

## Product datasheet for **MC222171**

### **Ago4 (NM\_153177) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ago4 (NM_153177) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ago4
Synonyms:	5730550L01Rik; AI481660; Eif2c4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC222171 representing NM\_153177  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGCGCTGGGACCCGGACCTCCAGCCAGCCTCTCCAGCCACCTCGGCGTCTGGCCTTGGAAACCG  
 TTGGGAAACCAATTCGACTGTTAGCCAATCATTTTCAGGTTGAGATCCCTAAAATAGATGTGTATCACTA  
 TGATGTGGATATTAACCAGAAAAACGGCCTCGTAGAGTCAACAGGGAGGTGGTAGACACTATGGTGCGG  
 CACTTCAAGATGCAGATATTTGGAGATCGGCAGCCTGGCTACGATGGCAAAAAGAAACATGTACACGGCAC  
 ACCCACTGCCAATCGGACGGGATAGGATTGATATGGAGGTGACCCTCCCAGGTGAGGGTAAAGACCAAAAC  
 TTTCAAAGTGTCTGTGCAGTGGGTGTGAGTGTGAGCCTTCAGCTGCTTTTAGAAGCTTTAGCAGGACAC  
 CTGAATGAAGTCCAGATGACTCAGTACAAGCACTTGTGTGATTACAAGGCATCTCCCCTATGAGGT  
 AACTCCAGTAGGCCGGTCTTTTTCTCACCTCCTGAAGTTATTACCACCTCTGGGAGGGGGCAGAGA  
 GGTGGTGGTGGCTTTCATCAGTCTGTGAGACCTGCCATGTGGAATATGATGCTCAATATTGATGTATCT  
 GCAACTGCTTTCTACCGGCTCAACCTATCATTGAGTTTATGTTGAGGTTTTAGACATTAGAATCA  
 ATGAGCAGACAAAACCTCTAACGACTCCCAGCGTGTCAAGTTTACCAAAGAAATTAGGGGTCTTAAAGT  
 TGAGGTGACTCACTGTGGACAGATGAAACGAAAATATCGAGTTTGTAAATGTGACAAGACGGCCAGCCAGT  
 CATCAAACCTTCCCTTTGCAGCTAGAGAATGGCCAAGCTATGGAATGTACAGTGGCTCAGTATTTTAAAGC  
 AGAAGTATAGTCTGCAGCTGAAACACCCCCACCTTCCCTGCCTTCAAGTGGGGCAAGAGCAAAAGCATA  
 CTACCTACCCTTGAAGTCTGTAATATAGTGGCAGGACAGAGATGTATAAAGAAGCTCACAGACAATCAG  
 ACATCCACCATGATCAAAGCCACGGCAAGATCTGCTCCTGACAGACAGGAGGAAATCAGTAGACAACAGAT  
 AGAGCAACAGCATGGTGGTGGACCTGACCCATACCTGAAGGAATTTGGGATTGTTGTGCAACAGGATG  
 GACAGAGCTCACAGGCAGGGTGGCTTCCGGCTCCAATGCTGCAGTATGGAGGCCGGAATAAAACAGTAGCC  
 ACACCCAGCCAGGTGTCTGGGACATGCGAGGAAAACAGTTTTATGCTGGCATTGAAATTAAGTATGGG  
 CAGTGGCTTGTGGCCTCAGAAACAATGTAGGGAAGATTTGCTAAAGAGTTTCACTGACCAACTTCG  
 TAAAATCTCCAAGGATGCAGGGATGCCCATCCAGGGTCAGCCATGTTTCTGCAAGTATGCTCAAGGTGCA  
 GACAGCGTGGAGCCCATGTTTAAACATCTGAAAATGACATATGTGGCCTGCAGCTAATAGTGGTGATTT  
 TGCTGGGAAGACACCAGTATATGCGGAGGTGAAGCGTGTGGAGATACCCTTCTAGGTATGGCCACACA  
 GTGTGTCCAGGTCAAAAACGTTGTGAAGACCTCGCCCCAGACCCTTCCAACTTTGCCTGAAGATGAAC  
 GCAAAGCTGGGAGGGATTAACAATGTGCTTGTGCCTCACAAAGGCCCTCAGTGTCCAGCAGCCTGTCA  
 TCTTTCTGGGAGCAGATGCTCACTCATCCGCTGCTGGGGACGGGAAGAAGCCTTCTATTGCAGCCGTGGT  
 GGGCAGCATGGACGGCCATCCCAGCCGGTACTGTGCCACAGTCCGGGTACAGACATCTCGACAGGAGATC  
 ACCCAGGAGCTCCTCTACAGCCAGGAGGTGCTGCAGGACCTGACGAGCATGGCTCGGGAGCTGCTGATTC  
 AATTCTATAAGTCCACGCGCTTCAAGCCACACGCATCATCTACTACCGCGGAGGGGTATCCGAGGGACA  
 GATGAAGCAGGTAGCTTGGCCGGAGCTAATAGCAATTCGAAAGGCATGTATAAGCTTGGAGGAAGACTAT  
 CGGCCGGGAATAACTTACATTGTGGTGCAAAAGAGGCACCACACAGACTCTTCTGTGCAGATAAAATGG  
 AAAGGTGGGAAAAGTGGCAATGTCCCAGCAGGCACCACAGTGGATAGCACCGTACACACCCCGTCTGA  
 GTTTGACTTTTACCTCTGTAGTCATGCAGGAATTCAGGGAACAGCCGTCCTTACATTACCAGGCTTGG  
 TGGGATGACAACCTGCTTCACTGCAGATGAACTCCAGTACTGACTTACCAGCTCTGTACACCTAGGTGA  
 GGTGCACACGCTCCGCTCCATTCTGCCCTGCATATTATGCCCGGCTTGTGGCATTCCGGGCAAGGTA  
 TCATTTGGTGGATAAAGATCATGACAGTGCAGGAGGAGTACAGTGTGAGCAGAGCAACGGCCGGGAT  
 CCTCAGGCCTTGGCTAAGGCTGTGCAGATCCACCATGATACCCAGCACACTATGTATTTTGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_153177  
**Insert Size:** 2586 bp

<b>OTI Disclaimer:</b>	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).
<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_153177.3</a> , <a href="#">NP_694817.2</a>
<b>RefSeq Size:</b>	6527 bp
<b>RefSeq ORF:</b>	2586 bp
<b>Locus ID:</b>	76850
<b>UniProt ID:</b>	<a href="#">Q8CJF8</a>
<b>Cytogenetics:</b>	4 D2.2
<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. Lacks endonuclease activity and does not appear to cleave target mRNAs.[UniProtKB/Swiss-Prot Function]