

Product datasheet for MC212618

AstI (NM_172539) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AstI (NM_172539) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	AstI
Synonyms:	7420700F21; C87576; Sas1b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC212618 representing NM_172539 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGAGCACCTCAGCATCCAGATGTTCTGGAGTCTGCAGTACCAAGTGTCCAGAAGGCTTCACTCCTG
AGGGAAGCCCGGTATTTAGGACAAGGACATCCCCGCAATTAACCAAGGGCTCATCTCAGAGGAGACCCC
AGAAAGCAGCTTCTGGTAGAAGGGGACATTATCCGGCCAAGCCCTTTCCGATTGTTGTCAGTGACCAAT
AATAAATGGCCCAAGGGGTTGGTGGCTTTGTGGAGATCCCTTCTGCTTTCCAGAAAGTATGATGAAC
TCAGCCCGCCGGTCAATTATGGATGCCTTTGCTGAGTTTGAACGTTTACATGCATCCGGTTTGTTGCCTA
CCATGGTCAGAGAGACTTTGTTCCATTCTTCTATGGCGGGTGTTCCTGTTGGTGTGGGACGCAGTGGA
GGGATGCAGGTGGTGTCTTGGCACCCACTTGTCTCCGGAAGGGCCGAGGCATTGTCCTACATGAGCTCA
TGCACGTAATGGCTTCTGGCATGAGCATTACGGGCAGATCGGGACCGCTACATCCAAGTCAACTGGAA
CGAGATCTCCCGGGCTTTGAAATCAACTTCATCAAGTCACGGAGTACCAATATGTTAGTTCCTATGAC
TACTCATCTGTGATGCATTATGGGAGATTTGCCTTCCAGTGGCGTGGGACGCCACCATCATACCCTCT
GGACCTCCAGTGTTCACATTGGCCAGCGATGGAACCTGAGTACCTCAGATATCACCCGGGCTGCAGGCT
GTATAACTGCAGCCGGAGTGTCCCTGACTCCACGGGAGAGGGTTTGAGGCCAGAGTGATGGAAGCAGC
CTCACCCCTGCCTCTATATCACGTCTACAAGACTTCTCGAGGCACTGTGAGAGGAATCTGGAAGCTCTG
CCCCTAGTGGCTCCAGGACTGGAGGCCAGAGTATTGCCGGCTTGGTAACAGCCAGCAAGGATGGGAGCA
TCCTCCTCAGAGCACATTCAGTGTGGGAGCCTTGGCAAGACCCTCAGATGCTAGCCGATGCTTCAAAA
TCGGGGCTGGAGCAGGTGCAGACAGCTTGTCTTAGAGCAGTTCAGCTAGCCAGGCCCCCACTGTAC
CTCTTGCTCTATTTCCAGAAGCCAGAGACAAGCCAGCACCTATCCAAGATGCCTTTGAGAGGCTAGCTCC
ACTTCCAGGAGGCTGTGCACCTGGAAGTACATTAGAGAGGTGCCAGAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_172539
Insert Size:	1245 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:	<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:	<u>NM_172539.3</u> , <u>NP_766127.1</u>
RefSeq Size:	2392 bp
RefSeq ORF:	1245 bp
Locus ID:	215095
UniProt ID:	<u>Q6HA09</u>
Cytogenetics:	2 F1
Gene Summary:	<p>Oocyte-specific oolemmal receptor involved in sperm and egg adhesion and fertilization. Plays a role in the polyspermy inhibition. Probably acts as a protease for the post-fertilization cleavage of ZP2. Cleaves the sperm-binding ZP2 at the surface of the zona pellucida after fertilization and cortical granule exocytosis, rendering the zona pellucida unable to support further sperm binding.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon, and it thus differs in its 5' UTR and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a.</p>