

Product datasheet for MC202038

Asz1 (NM_023729) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Asz1
Synonyms:	4933400N19Rik; Gasz; ORF3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC058859 sequence for NM_023729
GACAAGAGGTAATCCGGAAGAACAGCTTGGAGCCATGGCAGCGGGCACACTGAGGGGCTTGGCAGTGGCT
GGTGGAGGCGAGAGCAGCGATAGTGAGGATGACGGCTGGGATATTGGGTATCTCGACCGGTCTCTCAGA
AATTAAGAGGCTTTACCCGTTGAAGAGAAGAACGAGACATTTAAGAAAGCACTGACCACCGGAGATAT
TTCTTTAGTTAAAGAACTCCTGGATTCTGGCATTAAATGTGGACTCCAGCTTCCGCTATGGATGGACCCCT
CTTATGTATGCCGCTAGTGTGGCCAAATGCAGAGCTGGTTCGCTTCTTTTGGACAGAGGTGCTAATGCCA
GCTTTGATAAGGACAAGTTAACCATTTTGATAAGTGCTTGTTCGCTCGTGGCTCAGAGGAGCAAGTCTT
GAAATGTGTAGAGTTACTACTTTCAAGAAATGCGGACCCAAATACTGCTTGTAGGAGACTTATGACGCCA
ATCATGTATGCTGCCCAGAGCGGTCACTACAGGTTGTGGCTCTGCTTGTGGCTCACGGAGCCGAAGTTA
ACGCCCAGGATGAGAATGGTTATACTGCCTTAACATGGGCAGCACGGCAGGGTCATAAAATGTAATTCT
GAAGTTGCTTGAAGTGGGAGCTAATAAATGCTACAGACCAAAGATGGCAGAACCAAGCGAGATTGCA
AAAAGAAATAAACATCTTGAGATCTTCAACTTTCTTTCTGACTCTAAATCCATTGGAAGGAAACTTC
AGCAGCTAGCCAAAGAAGAGACCAATTTGAACTGTTGGCCACAGATTCTGATAAAGAAAAAGATCACAT
ATTTAGCCCGTATACAGCGTTTGGAGATCTGGAATATTTTTACATGGCCTTGGACTTGAACATATGACA
GACTCATTAAAGGAAAAGGATATACTTTAAGACACCTTCTGACCATGAAGAAAGACGAGCTTACAAAGA
ATGGAATTGCTAGTAAAGATCAACAGAAAATCTTGGCTGCTCTTAAGGAACTAGAAGTAGAAGAGATAAA
TTTTGGAAATTACCTGAAGTGACAAAGTTGGAATCAGTGGTGATGAGTTCCTCAACTTTCTTTTGAAA
TTAAATAAGCAGTGTGGCCATTTAATCACAGCCGTGCAGAATATCATTACCGAGTTGCCTGTAATTTCTC
ACAAGATAGTACTGGAGTGGGCTTCTCCAGAAATTTTACTTCAGTTTGTGAAGAACTGGTTAGTAATGT
TGAAGATTTGAATGAAGAGGTCTGCAGACTGAAGGAGTTGATTGAGAAGATGCAGAATGAGCGGGAAT
GACCCAACTCATATCCCACTAGTAGAAGAGGTCTCTACATGGAAGACTCGAATTCTGAAGAGGTGAGCAG
TTACAGTGTGTGATTGGGCTGCTGCTTTTCATCGGCAAGCTAACTTTGCAGAGAAAATAATAGTACTA
TTTATTTAAGTTCTGTATGTCCATCTTCTCTGAGTGTCTAGCATGGCTTCTAATCATTTGTGGTACAG
CATAGCTTTATTTCTGCTGCTACTCCAAAGGAACAATTATGATACTATAAAGTACAGTTTCTTTTAA
AA

Restriction Sites: RsrII-NotI



ACCN:	NM_023729
Insert Size:	1428 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC058859</u> , <u>AAH58859</u>
RefSeq Size:	1674 bp
RefSeq ORF:	1428 bp
Locus ID:	74068
UniProt ID:	<u>Q8VD46</u>
Cytogenetics:	6 A2
Gene Summary:	Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Its association with pi-bodies suggests a participation in the primary piRNAs metabolic process. Required prior to the pachytene stage to facilitate the production of multiple types of piRNAs, including those associated with repeats involved in regulation of retrotransposons. May act by mediating protein-protein interactions during germ cell maturation.[UniProtKB/Swiss-Prot Function]