

Product datasheet for **MR223226**

Ago1 (NM_153403) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR223226 representing NM_153403
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAGCGGGACCCTCGGGAGCAGCGGCAGGTGCCTACCTGCCTCCCCTGCAGCAGGTGTTTCAGGCAC
 CCCGCCGGCCTGGCATTGGCACTGTGGCAAACCAATCAAGCTTCTGGCCAATTACTTTGAGGTGGACAT
 TCCTAAGATTGACGTTTACCATTACGAGGTGGACATCAAGCCGGATAAGTGCCTCGCAGAGTCAACCGG
 GAGGTGGTGAATACATGGTCCAGCATTCAAACCGCAGATCTTTGGGGATCGCAAGCCTGTGTATGATG
 GAAAGAAGAATTTTACACGGTCACAGCACTGCCATTGGCAATGAGAGGGTTGACTTTGAGGTGACAAT
 CCCCAGGGAGGGGAAGGATAGAATTTTTAAGGTCTCCATCAAGTGGCTAGCCATTGTGAGCTGGCGCATG
 CTGCATGAAGCCTTGGTCAGTGGCCAGATCCCTGTGCCCTGGAGTCTGTGCAAGCCTGGATGTGGCCA
 TGAGGCACCTGGCATCTATGAGGTACACCCCTGTGGGCCGCTCCTTCTTCTCACCCTGAGGGCTACTA
 CCACCCGCTGGGGGTGGGCGCAGGTCTGGTTCGGCTTTCACCAGTCTGTGCGCCCTGCCATGTGGAAG
 ATGATGCTCAACATTGATGTCTCAGCCACTGCCTTCTACAAAGCACAGCCAGTGATTGAGTTCATGTGTG
 AGGTCCTGGACATCAGGAACATAGACGAACAACCAAGCCCTCACGGATTCCCAGCGTGTTCGGTTTAC
 CAAGGAGATAAAAGCCCTGAAGGTGGAAGTGACCCACTGTGGACAGATGAAGAGGAAATACCGCGTGTGT
 AATGTTACCCGCCGCCCTGCTAGCCATCAGACGTTCCCTTGCAGCTGGAGAGTGGACAGACTGTGGAGT
 GCACTGTGGCACAGTATTTCAAGCAGAAATATAACCTTCAGTCAAGTATCCTCACCTGCCCTGCCTACA
 AGTTGGCAAGAACAAGCAGATACCTATTTGCCCTCGAGGTCTGTAACATTGTGGCTGGCAGCGGTGC
 ATTAAGAAGCTGACTGACAACAGACTTCAACCATGATAAAGGCTACAGCTAGGTGGCCCCAGACAGAC
 AGGAGGAGATCAGCCGCTGATGAAGAATGCTAGCTACAACCTGGATCCCTACATCCAGGAATTTGGAAT
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 CGGAACCGGGCCATTGCTACGCCAACCAGGTGTCTGGGACATGCGCGGAAACAGTTCTACAATGGGA
 TTGAGATCAAAGTCTGGGCCATCGCTGCTTCGCACCCAGAAACAGTGTGAGAAGAGGTGCTCAAGAA
 CTTACAGACCAGCTTCGGAAGATTTCAAGGATGCAGGGATGCCCATCCAGGGTCCAGCCATGCTTCTGC
 AAATACGCACAGGGGGCAGACAGCGTGGAGCCCATGTTCCGGCATCTCAAGAACCTACTCAGGACTGC
 AGCTCATTATCGTCATCCTGCCCGGAAGACGCCAGTGTATGCTGAAGTGAACGTGTGGAGATACACT
 CTTGGGAATGGCAACACAGTGTGTGCAGGTGAAGAATGTGGTCAAGACGTCACCCGAGACTCTGTCCAAC
 CTCTGCCTCAAGATCAATGTCAAACCTCGGTGGCATTAAACAACATCCTAGTCCCACACCAGCGCTCTGCTG
 TTTTTCAACAGCCAGTGATTTTCCCTGGGAGCAGATGTTACACATCCCCAGCTGGGGATGGGAAGAACC
 ATCTATCACAGCAGTGGTAGGCAGCATGGACGCACACCCAGCCGATACTGTGCCACCGTGCCTGTGCAG
 CGCCACGGCAGGAGATCATTGAAGACTTGTCTATATGGTGCAGGAGCTGCTTATCCAGTTCTACAAGT
 CCACCCGCTTCAAGCCCACCCGCATCATCTTCTACCGGACGGCGTCCCCGAGGGCCAGCTGCCCCAGAT
 TCTTCACTATGAGCTGCTTGCATTTCGAGATGCATGCATCAAACCTGAAAAAGACTACCAGCCTGGGATC
 ACATATATTGGTGCAGAAGCGCCATCACACCCGCTGTTCTGTGCTGACAAGAATGAGCGGATTGGGA
 AGAGTGGTAACATCCCAGCAGGGACCACTGTGGACACCAACATCACCCACCCATTTGAGTTCGACTTCTA
 TCTGTGCAGCCATGCAGGCATCCAGGGTACCAGCCGACCATCCCATTATTATGCTCTTTGGGATGACAAC
 CGTTTACAGCAGATGAACTCCAGATCTTGACATACCAGCTGTGCCACACTTACGTACGATGCACACGTT
 CTGTCTATCCCAGCACCTGCCTACTATGCTCGCTTGGTGGCTTTCGGGCACGATACCACCTGGTGGGA
 CAAGGAACATGACAGTGGAGAGGGGAGCCACATATCAGGGCAAAGCAATGGGCGAGACCCAGGCCCTG
 GCCAAAGCTGTGCAGGTTACCAGGATACTCTACGCACCATGTACTTCGCT

