

Product datasheet for **MG221842**

Ago3 (NM_153402) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ago3 (NM_153402) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ago3
Synonyms:	AW048688; C130014L07Rik; Eif2c3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221842 representing NM_153402
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAATCGGCTCCGCAGGACCCATTGGGGCCAGCCCTATTTCATCGTGCCAGAACACCTGGGTATG
 GCACTATGGGCAAACCCATTAACTGTTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCTA
 CCTCTATGAAGTTGACATCAAACAGACAAAGTGTCTCGAAGAGTGAACAGAGAAGTAGTTGATTCAATG
 GTTCAGCATTTTAAAGTGACTATATTTGGAGACCGTAGACCAGTTTATGATGGAAAAAGAAGCCTTTATA
 CAGCCAACTCCACTTCTGTGGCAACCACTGGGGTAGATTTAGATGTTACATTACCTGGGGAAGGTGGAAA
 AGATCGACCTTTCAAGGTGTGAGTCAAATTTGTGTCTCGAGTCACTGACCTACTACATGAAGCACTG
 GCTGGAGGGACTTTGCCTGAGCCACTGGAATTAGACAAGCCTGTCAGCACTAACCCCGTCCATGCCGTTG
 ACGTGGTGTCCGACATCTGCCCTATGAAATATACGCCTGTGGGGCGTTCCTTTTTCTCAGCTCCAGA
 AGGATATGACCACCTCTGGGAGGGGGCAGGGAAGTATGGTTTGGATTCCATCAGTCTGTTCCGGCTGCC
 ATGTGGAAAAATGATGCTAAATATTGATGTTTCTGCCACTGCCTTTTACAAGCACAACTGTAATTCAGT
 TCATGTGTGAAGTTCTTGACATTCAACAATTGATGAACAACCCAGACCCCTGACTGATTCTCATCGGGT
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 CGTGTGTTGTAATGTAACGAGAAGGCCTGCCAGCCACCAAACCTTTCTTTACAGCTAGAAAAATGGCCAAA
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 CAAAGGTGATCAAGAACTAACGGACAATCAGACTTCTACAATGATAAAGGCAACAGCAAGATCTGCAC
 CAGATAGACAAGAGGAAATAGCAGATTGGTAAGAAGTCAAATTAATGAAACAGATCCATTTGTTGTTGTT
 GTTTCAGTTTAAAGTGGCGGATGAAATGGCCCATGTGACAGGACGTGACTTCCAGCACCTATGCTCCAG
 TACGGAGGACGGAACCGGACAGTAGCCACACCCAGCCACGGAGTATGGGACATGCGAGGAAAAACAGTTCC
 ACACAGGAGTCAAAATCAAAATGTGGGCTATTGCTTGCTTTGCCACACAGAGGAGTGCAGAGAAGAAAT
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 TGCTTCTGCAAAACGCACAGGGGGCAGACAGCGTGGAGCCCATGTTCCGGCATCTCAAGAACACCTACT
 CAGGACTGCAGCTCATTATCGTCATCCTGCCCGGAAGACACCAGTGTATGCGGAAGTAAAACGTGTGGG
 AGATACACTTTTGGGTATGGCCACACAGTGTGTACAAGTCAAGAATGTAATAAAAAACATCTCCTCAAAT
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 GACCTTCTGTGTTCCAGCAACCAGTGTCTTCTGGGCGCAGATGCACACACCCGCCTGCTGGTACGG
 AAAAAAGCCCTCCATTGCTGCTGTTGTAGTGTATGGATGCCCATCCAAGCAGATACTGTGCCACAGTA
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 TTTATAAATCAACCCGATTCAAACCTACTCGTATAATCTTCTATCGGGATGGTGTTCAGAAGGACAGTT
 CAGACAGGTATTATATTAGACTACTGGCAATTCGAGAAGCCTGTATCAGTTTGGAAAAAGACTATCAA
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 GGGTTGGAAGAAGCGGCAACATCCAGCTGGAACCACGGTGGATACCGACATTACTACCCATATGAATT
 CGACTTTTATCTGTAGCCATGCTGGAATACAGGGTACCAGCCGCTCTTCACTATCATGTTTTATGG
 GATGACAACTTCTTACTGCAGATGAACTTCAGCTGCTCACTTACCAGCTCTGTACACTTACGTACGCT
 GTACAAGATCTGTTTCTATCCCTGCACCAGCATATTACGCTCACCTGGTGGCATTAGAGCCAGATATCA
 TCTTGTGGACAAGGAACATGACAGTGTGAAGGAAGCCATGTTTCAGGACAGAGCAATGGGCGAGATCCA
 CAAGCTCTTGCAAGGCTGTACAGATTCACCAAGATACCTTACGCACAATGTAAGTTCGCT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG221842 representing NM_153402

Red=Cloning site Green=Tags(s)

MEIGSAGPIGAQPLFIVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSM
VQHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDTLPGEGGKDRPFKVSVKFVSRVSWHLLHEAL
AGGTLPEPELDPVSTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHLGGGREVWFGFHQSVRPA
MWKMLNIDVSATAFYKAQPVIQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRKY
RVCNVTRRPASHQTFPLQLENGQTVERTVAQYFREKYTLQLKYPHLPCLQVQEQKHTYLPLEVCNIVAG
QRCIKKLTDNQSTMIKATARSAPDRQEEISRLVRSANYETDPFVQEFQFKVRDEMAHVTGRVLPAPMLQ
YGGNRNRTVATPSHGVDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGFDTQLRKISKDAGMPIQGQP
CFCKYAQGADSVPEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQKNVIKTSPQT
LSNLCLKINVKLGGINNILVPHQRPSVFQQPVIIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSTRYCATV
RVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYELLAIREACISLEKDYQ
PGITYIVVQKRHHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDYLCSHAGIQGTSRPSHYHVLW
DDNFFTADQLLTYQLCHTYVRCRTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDP
QALAKAVQIHQDTLRTMYFA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

ACCN:	NM_153402
ORF Size:	2580 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_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]