

## Product datasheet for **SC303941**

### AGO1 (NM\_012199) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGO1 (NM_012199) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGO1
Synonyms:	EIF2C; EIF2C1; GERP95; hAgo1; Q99
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_012199 edited  
 GGTACCTAGGCCCTCACGCTGGACTTCACAGTCTCCGGGCCCTGACCTCCGCACGGG  
 TATATGGGATGGAAGCGGGACCCTCGGGAGCAGCTGCGGGCGCTTACCTGCCCCCTGC  
 AGCAGGTGTTCCAGGCACCTCGCCGGCCTGGCATTGGCACTGTGGGAAACCAATCAAGC  
 TCCTGGCCAATTACTTTGAGGTGGACATCCCTAAGATCGACGTGTACCACTACGAGGTGG  
 ACATCAAGCCGGATAAGTGTCCCGTAGAGTCAACCGGGAAGTGGTGAATACATGGTCC  
 AGCATTCAAGCCTCAGATCTTTGGTATCGCAAGCCTGTGTATGATGGAAGAAGAACA  
 TTTACACTGTCACAGCACTGCCATTGGCAACGAACGGGTCGACTTTGAGGTGACAATCC  
 CTGGGGAAGGGAAGGATCGAATCTTTAAGGTCTCCATCAAGTGGCTAGCCATTGTGAGCT  
 GGCGAATGCTGCATGAGGCCCTGGTCAGCGGCCAGATCCCTGTTCCCTTGGAGTCTGTGC  
 AAGCCCTGGATGTGGCCATGAGGCACCTGGCATCCATGAGGTACACCCCTGTGGGCCGCT  
 CCTTCTTCTACCGCCTGAGGGCTACTACCACCGCTGGGGGGTGGGCGGAGGTCTGGT  
 TCGGCTTTCACCAAGTCTGTGCGCCCTGCCATGTGGAAGATGATGCTCAACATTGATGTCT  
 CAGCCACTGCCTTTTATAAGGCACAGCCAGTGATTGAGTTCATGTGTGAGGTGCTGGACA  
 TCAGGAACATAAATGAGCAGCCCAAGCCCTCACGGACTCTCAGCGGTTTCGTTACCA  
 AGGAGATCAAGGGCCTGAAGGTGGAAGTCACCCACTGTGGACAGATGAAGAGGAAGTACC  
 GCGTGTGTAATGTTACCGTTCGCCCTGCTAGCCATCAGACATTCCTTACAGCTGGAGA  
 GTGGACAGACTGTGGAGTGCACAGTGGCACAGTATTTCAAGCAGAATATAACCTTCAGC  
 TCAAGTATCCCCATCTGCCCTGCCTACAAGTTGGCCAGGAACAAAAGCATACCTACCTTC  
 CCTAGAGGTCTGTAACATTGTGGCTGGCAGCGCTGTATTA AAAAGCTGACCGACAACC  
 AGACCTCGACCATGATAAAGGCCACAGCTAGATCCGCTCCAGACAGACAGGAGGATCA  
 GTCGCCTGATGAAGAATGCCAGCTACAACCTTAGATCCCTACATCCAGGAATTTGGGATCA  
 AAGTGAAGGATGACATGACGGAGGTGACAGGGCGAGTGTGCGCGGCCCATCTTGCAGT  
 ACGGCGGCCGGAACCGGGCCATTGCCACACCCAATCAGGGTGTCTGGGACATGCGGGGA  
 AACAGTCTACAATGGGATTGAGATCAAAGTCTGGCCATCGCTTCTGCACCCCAAA  
 AACAGTGTGAGAAGAGGTGCTCAAGA ACTTCACAGACCAGCTGCGGAAGATTTCAAGG  
 ATGCGGGGATGCCTATCCAGGTCAACCTTGTCTGCAATATGCACAGGGGGCAGACA



