

Product datasheet for **MC222183**

Ago3 (NM_153402) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ago3 (NM_153402) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ago3
Synonyms:	AW048688; C130014L07Rik; Eif2c3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222183 representing NM_153402
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAATCGGCTCCGCAGGACCCATTGGGGCCAGCCCTATTCATCGTGCCAGAAAGACCTGGGTATG
 GCACTATGGGCAAACCCATTAAACTGTTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCTA
 CCTCTATGAAGTTGACATCAAACAGACAAAGTGTCTCGAAGAGTGAACAGAGAAGTAGTTGATTCAATG
 GTTCAGCATTTTAAAGTGACTATATTTGGAGACCGTAGACCAGTTTATGATGGAAAAAGAAGCCTTTATA
 CAGCCAATCCACTTCTGTGGCAACCACTGGGGTAGATTTAGATGTTACATTACCTGGGGAAGGTGGAAA
 AGATCGACCTTTCAAGGTGTCAAGTTTGTGTCTCGAGTCACTGACCTACTACATGAAGCACTG
 GCTGGAGGGACTTTGCCTGAGCCACTGGAATTAGACAAGCCTGTCAGCACTAACCCCGTCCATGCCGTTG
 ACGTGGTGTCCGACATCTGCCCTATGAAATATACGCCTGTGGGGCGTTCCTTTTTCTCAGCTCCAGA
 AGGATATGACCACCTCTGGGAGGGGCGAGGAAGTATGGTTTGGATTCCATCAGTCTGTTCCGGCTGCC
 ATGTGGAAAAATGATGCTAAATATTGATGTTTCTGCCACTGCCTTTTACAAGCACAACTGTAATTCAGT
 TCATGTGTGAAGTTCTTGACATTCAACAATTGATGAACAACCCAGACCCCTGACTGATTCTCATCGGGT
 AAAATTCCTAAGGAGATAAAAGGTCTGAAAGTTGAAGTGACTCATTGTGGAACAATGAGACGGAATAC
 CGTGTGTTGTAATGTAACGAGAAGGCCTGCCAGCCACCAAACCTTTCTTTACAGCTAGAAAAATGGCCAAA
 CTGTGGAGAGGACTGTGGCTCAGTATTTAGAGAAAAAGTACACGCTGCAGCTGAAGTACCCACACCTTCC
 CTGCCTGCAAGTGGGCGAGGACAGAGCATACATACCTGCCACTAGAAGTCTGTAATATTGTGGCTGGG
 CAAAGGTGATCAAGAACTAACGGACAATCAGACTTCTACAATGATAAAGGCAACAGCAAGATCTGCAC
 CAGATAGACAAGAGGAAATAGCAGATTGGTAAGAAGTCAAAATGTAAGAACAGATCCATTTGTTGTTG
 GTTTTCAGTTTTAAAGTGGCGGATGAAATGGCCCATGTGACAGGACGTGACTTCCAGCACCTATGCTCCAG
 TACGGAGGACGGAACCGGACAGTACCCACACCCAGCCACGGAGTATGGGACATGCGAGGAAAAACAGTTCC
 ACACAGGAGTCGAAATCAAAATGTGGGCTATTGCTTGCTTTGCCACACAGAGGAGTGCAGAGAAGAAAT
 ACTAAAAGGTTTACAGACCAGCTTCGGAAGATTTCCAAGGATGCAGGGATGCCCATCCAGGGTCAGCCA
 TGCTTCTGCAAAACGCACAGGGGCGAGACAGCGTGGAGCCCATGTTCCGGCATCTCAAGAACACCTACT
 CAGGACTGCAGCTCATTATCGTCATCTGCCCGGAAGACACCAGTGTATGCGGAAGTGAACGTGTGGG
 AGATACACTTTTGGGTATGGCCACACAGTGTGTACAAGTCAAGAATGTAATAAAAAACATCTCCTCAAAT
 CTTTCAAACCTGTGCCTAAAGATCAATGTTAAACTTGGAGGAATCAATAATATTCTGTACCTCATCAA
 GACCTTCTGTGTTCCAGCAACCAGTGATCTTCTGGGCGCAGATGCACACACCCGCCTGCTGGTGACGG
 AAAAAAGCCCTCCATTGCTGCTGTTGTAGGTAGTATGGATGCCCATCCAAGCAGATACTGTGCCACAGTA
 AGAGTTACAGACCCCGACAGGAAATCATCCAGGACTTGGCTCCATGGTCCGGGAACTGCTCATCCAAT
 TTTATAAATCAACCCGATTCAAACCTACTCGTATAATCTTCTATCGGGATGGTGTTCAGAAGGACAGTT
 CAGACAGGTATTATATTAGACTACTGGCAATTCGAGAAGCCTGTATCAGTTTGGAAAAAGACTATCAA
 CCTGGAATAACCTACATTGTTGTTTCAGAAGAGACATCATACCGGTTGTTCTGTGCTGATAGGACAGAAA
 GGGTTGGAAGAAGCGGCAACATCCAGCTGGAACCACGGTGGATACCGACATTACTACCCATATGAATT
 CGACTTTTATCTGTAGCCATGCTGGAATACAGGGTACCAGCCGCTCTCACACTATCATGTTTTATGG
 GATGACAACCTTTTACTGCAGATGAACCTCAGCTGCTCACTTACCAGCTCTGTACACTTACGTACGCT
 GTACAAGATCTGTTTCTATCCCTGCACCAGCATATTACGCTCACCTGGTGGCATTAGAGCCAGATATCA
 TCTTGTGGACAAGGAACATGACAGTGTGAAGGAAGCCATGTTTCAGGACAGAGCAATGGGCGAGATCCA
 CAAGCTCTTGCCAAGGCTGTACAGATTACCAAGATACCTTACGCACAATGTACTTCGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_153402
Insert Size: 2583 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_153402.2 , NP_700451.2
RefSeq Size:	7635 bp
RefSeq ORF:	2583 bp
Locus ID:	214150
UniProt ID:	Q8CJF9
Cytogenetics:	4 D2.2
Gene Summary:	Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. Proposed to be involved in stabilization of small RNA derivatives (siRNA) derived from processed RNA polymerase III-transcribed Alu repeats containing a DR2 retinoic acid response element (RARE) in stem cells and in the subsequent siRNA-dependent degradation of a subset of RNA polymerase II-transcribed coding mRNAs by recruiting a mRNA decapping complex involving EDC4 (PubMed:19174539). Possesses RNA slicer activity but only on select RNAs bearing 5'- and 3'-flanking sequences to the region of guide-target complementarity (By similarity).[UniProtKB/Swiss-Prot Function]