

Product datasheet for **MC222196**

Ago1 (NM_153403) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ago1 (NM_153403) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ago1
Synonyms:	Eif2c; Eif2c1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222196 representing NM_153403
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGCGGGACCCTCGGGAGCAGCGGCAGGTGCCTACCTGCCTCCCCTGCAGCAGGTGTTTCAGGCAC
 CCCGCCGGCTGGCATTGGCACTGTGGCAAACCAATCAAGCTTCTGGCCAATTACTTTGAGGTGGACAT
 TCCTAAGATTGACGTTTACCATTACGAGGTGGACATCAAGCCGGATAAGTGTCTCGCAGAGTCAACCGG
 GAGGTGGTGAATACATGGTCCAGCATTCAAACCGCAGATCTTTGGGGATCGCAAGCCTGTGTATGATG
 GAAAGAAGAATTTACACGGTCACAGCACTGCCATTGGCAATGAGAGGGTTGACTTTGAGGTGACAAAT
 CCCCAGGGAGGGGAAGGATAGAATTTTTAAGGTCTCCATCAAGTGGCTAGCCATTGTGAGCTGGCGCATG
 CTGCATGAAGCCTTGGTCAGTGGCCAGATCCCTGTGCCCTGGAGTCTGTGCAAGCCTGGATGTGGCCA
 TGAGGCACCTGGCATCTATGAGGTACACCCTGTGGGCCGCTCCTTCTTCTCACCCTGAGGGCTACTA
 CCACCCGCTGGGGGTGGGCGCAGGTCTGGTTCGGCTTTCACCAGTCTGTGCGCCCTGCCATGTGGAAG
 ATGATGCTCAACATTGATGTCTCAGCCACTGCCTTCTACAAAGCACAGCCAGTGATTGAGTTCATGTGTG
 AGGTCTGGACATCAGGAACATAGACGAACAACCAAGCCCTCACGGATTCCCAGCGTGTTCGGTTTAC
 CAAGGAGATAAAAGCCCTGAAGGTGGAAGTGACCCACTGTGGACAGATGAAGAGGAAATACCGCGTGTGT
 AATGTTACCCGCCGCCCTGCTAGCCATCAGACGTTCCCTTGCAGCTGGAGAGTGGACAGACTGTGGAGT
 GCACTGTGGCACAGTATTTCAAGCAGAAATATAACCTTCAGTCAAGTATCCTCACCTGCCCTGCCTACA
 AGTTGGCAAGAACAGAAGCATACTATTTGCCCTCGAGGTCTGTAACATTGTGGCTGGCAGCGGTGC
 ATTAAGAAGCTGACTGACAACAGACTTCAACCATGATAAAGGCTACAGCTAGGTGGCCCGCAGAGCAG
 AGGAGGAGATCAGCCGCTGATGAAGAATGCTAGCTACAACCTGGATCCCTACATCCAGGAATTTGGAAT
 CAAAGTGAAGGATGACATGACGGAGGTGACAGGAGTGTGCTGCCGGCGCCCATCTTGAGTATGGCGGC
 CGGAACCGGGCCATTGCTACGCCAACCAGGTGTCTGGGACATGCGCGGAAACAGTTCTACAATGGGA
 TTGAGATCAAAGTCTGGGCCATCGCTGCTTCGCACCCAGAAACAGTGTGAGAAAGAGGTGCTCAAGAA
 CTTACAGACCAGCTTCGGAAGATTTCAAGGATGCAGGGATGCCATCCAGGGTCCAGCCATGCTTCTGC
 AAATACGCACAGGGGGCAGACAGCGTGGAGCCATGTTCCGGCATCTCAAGAACCTACTCAGGACTGC
 AGCTCATTATCGTCATCTGCCCGGAAGACGCCAGTGTATGCTGAAGTGAACGTGTGGAGATACACT
 CTTGGGAATGGCAACACAGTGTGTGCAGGTGAAGAATGTGGTCAAGACGTCACCGCAGACTCTGTCCAAC
 CTCTGCCTCAAGATCAATGTCAAACCTCGGTGGCATTAAACAACATCCTAGTCCCACACCAGCGCTCTGCTG
 TTTTTCAACAGCCAGTGATTTTCTGGGAGCAGATGTTACACATCCCCAGCTGGGGATGGGAAGAAACC
 ATCTATCACAGCAGTGGTAGGCAGCATGGACGCACACCCAGCCGATACTGTGCCACCGTGCCTGTGCAG
 CGCCACGGCAGGAGATCATTGAAGACTTGTCTATATGGTGCAGGAGCTGCTTATCCAGTTCTACAAGT
 CCACCCGCTTCAAGCCCACCCGCATCATCTTCTACCGGACGGCGTCCCCGAGGGCCAGCTGCCCCAGAT
 TCTTCACTATGAGCTGCTTGCATTTCGAGATGCATGCATCAAACCTGAAAAAGACTACCAGCCTGGGATC
 ACATATATTGGTGCAGAAGCGCCATCACACCCGCTGTTCTGTGCTGACAAGAATGAGCGGATTGGGA
 AGAGTGGTAACATCCCAGCAGGGACCACTGTGGACACCAACATCACCCACCCATTTGAGTTCGACTTCTA
 TCTGTGCAGCCATGCAGGCATCCAGGGTACCAGCCGACCATCCATTATTATGCTCTTTGGGATGACAAC
 CGTTTACAGCAGATGAACTCCAGATCTTGACATACCAGCTGTGCCACACTTACGTACGATGCACACGTT
 CTGTCTCTATCCAGCACCTGCCTACTATGCTCGCTTGGTGGCTTTCGGGCACGATACCACCTGGTGGGA
 CAAGGAACATGACAGTGGAGAGGGGAGCCACATATCAGGGCAAAGCAATGGGCGAGACCCCGAGCCCTG
 GCCAAAGCTGTGCAGGTTACCAGGATACTCTACGCACCATGTACTTCGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_153403
Insert Size: 2574 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:	NM_153403.3 , NP_700452.2
RefSeq Size:	7255 bp
RefSeq ORF:	2574 bp
Locus ID:	236511
UniProt ID:	Q8CJG1
Cytogenetics:	4 D2.2
Gene Summary:	<p>This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigenic RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon. [provided by RefSeq, Nov 2015]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (1) results from translation termination at the upstream UGA stop codon, while the longer isoform (1x) results from UGA stop codon readthrough to the downstream UAG termination codon. This RefSeq represents the shorter isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>