHSGCGHGCDRRPRSAHQFQVALAKTPSGD
 LLEKHSDFSNKQSPFPTPRTLKTEAKSFLSQYRYYPKRRKDFSDQRMEAETQTELSFNSLGTAEKT
 SSKDSEVNINQVNYTRNGAEDKIAPLPSQGQNLAWDSIQDGILQSSERASCKLSTEFSPDSKIYSDEE
 ELLYL SFMENVTDEILKGLFSNRFLERL FERHIKKNKHHLEEGKMRYLLHGLKVDLGCISEEDPAKQKH
 FRMLNQLHFQKALISRENEFVSDEETVSHHERQQYQEALDMLSAVPKDENKMFSLPGEFLIPAHKVKHSE
 GVIIQQVNDETDNEASPNWENNPSVSDSVIDQETSVDVIEGSDSDFERAETSRELCLSTSLSPSGPFPSI
 NNGSNHGKELSTLRIMGMSIED

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	NM_178914.4
RefSeq Size:	2076 bp
RefSeq ORF:	1749 bp
Locus ID:	104871
UniProt ID:	Q80VP2
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]