

Product datasheet for MR229790

Spata7 (NM_001289573) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata7 (NM_001289573) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spata7
Synonyms:	AI661438; B230306G18Rik; HSD3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229790 representing NM_001289573 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGATGGCAGCCGGAGAGTCAGAGCAACCTCTGTCTCCCCAGATACAGCCCTCCATGCTTGTTTACAG
GACACCTGAGCACCAAGAGCAACGCTTTTTGCACTGATTCTCTCTCAGACTAAGCACCTGCAGCT
GGTCAAGAACCACATGGCTATTTACTATAATAAAATCCTTTGACCAAAGCCGCGAGTGGACTGCTCAATT
CCAGTAAGTGTGAATACTAGCATCAAATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGG
CACGGTGTGAAAAGGAGTTAAATTAAGTAAATCTGCTATGCAGACCAATTCTAAGATGAATCCAAAGT
CTTTGTAATTTCTACAGAAGGTACCTAATTACACGAGAAAATGGTGTGAAGACAAAATAGCTCCTTTA
CCCTCACAAAGGACAAAACCTTAGCATGGGACAGTATTCAAGATGGGATTCTGCAGCAGTCTCAGAAAGGG
CATCCTGTAAGCTCTCCACAGAGTTTTCTCCAGACAGTAAAATCTACTCTGATGAAGAAGAGCTGCTGTA
CCTGAGTTTCATGGAATGTGACGGATGAAATCTTGAACCTGGTTTATTTTCTAACAGGTTTCTAGAG
CGACTGTTTGAGCGACATATAAAGAAAAATAAACATCATTTGGAGGAGGAAAGATGCGCTACCTGCTGC
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AGTCAACCAGGAGCGCCAGCAGTACCAGGAGGCCCTGGACATGCTGTGGCTGTGCCGAAGGACGAAAACA
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TCAACAGGTCAATGACGAAACAGATAATGAAGCCTCACCTGGAATGAAAACAATCCAAGTGTCTGAT
AGTGTAAAGACCAGGAAACCTCTGTGGATGTCATTGAAGGTGACAGTGACTTTGAAAGGGCTGAGACTT
CCAGGGAACCTGTTGTCTGAGCACATCACTGTCCCCATCTGGTCCATTTCCAGCATCAATGGTGGCAG
TAATCATGGTAAGGAATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGAC

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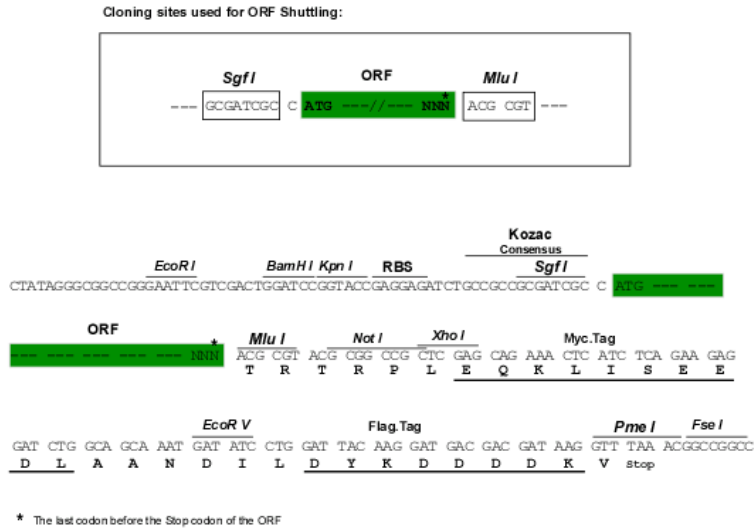
Protein Sequence: >MR229790 representing NM_001289573
 Red=Cloning site Green=Tags(s)

MDGSRRVRATSVLPYSPCLFTGHLSTKSNACFDSSSLRSLTLQLVKNHMAIHYNKILSAKAAVDCSI
 PVSVNTSIKYADQQRREKLKELARCEKEFKLSKAMQTNSKMNSKFFVNSLQKVPNYTRNGAEDKIAPL
 PSQGNLAWDSIQDILQSSERASCKLSTEFSPDSKIYSDEEELLYLSFMENVTDEILKGLFSNRFLE
 RLFERHIKKNKHLEEGKMYRLHGLKVDLGCISEEDPAKQKHFRMLNQLHFQKALISRENEFVSDEETV
 SHHERQQYQEALDMLSAVPKDENKMFSLPGEFLIPAHKVKHSEGVIIQQVNDDETNEASPNWENNPVSVD
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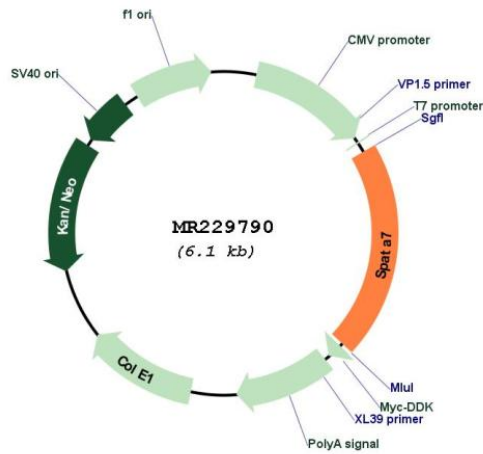
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289573

ORF Size:	1245 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:	<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_001289573.1 , NP_001276502.1
RefSeq Size:	1570 bp
RefSeq ORF:	1248 bp
Locus ID:	104871
Cytogenetics:	12 E
MW:	47.4 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]