

Product datasheet for **MG206936**

AstI (BC064729) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AstI (BC064729) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AstI
Synonyms:	7420700F21, Ovastacin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206936 representing BC064729 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGTATCATGGGAAGCCTGTGGCCTTGATATTAAGTATGCTCTCCTTGCTAGGTTTGAGCATGGGAG
 CACCTCAGCATCCAGATGTTCTGGAGTCTGCAGTACAGTGTTCAGAAAGGCTTCACTCCTGAGGGAAG
 CCCGGTATTTAGGACAAGGACATCCCGCAATTAACCAAGGGCTCATCTCAGAGGAGACCCAGAAAGC
 AGCTTCTGGTAGAAGGGGACATTATCCGGCAAGCCCTTCCGATTGTTGTGAGTACCAATAATAAAT
 GGCCCAAGGGCGTTGGTGGCTTTGTGGAGATCCCTTCTGCTTTCCAGAAAGTATGATGAAGTACAGCCG
 CCGGGTCATTATGGATGCCTTTGCTGAGTTTGAACGTTTCACATGCATCCGGTTTGTTCCTACCATGGT
 CAGAGAGACTTTGTTTCCATTCTTCTATGGCGGGGTGTTTCTCTGGTGTGGGACGAGTGGAGGGATGC
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 ACTTGGCTTCTGGCATGAGCATTACGGGCAGATCGGGACCGCTACATCCAAGTCAACTGGAACGAGATC
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 CTGTGATGCATTATGGGAGATTTGCCTTCAGTGGCGTGGGACGCCACCATCATACCACTCTGGACCTC
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 CAGAGCACATTAGTGTGGGAGCCTTGGCAAGACCACCTCAGATGCTAGCCGATGCTTAAAAATCGGGG
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 TCTATTTCCAGAAGCCAGAGACAAGCCAGCACCTATCCAAGATGCCTTTGAGAGGCTAGCTCCACTTCCA
 GGAGGCTGTGCACCTGGAAGTCACATTAGAGAGGTGCCAGAGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG206936 representing BC064729
Red=Cloning site Green=Tags(s)

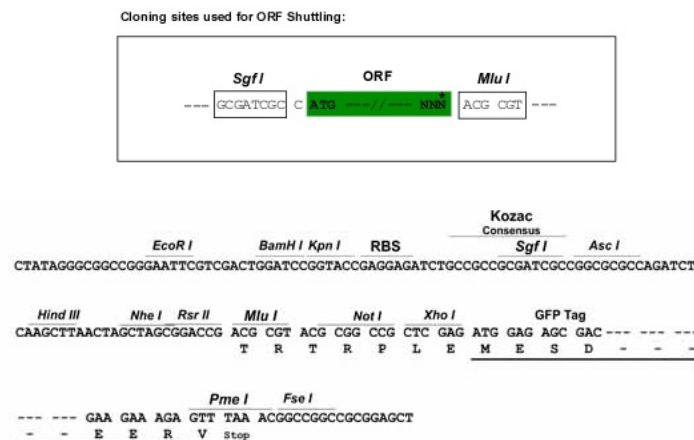
MGIMGSLWPWILTMLSLGLSMGAPSASRCSGVCSTSVPEGFTPEGSPVFQDKDIPAINQGLISEETPES
SFLVEGDIIRSPFRLLSVTNNKWPKGVGGFVEIPFLLSRKYDELRRVIMDAFAEFERFTCIIRFVAYHG
QRDFVSILPMAGCFSGVGRSGMQVVS LAPTCLRKGRGIVLHELMHVLGFWHEHSRADRDRIYQVNWNEI
LPGFEINFIKSRSTNMLVPYDYSSVMHYGRFAFSWRGQPTIIPLTSSVHIGQRWNLSTDITRVCRLYN
CSRSVPD SHGRGFEAQSDGSSLTPASISRLQRLLEALSEESGSSAPSGSRTGGQSIAGLGNSQQGWEHPP
QSTFSVGALARPPQMLADASKSGPGAGADSLSEQFQLAQAPTVPLALFPEARDKPAPIQDAFERLAPLP
GGCAPGSHIREVPRD

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC064729

ORF Size: 1305 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC064729](#), [AAH64729](#)

RefSeq Size: 2249 bp

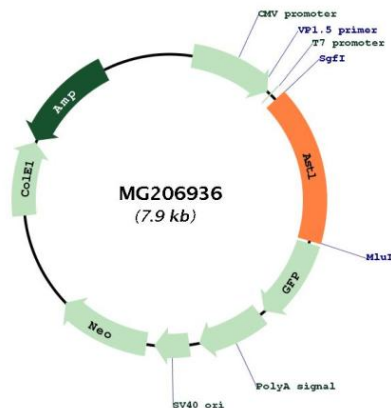
RefSeq ORF: 1307 bp

Locus ID: 215095

Cytogenetics: 2 F1

Gene Summary: 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]

Product images:



Circular map for MG206936