

Product datasheet for MC224039

Spata13 (NM_001033272) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Spata13 (NM_001033272) Mouse Untagged Clone
Tag: Tag Free
Symbol: Spata13
Synonyms: C79050; ESTM11; mFLJ00298; X83327
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224039 representing NM_001033272
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACAACAGCCCAGGATGGCCATGGGCAAGGTGCCACAGCCACTTGTTTCAGCCTCCAACCCAAAGGCC
 CGAAAATGGTGACATCCTCAGCATGTCAGAATGGAGGCTGAAAAGCAGCCCCAGCAGTGATCCCGAAGC
 CGGGAAACCAGGCTCAGCCCATCGAAGCTGGTACGTCTTCTCTGGTAGTCGGAAGAGGATGAATTCG
 AACTCTGAGAGACCTCGCTCAGTCGTCTTGTGGGAATTCCTCCACGTGGAATGCCTGGCCTCCTTCC
 GTAAAATGGGCTCCTTTAAAAGACTAAAATCTTCTGTCCTTCAAGGAATTCAGAACCAGGGAGGGGCGAGA
 AGTTTCCAAGGAGGAGCCTACAGGAGACCCAGGAAGGGCTGCTCCCAATGGCACCGTTGCCATCCTGGGA
 AAGGGCTGGGCAGGTGTACATCCTTGGGCCCTGTAGGAGATGGCGCCGGTCTGACTGCTCAGACCCCG
 AGGACACGGAGGACGCCCTCCAGAGGAGCACACCCGTTCTCGCAGCATCCGAGGGCCTATGGCCTGGG
 CCGCATCAGCTGCTGGACCTGGGGCGGCAGCCAGTCCCGGAGCCCGCGTGTGTGAGATCCAAGTTCGA
 GACCTGAACCCAGCAGGGCTGTGCCTTGCCACGCAGAAGCAAGAGCATCGACAGCTTGAGCCTCCTGA
 AGAGCTCCTTCAAGCGCAAGTCTGCATCCAACCTCACGGAAGTGCAGGGTGCAGGCAAGGAGGAGGAGG
 AACCTTGAGCAGCTTCTTACAGACCCGAGAAGCCGGTGGCTCAGAGAGAAGAACCAGACGCTGGAGG
 AGCCCCATCCGGGCAAGGACTTCGACAGAGTCTGAGACTGGTGAAGCAATGTCAAGGATGCGGCTTGGGA
 AGAGGGAGGCCCCAGGAGTGCAGCCCCTGGCCCTGGTCCCGGTCTCGGGGATGAGAACCCACTACTTGC
 GCCACGAAGCAAGCTACACGATGACTACTCGCGTCTGACTAGCAGCAGCGTGGAGCCAGATGCCAGGCGT
 GCGGCTCACCCTGTATCCCTGCACCATGCACCACTGCGCCCTACGCAGCTCCAGAGCCCCACTTAGATG
 TGGATACTGCAGTATCCCTGGAACTAAAAGTGTCTAGCCACTGGGAAATGATGGACCTCGTGCCAG
 CAGTCCCTACCAATCCCACGGACCCAGAAGGGTTGAGCCAAGGCTCCAGTGAGGCACATACTGGCAGC
 CAACATCCTTTAATCCCGTGCAGTTCCTCACTCTGAGACCTACCACACCCAAAGCCCAAGGCCCTC
 AGAGCCCAGGGAGTACTAAGTGCCCAAGTGTCTGAGTGTGCTGTCCCTCAGTTCAGCGGACAGTGAAGA
 GCGGACTGAGGATGCTTCGCACAGGCAACCCGGGACCCGTGTCCTCCAGGATACTGTCCTTAACGCTGCT
 GGTGATGTGGGGGAGAAAGCGGTGACAGCTATTTCCCGAGAATCTCGATGGAGCCACCCATCCAGAAG