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GCGTGGAGCCTATGTTCCGGCATCTCAAGAACACCTACTCAGGGCTGCAGCTCATTATTG  
 TCATCCTGCCAGGAAGACGCCGGTGTATGCTGAGGTGAAACGTGTCGGAGATACACTCT  
 TGGGAATGGCTACGCAGTGTGTGCAGGTGAAGAACGTGGTCAAGACCTCACCTCAGACTC  
 TGTCCAACCTCTGCCTCAAGATCAATGTCAAACCTGGTGGCATTAAACAACATCCTAGTCC  
 CACACCAGCGCTCTGCCGTTTTTCAACAGCCAGTGATATCCTGGGAGCAGATGTTACAC  
 ACCCCCCAGCAGGGGATGGAAAAAACCTTCTATCACAGCAGTGGTAGGCAGTATGGATG  
 CCCACCCAGCCGATACTGTGCTACTGTGCGGGTACAGCGACCACGGCAAGAGATCATTG  
 AAGACTTGTCTACATGGTGCCTGAGCTCCTCATCCAATTCTACAAGTCCACCCGTTTCA  
 AGCCTACCCGCATCATCTTCTACCGAGATGGGGTGCCTGAAGGCCAGCTACCCAGATA  
 TCCACTATGAGCTACTGGCCATTCGTGATGCCTGCATCAAACCTGGAAAAGGACTACCAGC  
 CTGGGATCACTTATATTGGTGCAGAAACGCCATCACACCCGCCTTTTCTGTGCTGACA  
 AGAATGAGCGAATTGGGAAGAGTGGTAACATCCCAGCTGGGACCACAGTGGACACCAACA  
 TCACCCACCCATTTGAGTTTGACTTCTATCTGTGCAGCCACGCAGGCATCCAGGGCACCA  
 GCCGACCATCCCATTACTATGTTCTTTGGGATGACAACCGTTTTCACAGCAGATGAGCTCC  
 AGATCCTGACGTACCAGTGTGCCACACTTACGTACGATGCACAGCTCTGTCTCTATCC  
 CAGCACCTGCCTACTATGCCCGCCTGGTGGCTTCCGGGCACGATACCACCTGGTGGACA  
 AGGAGCATGACAGTGGAGAGGGGAGCCACATATCGGGGCAGAGCAATGGCGGGACCCCC  
 AGGCCCTGGCCAAAGCCGTGCAGGTTACCAGGATACTCTGCGCACCATGTACTTCGCTT  
 GAAGGCAGAACGCTGTTACCTCACTGGATAGAAGAAAGCTTTCGAAGCCCGAGGAGCTGT  
 GCCACCCAAATCCAGAGGAAGCAAGGAGGAGGGAGGTGGGGTAGGGAGGAGTGTAGGATG  
 CCTTGTTCCTTCTATAGAGGTGGTGTAAAGTGGGGAACAGGGCCAGCAAGACAGACCA  
 CCAGCCAGAAATCTGTATCAACCTCATGTCCCCACCCCTCACCCCATCTTGTGACA  
 TCTGGCCCTGACCCCACTGGACCAAAAGGGGCAGCACTGGTGGCCACCATACACACAGT  
 GTCTCATGTGACTCACAGTGTAAAGACTCATGCTTACAGCTTGGTAAGGTCAACTCTG  
 TAGCCCTGCAGACAAAAGCTGGTTAGGTTTGGTTTGTACTTTAGATGGAAAAGTGAGG  
 GGCTTGAGAAAAGTGGTGGGAGGAGGGAAGGATTTTTTAGGAGCCTTAATCAGAAAAGGA  
 CTAGATTTGTTTAAAGAGAAAAATGAAACCAGACCCAGATCAATATTTTAGGATACTAGA  
 TGTTTTAATGGGTTCAGAATCCAGTTTGTAGGAAGATTTTTAATGGTTTTGGTTGCTCC  
 TCCCCAGCTGCCACCCCCACCTTACCCTTATCCTCTCTGTCCACATTTTCTGCCCA  
 CCTTACTTCTCCTCCCTGACAGACATCCAGCCCTAGTAATACTTAAGGCACTATGGCAC  
 TTAGCTTTGAAGTGACACGACCCTGTCTTCTTCCGCCCGCTGGTGGGTAACCAGTGCCT  
 TCCTGTAAACGGTAATGCTGCAGAACTGCAACCTTTTGTACCTTTCTTTGGGAAATGGGG  
 TGGGGGTGGGAGAGGAGGTAGATGGGGAAGAAATACCCAGACCCAACAACCTCCAGCC  
 AGAAAGCCAGCTATTTTGCATTTGAAGGAATTGACTTCCTCATTGAGCTTTTTTAA  
 AGATCACAAACCTCAAGATGGTAAAAATCCATTGACATTTGCACTTTCAAACATGACAAGT  
 CTCGGAGCTGCTGAGATGACAGGCCCTGGCCTTTCCACTTATGCCTCCTTTTCTCCTTA  
 TTCTCTACCTCCCGCCCGCCAGGTCTGGAGTTACTTTCATAGCATTTTTACTCTT  
 GGCTTCTTTTCTCCTTGTGGTCAAGTCTCTTATGTTTCAATATTTCTAACTGGGGTG  
 TCTTATAACAAAAAACTTTAGGTCTAAAATGAGAAAAAAGAGAAAAACAAAAATGTTAT  
 TTTTATACCATAACTTGAGTGTATTGCCAAAATTTGAAAATCCTTCCCATGCCTGATGAG  
 TTTATATCCCAGAAACATTGAGCCATCAGAACGAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_012199

**Insert Size:**

4000 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).

<b>OTI Annotation:</b>	ORF matches with NM_012199.2.
<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_012199.2</a> , <a href="#">NP_036331.1</a>
<b>RefSeq Size:</b>	7478 bp
<b>RefSeq ORF:</b>	2574 bp
<b>Locus ID:</b>	26523
<b>UniProt ID:</b>	<a href="#">Q9UL18</a>
<b>Cytogenetics:</b>	1p34.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>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 antisen RNA (asRNAs), 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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (1) results from translation termination at the upstream UGA stop codon, while the longer isoform (1x) results from UGA stop codon readthrough to the downstream UAG termination codon. This RefSeq represents the shorter isoform (1).</p>