

## Product datasheet for **SC310079**

### AGO3 (NM\_024852) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AGO3 (NM_024852) Human Untagged Clone
Tag:	Tag Free
Symbol:	AGO3
Synonyms:	EIF2C3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_024852, the custom clone sequence may differ by one or more nucleotides

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ATGGAATCGGCTCCGACGACCCGCTGGGGCCAGCCCTACTCATGGTGCCAGAACCTGGCTATG
GCACCATGGGCAAACCCATTAACCTGCTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCTA
CGTCTATGAGGTAGATATTAACACGACAAGTGTCTAGGAGAGTGAACAGGGAGGTGGTTGACTCAATG
GTTGAGCATTAAAAAGTAACTATATTTGGAGACCGTAGACCAGTTTATGATGGAAAAAGAAGTCTTTACA
CCGCCAATCCACTTCTGTGGCAACTACAGGGGTAGATTTAGACGTTACTTTACCTGGGGAAGGTGGAAA
AGATCGACCTTTCAAGGTGTCAATCAAATTTGTCTCTCGGGTGAAGTTGGCACCTACTGCATGAAGTACTG
ACAGGACGGACCTTGCTGAGCCACTGGAATTAGACAAGCCAATCAGCACTAACCTGTCCATGCCGTTG
ATGTGGTGTACGACATCTGCCCTCCATGAAATACACACCTGTGGGGCGTTCAATTTTCTCCGCTCCAGA
AGGATATGACCACCTCTGGGAGGGGGCAGGGAAGTGTGGTTTGGATTCCATCAGTCTGTTCCGCTGCC
ATGTGGAAAAATGATGCTTAATATCGATGTTTCTGCCACTGCCTTCTACAAAGCACAACTGTAATTCAGT
TCATGTGTGAAGTCTTGATATTCATAATATTGATGAGCAACCAAGACCTCTGACTGATTCTCATCGGGT
AAAATTCACAAAAGAGATAAAAGTTTGAAGTTGAAAGTACTCATTGTGGAACAATGAGACGGAATAC
CGTGTGTTGTAATGTAACAAGGAGCCTGCCAGTCATCAAACCTTTCTTTACAGTTAGAAAAACGGCCAAA
CTGTGGAGAGAACAGTAGCGCAGTATTTAGAGAAAAGTATACTTTCAGCTGAAGTACCCGACCTTCC
CTGTCTGCAAGTCGGGCAGGAACAGAAACACACCTACCTGCCACTAGAAGTCTGTAATATTGTGGCAGGG
CAACGATGTATCAAGAAGCTAACAGACAATCAGACTTCCACTATGATCAAGGCAACAGCAAGATCTGCAC
CAGATAGACAAGAGGAAATAGCAGATTGGTAAGAAGTCAAATATGAAACAGATCCATTTGTTCCAGGA
GTTTCAATTTAAAGTTCGGGATGAAATGGCTCATGTAAGTGGACGCGTACTTCCAGCACCTATGCTCCAG
TATGGAGGACGGAATCGGACAGTAGCAACACCGCCATGGAGTATGGGACATCGGAGGAAACAATCC
ACACAGGAGTTGAAATCAAAATGTGGGCTATCGCTTGTGTTTCCACACAGAGGCAGTGCAGAGAAGAAAT
ATTGAAGGGTTTACAGACCAGCTGCGTAAGATTTCTAAGGATGCAGGGATGCCCATCCAGGGCCAGCCA
TGCTTCTGCAAATATGCACAGGGGGCAGACAGCGTAGAGCCCATGTTCCGGCATCTCAAGAACACATATT
CTGGCCTACAGCTTATTATCGTCATCTGCCGGGGAAGACACCAGTGTATGCGGAAGTGAACGTGTAGG
AGACACACTTTTGGGTATGGCTACACAATGTGTTCAAGTCAAGAATGTAATAAAAAACATCTCTCAAAC
CTGTCAAACCTGTGCCTAAAGATAAATGTTAAACTCGGAGGGATCAATAATTTCTGTACCTCATCAA
GACCTTCTGTGTTCCAGCAACCAGTGTCTTTTGGGAGCCGATGCTACTCATCCACCTGCTGGTGTATGG
AAAGAAGCCTTCTATTGCTGCTGTGTAGGTAGTATGGATGCACACCCAAGCAGATACTGTGCCACAGTA
AGAGTTCAGAGACCCCGACAGGAGATCATCCAGGACTTGGCTCCATGGTCCGGGAACCTTATTCAAT
TTTATAAGTCAACTCGGTTCAAGCCTACTCGTATCATCTTTTATCGGGATGGTGTTCAGAGGGGAGTT
TAGGCAGGTATTAATTAATGAACACTAGCAATTCGAGAAGCCTGCATCAGTTTGGAGAAAGACTATCAA
CCTGGAATAACCTACATTGTAGTTTCAAGAGACATCACACTCGATTATTTTGTGCTGATAGGACAGAAA
GGGTTGGAAGAAGTGGCAATATCCAGCTGGAACAACAGTTGATACAGACATTACACACCATATGAGTT
CGATTTTACCTCTGTAGCCATGCTGGAATACAGGGTACCAGTCGTCCTTCACTATCATGTTTATGG
GATGATAACTGCTTTACTGCAGATGAACCTCAGCTGCTAACTTACCAGCTCTGCCACACTTACGTACGCT
GTACACGATCTGTTTCTATACCTGCACCAGCGTATTATGCTCACCTGGTAGCATTTAGAGCCAGATATCA
TCTTGTGACAAAAGAACATGACAGTGTGAAGGAAGTACGTTTTCAGGACAAAGCAATGGGCGAGATCCA
CAAGCTCTGCCAAGGCTGTACAGATTCACCAAGATACCTTACGCACAATGTAAGTCTCGCTTAA
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_024852

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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:**

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\\_024852.2](#), [NP\\_079128.2](#)

**RefSeq Size:** 3578 bp

**RefSeq ORF:** 2583 bp

**Locus ID:** 192669

**UniProt ID:** [Q9H9G7](#)

**Cytogenetics:** 1p34.3

**Domains:** PAZ, Piwi

**Protein Families:** Druggable Genome

**Gene Summary:**

This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic, contains a PAZ domain and a PIWI domain, and may play a role in short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a tandem cluster of closely related family members including argonaute 4 and eukaryotic translation initiation factor 2C, 1. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript, and encodes the longer isoform (a).