

Product datasheet for **SC307093**

AGO3 (NM_177422) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGO3 (NM_177422) 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)



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Fully Sequenced ORF: >SC307093 representing NM_177422.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGTGAAGTTCTTGATATTCATAATATTGATGAGCAACCAAGACCTCTGACTGATTCTCATCGGGTA
AAATTCACCAAAGAGATAAAAGGTTTGAAGTTGAAGTGACTCATTGTGGAACAATGAGACGGAAATAC
CGTGTGTTGTAATGTAACAAGGAGGCTGCCAGTCATCAAACCTTTCCTTTACAGTTAGAAAACGGCCAA
ACTGTGGAGAGAACAGTAGCGCAGTATTTAGAGAAAAGTATACTCTTACAGTGAAGTACCCGCACCTT
CCCTGTCTGCAAGTCGGGCAGGAACAGAAAACACCTACCTGCCACTAGAAGTCTGTAATATTGTGGCA
GGGCAACGATGTATCAAGAAGCTAACAGACAATCAGACTTCCACTATGATCAAGGCAACAGCAAGATCT
GCACCAGATAGACAAGAGGAAATTAGCAGATTGGTAAGAAGTGCAAAATATGAAACAGATCCATTTGTT
CAGGAGTTTCAATTTAAAGTTCGGGATGAAATGGCTCATGTAACCTGGACGCGTACTTCCAGCACCTATG
CTCCAGTATGGAGACGGAATCGGACAGTAGCAACACCGAGCCATGGAGTATGGGACATGCGAGGGAAA
CAATTCACACAGGAGTTGAAATCAAAATGTGGGCTATCGCTTGTGTTTCCACACAGAGGCAGTGCAGA
GAAGAAATATTGAAGGGTTTACAGACCAGCTGGGTAAGATTTCTAAGGATGCAGGGATGCCCATCCAG
GGCCAGCCATGCTTCTGCAAATATGCACAGGGGGCAGACAGCGTAGAGCCATGTTCCGGCATCTCAAG
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CCTGTGGTGATGAAAGAAGCCTTCTATTGCTGCTGTTGTAGGTAGTATGGATGCACACCCAAGCAGA
TACTGTGCCACAGTAAGAGTTTCAAGACCCCGACAGGAGATCATCCAGGACTTGGCCTCCATGGTCCGG
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TCACACTATCATGTTTTATGGGATGATAACTGCTTTACTGCAGATGAACTTACAGTGTCTAATTACCAG
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ACAATGTACTTCGCTTAA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
  
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Restriction Sites: SgfI-RsrII

ACCN: NM_177422

Insert Size: 1881 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).

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_177422.2](#)

RefSeq Size: 3409 bp

RefSeq ORF: 1881 bp

Locus ID: 192669

UniProt ID: [Q9H9G7](#)

Cytogenetics: 1p34.3

Protein Families: Druggable Genome

MW: 71.2 kDa

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 (2) has multiple differences in the coding region, which causes translation initiation at a downstream start codon, compared to variant 1. The resulting protein (isoform b) has a shorter N-terminus than isoform a.