

Product datasheet for **RN217268**

Ago1 (NM_001191765) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ago1 (NM_001191765) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ago1
Synonyms:	Eif2c1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217268 representing NM_001191765
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCGGGACCCTCGGGAGCAGCTGCAGGTGCTACCTGCCTCCCCTGCAGCAGGTGTTCCAGGCC
 CTCGCCGGCTGGCATCGGCACTGTGGCAAACCGATCAAGCTTCTGGCCAATTACTTTGAGGTGGACAT
 TCCTAAGATTGACGTCTACCATACGAGGTGGACATCAAGCCGGATAAGTGTCTCGCAGAGTCAACCGG
 GAGGTGGTGGAGTACATGGTCCAGCATTCAAACCGCAGATCTTTGGGGATCGCAAGCCTGTGTACGATG
 GAAAGAAGAACATTTACACAGTTACAGCACTGCCTATTGGCAATGAGAGGGTTGACTTTGAGGTGACCAT
 CCCTGGGAAGGGAAGGATAGAATTTTTAAGGTCTCCATCAAGTGGCTAGCCATCGTGAGCTGGCGCATG
 CTGCATGAAGCCTTGGTCAGTGGCCAGATCCCTGTGCCCTTGGAGTCCGTGCAAGCCCTGGATGTGGCCA
 TGAGGCATCTGGCATCTATGAGGTACACCCCTGTGGGCCCTCCTTCTTCTCACCCTGAGGGCTACTA
 CCACCCCTGGGGGTGGGCGCAGGTCTGGTTCGGCTTTCACCAGTCTGTGCGCCCTGCCATGTGGAAG
 ATGATGCTCAACATTGATGTCTCAGCCACTGCCTTCTACAAAGCACAGCCAGTGATTGAGTTCATGTGTG
 AGGTCTGGACATCAGGAACATAGATGAACAGCCCAAGCCCTCACGGATTTCCAGCGCGTTTCGGTTTAC
 CAAGGAGATAAAGGGCTGAAGGTGGAAGTGACCCACTGTGGACAGATGAAGAGGAAATACCGCGTGTGT
 AATGTTACCCCTCGCCCTGCTAGCCATCAGACGTTTCCCTTGCAGCTGGAGAGCGGACAGACCGTGGAGT
 GCACCGTGGCACAATATTTCAAGCAGAAATACAACCTTCAAGTCAAGTATCCTCACCTGCCTGCCTGCA
 AGTTGGCAAGAGCAGAAGCATACTATTTGCCCTCGAGGTCTGTAACATTGTGGCTGGCAGCGGTGC
 ATTAAGAAGCTGACTGACAACAGACTTCAACCATGATAAAGGCTACAGCTAGGTGGCCCGCAGACAG
 AGGAGGAGATCAGTCGCCTGATGAAGAAGCCAGCTACAACCTGGATCCCTACATCCAGGAATTTGGAAT
 CAAAGTGAAGGATGACATGACGGAGGTGACGGGGCGAGTGTGCCGGCGCCCATCTTGAGTACGGCGGC
 CGGAACCGGGCCATTGCTACACCAACCAAGGTGTCTGGGACATGCGTGGGAAACAGTTCTACAATGGGA
 TTGAGATCAAAGTCTGGGCCATCGCTGCTTCGCACCCCAAAAACAATGTCGAGAAGAGGTGCTCAAGAA
 CTTACGGACAGCTTCGGAAGATCTCAAGGATGCAGGGATGCCATCCAGGGTCCAGCCATGTTTCTGC
 AAATACGCACAGGGGGCGGACAGCGTGGAGCCCATGTTCCGGCATCTCAAGAATACCTACTCAGGACTGC
 AGCTCATTATTGTCATCTGCCGGGAAGACGCCGGTGTATGCTGAAGTGAAGCGTGTGGAGATACGCT
 CTTGGGAATGGCAGACAGTGTGTGCAGGTGAAGAATGTGGTCAAGACCTCACCTCAGACTCTGTCCAAC
 CTCTGCCTCAAGATCAATGTCAAACCTCGGTGGCATCAACAACATCCTTGTCCCACACCAGCGCTCTGCTG
 TTTTCAAACAGCCAGTGATTTTTCTGGGAGCAGAGCTTACACACCCCGGCTGGGGACGGGAAGAACC
 ATCTATCACAGCAGTGGTAGGCAGTATGGATGCACACCCAGCCGATACTGTGCCACTGTGCGTGTACAG
 CGTCCACGGCAGGAGATCATTGAGGACTTGTCTATATGGTGCGGGAGCTGCTCATCCAGTTCTACAAGT
 CCACCCGATTCAGGCCACCCGAATCATCTTCTACCGAGATGGGGTCCCTGAAGGCCAGCTGCCTCAGAT
 CCTTCACTATGAGCTGCTTGCCATTGAGATGCCTGCATCAAACCTGAAAGAGACTACCAGCCTGGGATC
 ACGTACATCGTGGTACAGAAGCGACATCACACCCGCTCTTTGTGCTGACAAGAATGAGCGGATTGGGA
 AGAGTGGTAACATCCCAGCTGGGACCACTGTGGACACCAACATCACTCACCCGTTTGAGTTTGACTTCTA
 CCTGTGCAGCCATGCAGGCATCCAGGGCACCAGCCGACCATCCATTATTATGTCCTTTGGGATGACAAC
 CGTTTTACAGCAGATGAGCTCCAGATCTTGACATACCAGCTGTGCCACACTTATGTACGATGCACACGTT
 CTGTCTCTATCCAGCACCTGCCTACTATGCCCGCTGGTGGCTTTCGGGCCGATACCACTGGTGGGA
 CAAGGAGCATGACAGTGGAGAGGGGAGCCACATATCTGGGAGAGCAATGGGCGAGACCCCGAGCCCTG
 GCCAAAGCCGTGCAGGTTACCAGGATACTCTACGCACCATGTACTTCGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001191765
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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001191765.2, NP_001178694.1</u>
RefSeq Size:	7378 bp
RefSeq ORF:	2574 bp
Locus ID:	313594
Cytogenetics:	5q36
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. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to a 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) 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>