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AGAAGAAGGAAGAGGTCCTGGTACTGAGGATGACTGGCCGCAGGGCTCAGCCCTGGAGGAGGAGCAGAA
 TGAGGCGCCTCGAATCTCCAGGAGGAGGTGGGGCTCGGGACGCCACCCGGCCACGACCACTGTCTGAC
 TATGGCCAGCTGGCCGGCAGAAGCTTGTCCATTCTGAAGATGCCATTGCTGCAGACCCTCCAGATGAGG
 ACCACGTGGACAGGATGCACCCAGCAAGTGTGACTACCACCAGCCAGGATCCATGCGCCCCCTCAGGCTC
 TTGCAGGGGAGGCCGAGAAGGCGACCTATATCTGTGATTGGAGGGGTGAGCTTCTATGGCAACACCCAG
 GTAGAGGATGTGGAGAACCTCTTGGTCCAACCAGCAGCCAGGCCCTCCTGTGCCTGCACACCAAGTCCAC
 CCTACAAGGCTGTGTCTGCCCGCCTCCGGCCCTCACCTTCTCTCAGAGCACTCCCATCGGGCTGGACCG
 CGTGGGGCGGCGACGGCAGATGAAAACATCCAATGTCTTTCAGATGGAGGTGCGGAGTCTTCGGCCTTA
 GTGGATGATAATGGTAGTGAGGAAGACTTCAGCTATGAGGAGCTCTGCCAGGCCAACCTCGGTACCTGC
 AGCCAGGAGGGGAACAGCTGGCCATCAATGAGCTCATCAGCGATGGCAGCGTGGTCTGTGCAGAAGCACT
 GTGGGACCATGTGACCATGGACGACCAGGAGCTGGGCTTCAAGGCTGGGGATGTCATCCAAGTCTGGAA
 GCTTCTAACAAAGGACTGGTGGTGGGGCCGGAATGAAGACAAGAGGCTGGTTCCTGCAAGCTTTGTTA
 GGCTTCGAGTCAATCAGGAGGAGCTGCCGAGAAGTGCAGCAGCTCCCATGGGGAAGAGCAGGATGAGGA
 CACCAGCAAAGCCCGCCACAAGCACCCAGAGAGCCAGCAGCAGATGCGGACCAACGTATCCAGGAGATA
 ATGAACACCGAGCGAGTGTATATCAAGCACCTGAAGGACATCTGCGAGGGCTATATCCGACAGTGTGTA
 AGCACACGGGAATGTTACCGGTTGCGCAGCTAGCCACTATTTTTGGAAACATTGAAGACATTTACAATT
 CCAAAGAAAGTTTCTGAAAGACCTTGAGAAACAGTACAACAAAGAGGAACCTCACTTGAGTGAAATAGGA
 TCCTGCTTTCTTGAGACCAAGAGGGCTTCGCCATCTACTCTGAGTACTGCAACAACCCAGGCGCCT
 GTGTGGAGCTGTCCAACCTCATGAAACACAGCAAGTACCGGCACTTCTTCGAGGCTGCCGCTGTCCA
 GCAGATGATCGACATCGCCCTGGACGGCTTCTCCTCACGCTGTGCAGAAGATCTGCAAAATACCCGCTG
 CAGCTGGCTGAGCTGCTCAAGTACACCACAGGAGCAGGCGATTACAACAATAAAAGGCAGCCTATG
 AAGCCATGAAGAACGTGGCTGCTTGTATCAATGAACGCAAGCGCAAGCTGGAGAGCATCGACAAGATCGC
 CCGCTGGCAGGTGTCCATCGTAGGCTGGGAGGGCCTGGACATTTAGACCGAAGCTCTGAGTTGATTCAT
 TCCGGAGAGCTGACCAAAATCACCAGGCAGGGCAAGAGCCAGCAACGCATCTTCTCCTTTTCGACCACC
 AGCTGGTGTCTGCAAGAAGGACCTGCTGCGCAGGGACATGCTATACTACAAGGGCCGATGGACATGGA
 CGAGGTAGAGCTTGTGGACGTGGAGGATGGGCGGGACAAAGACTGGAGCCTCAGCCTGCGGAATGCCTTC
 AAGCTGGTCAGCAAAGCCACGGACGAGGTCATCTGTTCTGCGCCAGAAAGCAAGAAGACAAGGCCAGGT
 GGCTGCAGGCCTATGCGGACGAGAGGGCGGGTGCAGGAGGACCAGCAGATGGGTATGGAATCCAGAA
 AATCAGAAGAACTCGCCATGTTGAACGCTCAGAAGGCAGGACATGGGAAATCTAAAGGCTACAACAGC
 TGTCCTCGTGGCCCAACCACAGACCTGCCGCCCTTACCAGCGCCACATCACTGTGCCACCAGCA
 TCCCGCAGCAGCAGGTCTTTCCTTGGCTGAGCCCAAGAGGAAGCCATCGATATTCTGGCACACTTTCCA
 CAAACTACCCCTTCCGAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001033272

Insert Size:

3735 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).

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_001033272.2](#), [NP_001028444.1](#)

RefSeq Size: 7557 bp

RefSeq ORF: 3735 bp

Locus ID: 219140

UniProt ID: [Q5DU57](#)

Cytogenetics: 14 31.77 cM

Gene Summary: Acts as guanine nucleotide exchange factor (GEF) for RHOA, RAC1 and CDC42 GTPases. Regulates cell migration and adhesion assembly and disassembly through a RAC1, PI3K, RHOA and AKT1-dependent mechanism. Increases both RAC1 and CDC42 activity, but decreases the amount of active RHOA (By similarity). Required for MMP9 up-regulation via the JNK signaling pathway in colorectal tumor cells. Involved in tumor angiogenesis and may play a role in intestinal adenoma formation and tumor progression.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.