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR223226 representing NM_153403
 Red=Cloning site Green=Tags(s)

MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIKPDKCPRRVNR
 EVVEYMQHFQIFGDRKPVYDGKKNITYVTALPIGNERVDFEVTIPGEGKDRIFKVSIKWLAIVSWRM
 LHEALVSGQIPVPLESVQALDVAMRHLASMRYPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWK
 MMLNIDVSATAFYKAQPVIEFMCEVLDIRNIDEQPKPLTDSQRVRFTEIKGLKVEVTHCGQMCRKRYRVC
 NVTRRPASHQTFPLQLESGQTVECTVAQYFKQYNLQLKYPHLPCLQVQGEQKHTYLPLEVCNIVAGQRC
 IKKLTDNQSTMIKATARSAPDRQEEISRLMKNASYNLDPYIQEFGIKVKDDMTEVTGRVLPAPILQYGG
 RNRAIATPNQGVWDMRGKQFYNGIEIKVWAIACFAPQKQCREEVLKNFTDQLRKISKDAGMPIQGQPCFC
 KYAQGADSVPEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDLLGMATQCVQKNVVKTSPTLSN
 LCLKINVKLGGINNILVPHQRSVAVFQQPVIFLGADVTHPPAGDGKKPSITAVVGSMDAHPSTRYCATVRVQ
 RPRQEIIEDLSYVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDYQPGI
 TYIVVQKRHHTRLFCADKNERIGKSGNIPAGTTVDNITHPFEDFYLCSHAGIQGTSRPSHYVYLWDDN
 RFTADELQILTYQLCHTYVRCRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNRDPQAL
 AKAVQVHQDTRLRTMYFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9035_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

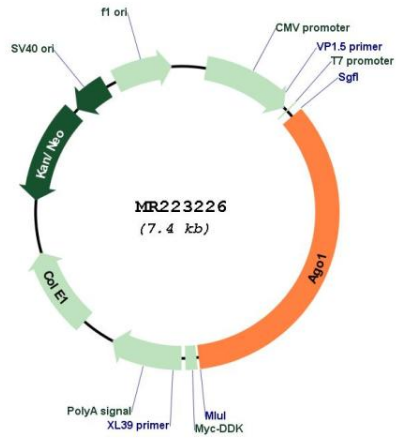
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_153403
ORF Size:	2571 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:	<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:	7065 bp
RefSeq ORF:	2574 bp
Locus ID:	236511
UniProt ID:	Q8CJG1
Cytogenetics:	4 D2.2
MW:	97.7 kDa
Gene Summary:	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 antisenRNA (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]

Product images:



Circular map for MR223226