

## Product datasheet for **MR221842**

### Ago3 (NM\_153402) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ago3 (NM_153402) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide  
Sequence:**

>MR221842 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAATCGGCTCCGCAGGACCCATTGGGGCCAGCCCTATTTCATCGTGCCAGAACACCTGGGTATG  
 GCACTATGGGCAAACCCATTAACTGTTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCTA  
 CCTCTATGAAGTTGACATCAAACAGACAAAGTGTCTCGAAGAGTGAACAGAGAAGTAGTTGATTCAATG  
 GTTCAGCATTTTAAAGTGACTATATTTGGAGACCGTAGACCAGTTTATGATGGAAAAAGAAGCCTTTATA  
 CAGCCAATCCACTTCTGTGGCAACCACTGGGGTAGATTTAGATGTTACATTACCTGGGGAAGGTGGAAA  
 AGATCGACCTTTCAAGGTGTGAGTCAAATTTGTGTCTCGAGTCACTGACCTACTACATGAAGCACTG  
 GCTGGAGGGACTTTGCCCTGAGCCACTGGAATTAGACAAGCCTGTCAGCACTAACCCCGTCCATGCCGTTG  
 ACGTGGTGTCCGACATCTGCCCTATGAAATATACGCCTGTGGGGCGTTCCTTTTTCTCAGCTCCAGA  
 AGGATATGACCACCTCTGGGAGGGGGCAGGGAAGTATGGTTTGGATTCCATCAGTCTGTTCCGGCTGCC  
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 AAAATTCCTAAGGAGATAAAAGGTCTGAAAGTTGAAGTGACTCATTGTGGAACAATGAGACGGAATAC  
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 CTGCCTGCAAGTGGGCGAGGAGCAGAAGCATACATACCTGCCACTAGAAGTCTGTAATATTGTGGCTGGG  
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 CAGATAGACAAGAGGAAATAGCAGATTGGTAAGAAGTCAAATTAATGAAACAGATCCATTTGTTGAGGA  
 GTTTTCAGTTTAAAGTGCGGGATGAAATGGCCCATGTGACAGGACGTGTACTTCCAGCACCTATGCTCCAG  
 TACGGAGGACGGAACCGGACAGTACCCACACCCAGCCACGGAGTATGGGACATGCGAGGAAAAACAGTTCC  
 ACACAGGAGTCGAAATCAAAATGTGGGCTATTGCTTGCTTTGCCACACAGAGGAGTGCAGAGAAGAAAT  
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 TGCTTCTGCAAAACGCACAGGGGGCAGACAGCGTGGAGCCCATGTTCCGGCATCTCAAGAACACCTACT  
 CAGGACTGCAGCTCATTATCGTCATCTGCCCGGAAGACACCAGTGTATGCGGAAGTGAACGTGTGGG  
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 CTTTCAAACCTTGTGCTAAAGATCAATGTTAACTTGGAGGAATCAATAATTTCTGTACCTCATCAA  
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 AAAAAAGCCCTCCATTGCTGCTGTTGTAGGTAGTATGGATGCCCATCCAAGCAGATACTGTGCCACAGTA  
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 GGGTTGGAAGAAGCGGCAACATCCAGCTGGAACCACGGTGGATACCGACATTACTACCCATATGAATT  
 CGACTTTTATCTGTAGCCATGCTGGAATACAGGGTACCAGCCGCTCTTCACTATCATGTTTTATGG  
 GATGACAACTTCTTACTGCAGATGAACCTCAGCTGCTCACTTACCAGCTCTGTACACTTACGTACGCT  
 GTACAAGATCTGTTTCTATCCCTGCACCAGCATATTACGCTCACCTGGTGGCATTAGAGCCAGATATCA  
 TCTTGTGGACAAGGAACATGACAGTGTGAAGGAAGCCATGTTTCAGGACAGAGCAATGGGCGAGATCCA  
 CAAGCTCTTGCCAAGGCTGTACAGATTACCAAGATACCTTACGCACAATGTACTTCGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR221842 protein sequence  
 Red=Cloning site Green=Tags(s)

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MEIGSAGPIGAQPLFIVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLVEVDIKPKDCPRRVNREVVDSM
VQHFVKVTFGDRRPVYDGKRSLYANPLPVATTGVLDVTLPGEGGKDRPFKVSVKFVSRVSWHLLHEAL
AGGTLPELELDKPVSTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHLGGGREVWFGFHQSVRPA
MWKMLNIDVSATAFYKAQPVIQFMCEVLDIHNIDEQPRPLTDSHRVKFTEIKGLKVEVTHCGTMRKY
RVCNVTRRPASHQTFPLQLENGQTVERTVAQYFREKYTLQLKYPHLPCLQVQEQKHTYLPLEVCNIVAG
QRCIKKLTDNQSTMIKATARSAPDRQEEISRLVRSANYETDPFVQEFQFKVRDEMAHVTGRVLPAPMLQ
YGGRNRTVATPSHGVDMRGKQFHTGVEIKMWAIACFATQRQREEILKGFDTQLRKISKDAGMPIQQQP
CFCKYAQGADSVPEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQKVNVIKTSPT
LSNLCLKINVKLGGINNILVPHQRPSVFQQPVIIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSTRYCATV
RVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYELLAIAREACISLEKDYQ
PGITYIVVQKRHHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDYLCSHAGIQGTSRPSHYHVLW
DDNFFTADQLLTYQLCHTYVRCRTRSVSIPAPAYYHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDP
QALAKAVQIHQDTLRTMYFA
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

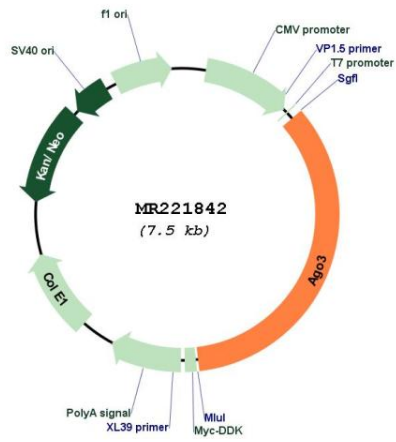
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_153402
<b>ORF Size:</b>	2583 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153402.1</a> , <a href="#">NM_153402.2</a> , <a href="#">NP_700451.2</a>
<b>RefSeq Size:</b>	7635 bp
<b>RefSeq ORF:</b>	2583 bp
<b>Locus ID:</b>	214150
<b>UniProt ID:</b>	<a href="#">Q8CJF9</a>
<b>Cytogenetics:</b>	4 D2.2
<b>MW:</b>	97.3 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR221842