

Product datasheet for **MG209395**

Aste1 (BC098471) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aste1 (BC098471) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aste1
Synonyms:	1100001A21Rik; AV006403
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209395 representing BC098471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTATTCTCTCTTCCACCGACTTTGCTTCAATTCTGACTTGGAGCTCAGATGGAGGATGTGACATTT
 CAGATAAAAAGCTGGCAACTTTGAAGGATCGAGCAAAAGAGAAGATCCAAGCAGCCCGTTCCCTTTCTCT
 TGGTGGGGGTGGGAATGTGTGCCCTTACTCATCCGAGAAGTGTTACATACAGTTTTGATCAGGCTTGAG
 GTATGTTTCGTACAGAGCTTTTCAAGCAGATCGGGACATTATGACACTTGCCAATCACTGGAATTGTC
 CTGTGCTATCATCGGATAGTGACTTTTGCATTTTGTGACTTGAGAAGTGGGTTTTGCTCACTGAATAGCTA
 CCAGTGGAGAAATCTGAACACTATTAAGATACACAAGATTACTACATCCCGCCAGAAGCTTTCCCTC
 AATGCATTCTGCCATTACTTCAACAACATGAACAAAGCTCTACTACCTCTCTTTCGGGTGCTGTGTGAA
 ATGACCATGTTAACCTGCCCATCATGGACACATTATAAGTAAAGTACGCTACCCCTTAGTTCTAAGGG
 GAGGAGATATACCGAGTCTGGGACTTCTGAAGTGGTGTCTATTTGATGACCCCACTGAAGCACTA
 GATAACGTTCTGAAGTCTCTCCCAAGAAGAGTCGAGAAAATGTTAAGGAACCTCTCTGCTGCTCCATGG
 AGGAGTACCAGCAGTCCCGGTGAAGCTGCAGGACTTCTTCCAGTATGGTAGTTATGTCTGTACGGACGC
 TTCGGATCTGGGTCTACCAGAGTGGGTGCTAGGAGCTCTGGCCAAAGGCCAGCTACCACCTTTTCATCAGT
 GATGCTTTGGTGTCCGAAGGACCTTTCTTACACACAGGTAGAAAACATGCAGCGGCCAAATGCTCACA
 GAATATCTCAGCCATCCGCCAAATCATCTATGGACTCCTTTGAATGGCCATCACACGCAGAAGATAT
 AGCCCAAGATACATTGCCTTCCAGCTTCTGGCTTTCAATGAAGTGAAGAAGATTGATACAAATATCAAA
 ACATCAACTGTTTATGCAAAGCAACTGCTCAAGGATCAATGTGACTTGAGCAAATGGCTGAGTCCCCT
 TGGCTAGGCGGCAGATGCTTCTCTTAGAAGCCCTGAAGGTCAAACAGGTTGCTCTGGAGTCCATCCCTAC
 TTTTCTGAAGTTGCCCATTTGCTGTGACTTGTACTGTTGTCAGTCCACAGAAGCCAAGGCAAAGCTCCAT
 CATCTGCAGGCCCTACTGCTGGGATGCTGAGGGAACCTTGCATGCCATCGTCAACAGCCCTGGCACTG
 AAGATCCACAGAGAGGTGGTGCCAAGATGTTGTATGAAGAATTATGCCAGGTGAAGGCACCCATGCGGCC
 GGGTCCAAGAGTGGATTTAGACACAGCGCACGTCTTCTGTGAGTGGCAGTCTGTCTCCAGATGGGTTA
 TATCTCAACCAGCTGCTGTCCACTCCTCTGCCAGAGCCAAACCTAACTTGGTTGTACAACGGAAGCTGG
 TCCACAGACTCTGCCAGCAACTGCCAGCATCTAGTTCTGTAGAAAGCCTCCTGAGTCTATGCTCTGAGGC
 AAAGCAACTTTATGGACATCTGTTCAATGCCACAAAATCATATGCCCCAGCTGAATTGTTCTTACAAAA
 ACTAAATCAAAATCAAAAAAAGAGGCAGAAGAAAAAGTTGCCAGCCTGGGAACCACTGCAGATGCCA
 AACACTGGTATGACAGAAGCAACCGTTTGGACCGTTAATGCCTGAAAGCTTGGAGGAGCATGTAGAGAA
 CTCAGAGCTTGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209395 representing BC098471
 Red=Cloning site Green=Tags(s)

MAILSSTDFASILTWSSDGGCDISDKKLATLKDRAKEIKQAARSLSLGGGNNVCPLLIREVFIQVLIRLE
 VCFVQSFSEADRDIMTLANHWNCPLVSSDSDFCIFDLRSGFCSLNSYQWRNLNTIKDTQDYIIPARSFSL
 NAFCHYFNNMNKALLPLFAVLCGNDHVNLPIMDTFISKVRLPLSSKGRRYHRVLGLLNWLSHFDDPTEAL
 DNVLKSLPKKSRENVKELLCCSMEEYQQSPVKLQDFQYGSYVCTDASDLGLPEWVLGALAKGQLPPFIS
 DALVLRRTFLHTQVENMQRPNHRISQPIRQIIYGLLLNGPSHAEDIAQNTLPSQLAFNEVERIDTNIK
 TSTVYAKQLLKDQCDLSKLAELPLARRQMLLLEALKVKQVVLESIPTFLKLPIAVTCYWLQSTEAKAKLH
 HLQALLGMLREPLHAIVNSPGTEDPQRGAKMLYEELCQVKAPMRPGPRVDLTAHVFCQWQSCLQMGL
 YLNQLLSTPLPEPNLTWLYNGSLVHRLCQQLPASSSVESLLSLCPEAKQLYGHLFNATKSYAPAEFLPK
 TKSKSKKKRQKKVASLGTADAKHWYDRSNRFGPLMPESLEEHHVENSELE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC098471

ORF Size: 1833 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: [BC098471](#), [AAH98471](#)

RefSeq Size: 2365 bp

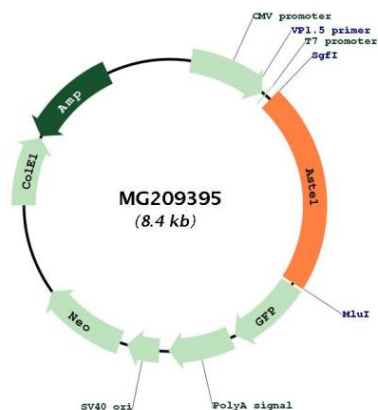
RefSeq ORF: 1835 bp

Locus ID: 66595

Cytogenetics: 9 F1

Gene Summary: Possible role in EGF receptor signaling.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209395