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Product datasheet for MC214976

Spag8 (NM_001007463) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spag8 (NM_001007463) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Spag8
Synonyms:	MH-SPAG8; SMP-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC214976 representing NM_001007463 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGACCACCGAGTCTACAGAGGGGTCTTTGTCGCGATCTTGTGATGTACAGCCCAGCTCCGAAAGAC TAGATACCCCTTCAGAACCTGTTCCTTCTTCGAGTAGTAGTCCTAGGTCTACTGCCCCTGCCGAGGCTCC GGCGCAGTACTCTGTGCTGACAGAGCCCTCTTCTGACAGTCTTTACGGGGCACCCTGCCCTCCAGCCCAT CATAGAGGCCATGGGTTTGGCTTTCAGCCCTTCTATGTTTCTTGTATTCCTCAGGATCCCTGTAATATGG CAGACCTCAGCTCCAGGGCTGATCCTACCTCTTCTTATCCTTGTCATAGCTCTGTGCATGGCTCTGGCTC TGGCACTTGTGGTCTTGGCCAGAGCTCTGAGCCTAGCCAGGGCTCCGGGCCCACCTCTGGGCCTGCTCCT GCCTCTGTACCTAGTCTTGTCTCTGGACCTGATTCTGCCTCTGGACCTGATTCTTCTGCCTCGGGACCTG CTCTTGCCTCTGGACCTGGTCCTGCTGACCCTGGACAGGGTCCTAAGTTCAGCACCTGCATTCCTCAAGG GTACAGATGCATCCCAGTTGACCTGGCCCCTGATTATAATGCATGGTGTCAGCACTTACACTGGAAGCCA CAACGCTCCTGGGAACCTCTGCAAGTCTCAGAACCTGGAGTGAGAGGGCCATATAAACCTCCAGAACCTG GAGCACTCGGGCCATGTGAGCCATGTGAGCCATGTGAACCTCCAGAGGCTGAATCTGAGGAAACTCTCTG TAAAGCACGGCCACGTGGCCAGTGCCTCCTCTACAACTGGGAGGAAGAGAGAGCCACCAACCAGCTGGAT CAAATCCCTCCATTGCAAGATGGCTCTGAGAGTTACTTCTTCCGACACGGACACCAGGGTCTGCTGACCA CGCAGCCCCAGTCACCCATGTCTTCTAGCACCACCCAGAGAGACTCATACCAGCTCCCAAGACACATCTG TCAGCCACTTCGAGGGAAGCGTGAAGCCATGCTGGAGATGCTCCTGCGACACCAGATCTGTAAAGAGGTG CAGGCAGAGCAGGAACCTGCAAGGAAGCTCTTTGAGACCGAGTCGGTAACACACCATGACTACAGAGTGG AGCTGGTACGAGCAGCGCCTCCTGCCTCAACAAAGCCTCATGATTACCGCCAGGAGCAGCCTGAAACCTT CTGGATTCAGCGGGCAGCACGGCTACCGGTGTGTGTGGGCGACTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001007463
Insert Size:	1236 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_001007463.2, NP_001007464.1
RefSeq Size:	1342 bp
RefSeq ORF:	1236 bp
Locus ID:	433700
UniProt ID:	Q3V0Q6
Cytogenetics:	4 A5
Gene Summary:	Plays a role in spermatogenesis by enhancing the binding of CREM isoform tau to its coactivator FHL5 and increasing the FHL5-regulated transcriptional activation of CREM isoform tau (PubMed:20488182). Involved in the acrosome reaction and in binding of sperm to the zona pellucida (PubMed:17187156). Plays a role in regulation of the cell cycle by controlling progression through the G2/M phase, possibly by delaying the activation of CDK1 which is required for entry into mitosis (By similarity). May play a role in fertility and microtubule formation through interaction with RANBP9 (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) contains a 3' terminal exon that extends past a splice site used in variant 1. This results in a novel 3' coding region and 3' UTR, compared to variant 1. It encodes isoform 2, which is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.