

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229790 representing NM_001289573 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
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ATGGATGGCAGCCGAGAGTCAAGCAACCTCTGTCTCCCGAGATACAGCCCTCCATGCTTGTACAG
 GACACCTGAGCAGCAAGAGCAACGCTTTTGCAGTATTCCTCTCTCAGACTAAGCACCTGCAGCT
 GGTCAAGAACCACATGGCTATTCATATAATAAAATCCTTCAGCCAAAGCCGAGTGGACTGCTCAATT
 CCAGTAAGTGTGAATACTAGCATCAAATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGG
 CACGGTGTGAAAAGGAGTTTAAATTAAGTAAATCTGCTATGCAGACCAATTCTAAGATGAATTCCAAGTT
 CTTTGTAATTTCTACAGAAGGTACCTAATTACACGAGAAATGGTGCTGAAGACAAAATAGCTCCTTTA
 CCCTCACAAGGACAAAATTAGCATGGGACAGTATTCAAGATGGGATTCTGCAGCAGTCCCTCAGAAAGGG
 CATCCTGTAAGCTCTCCACAGAGTTTCTCCAGACAGTAAATCTACTCTGATGAAGAAGAGCTGCTGTA
 CCTGAGTTTATGGAAAATGTGACGGATGAAATCTTGAACTTGGTTTATTTCTAACAGGTTTCTAGAG
 CGACTGTTTGAGCGCATATAAAGAAAAATAACATCATTTGGAGGAGGAAAGATGCGCTACCTGCTGC
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 AGTCACCAAGCGCCAGCAGTACCAGGAGGCCCTGGACATGCTGCGCTGTGCCGAAGGACGAAAACA
 AGATGTTCTCTTTACCGGGCAATTTTAAATACCGCCCATAAAGTCAAGCATTCAAGGGGTGTTATAAT
 TCAACAGGTCAATGACGAAACAGATAATGAAGCCTCACCTGGAATGAAAACAATCCAAGTGTCTGAT
 AGTGTAATAGACCAGGAAACCTCTGTGGATGTCATTGAAGGTGACAGTGACTTTGAAAGGCTGAGACTT
 CCAGGGAACTCTGTTGTCTGAGCACATCACTGTCCCATCTGGTCCATTTCCCGAGCATCAATGGTGGCAG
 TAATCATGGTAAGGAATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGAC

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

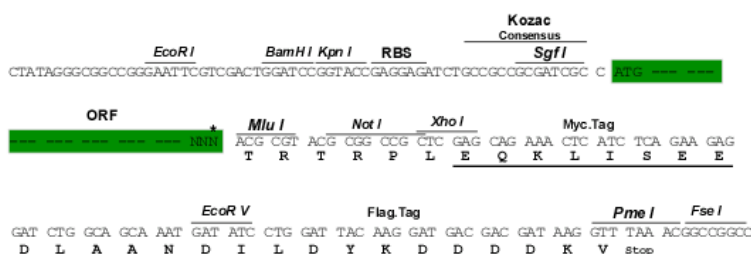
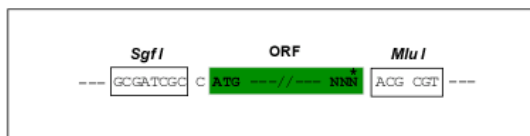
MDGSRVRVTSVLPRYSPPCLFTGHLSTKSNAFCTDSSSLRLSTLQLVKNHMAIHYNKILSAKAAVDCSI
PVSVNTSIKYADQQRREKLKELARCEKEFKLSKAMQTSKMNKFFVNSLQKVPNYTRNGAEDKIAPL
PSQGQNLAWDSTQDGILQQSSERASCKLSTEFSPDSKIYSDEEELLYLSFMENVTDIILKGLFSNRFLE
RLFERHIKKKNHLEEGKMRYLLHGLKVDLGCISEDPKQKHFRMLNQLHFQKALISRENEFVSDEETV
SHHERQQYQEALDMLSAVPKDENKMSLPGELIPAHKVKHSEGVIIQQVNDETDNEASPPWNNNSVSD
SVIDQESVDVIEGDSDFERAETMSRELCLSTLSPSGPFGVINGGNSHGKELSTLRIMGMSIED

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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

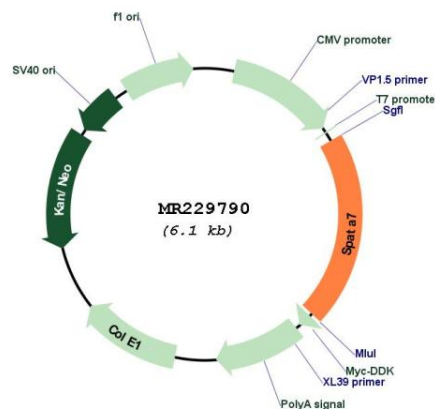
Locus ID: 104871

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]

Product images:



Circular map for MR229790