

Product datasheet for **RC222233**

AGO3 (NM_024852) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC222233 representing NM_024852
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAATCGGCTCCGCAGGACCCGCTGGGGCCAGCCCTACTCATGGTGCCAGAACCTGGCTATG
 GCACCATGGGCAAACCCATTAAACTGCTGGCTAACTGTTTTCAAGTTGAAATCCCAAAGATTGATGTCTA
 CCTCTATGAGGTAGATATTAACACAGACAAGTGTCTTAGGAGAGTGAACAGGGAGGTGGTTGACTCAATG
 GTTCAGCATTTTAAAGTAACTATATTTGGAGACCGTAGACCAGTTTATGATGGAAAAAGAAGTCTTTACA
 CCGCCAATCCACTTCTGTGGCAACTACAGGGGTAGATTTAGACGTTACTTTACCTGGGGAAGGTGGAAA
 AGATCGACCTTTCAAGGTGTCAATCAAATTTGTCTCTCGGGTGTGGTGGCACCTACTGCATGAAGTACTG
 ACAGGACGGACCTTGCCCTGAGCCACTGGAATTAGACAAGCCAATCAGCACTAACCTGTCCATGCCGTTG
 ATGTGGTGTACGACATCTGCCCTCCATGAAATACACACCTGTGGGGCGTTCATTTTTCTCCGCTCCAGA
 AGGATATGACCACCTCTGGGAGGGGGCAGGGAAGTGTGGTTTGGATTCCATCAGTCTGTTCGGCCTGCC
 ATGTGGAAAAATGATGCTTAATATCGATGTTTTCTGCCACTGCCTTCTACAAGCACAACTGTAATTCAGT
 TCATGTGTGAAGTCTTGATATTCATAATATTGATGAGCAACCAAGACCTCTGACTGATTCTCATCGGGT
 AAAATTCACCAAAGAGATAAAAGGTTTGAAGGTTGAAGTGACTCATTGTGGAACAATGAGACGGAATAC
 CGTGTGTTGTAATGTAACAAGGAGGCCTGCCAGTCATCAAACCTTTCTTTACAGTTAGAAAAACGGCCAAA
 CTGTGGAGAGAACAGTAGCGCAGTATTTAGAGAAAAAGTATACTCTTCAAGTGAAGTACCCGACCTTCC
 CTGTCTGCAAGTCGGGCAGGAACAGAAACACACCTACCTGCCACTAGAAGTCTGTAATATTGTGGCAGGG
 CAACGATGATCAAGAAGCTAACAGACAATCAGACTTCCACTATGATCAAGGCAACAGCAAGATCTGCAC
 CAGATAGACAAGAGGAAATAGCAGATTGGTAAGAAGTGCAAATTAAGAAACAGATCCATTTGTTGTTGTT
 GTTTCAATTTAAAGTTCGGGATGAAATGGCTCATGTAACCTGGACGCGTACTTCCAGCACCTATGCTCCAG
 TATGGAGGACGGAATCGGACAGTAGCAACACCGAGCCATGGAGTATGGGACATGCGAGGGAAACAATTCC
 ACACAGGAGTTGAAATCAAAATGTGGGCTATCGCTTGTGTTTCCACACAGAGGCAGTGCAGAGAAGAAAT
 ATTGAAGGGTTTACAGACCAGCTGCGTAAGATTTCTAAGGATGCAGGGATGCCCATCCAGGGCCAGCCA
 TGCTTCTGCAAAATATGCACAGGGGGCAGACAGCGTAGAGCCCATGTTCCGGCATCTCAAGAACACATATT
 CTGGCCTACAGCTTATTATCGTCATCTGCCGGGAAGACACCAGTGTATGCGGAAGTGAACGTGTAGG
 AGACACACTTTTGGGTATGGCTACACAATGTGTTCAAGTCAAGAATGTAATAAAAAACATCTCCTCAAAC
 CTGTCAAACCTTGTGCTAAAGATAAATGTTAAACTCGGAGGGATCAATAATATTCTGTACCTCATCAA
 GACCTTCTGTGTTCCAGCAACCAGTGATCTTTTTGGGAGCCGATGCACTCATCCACCTGCTGGTGTATGG
 AAAGAAGCCTTCTATTGCTGCTGTTGTAGGTAGTATGGATGCACACCCAAGCAGATACTGTGCCACAGTA
 AGAGTTACAGACCCCGACAGGAGATCATCCAGGACTTGGCTCCATGGTCCGGGAACCTTCTATTCAAT
 TTTATAAGTCAACTCGGTTCAAGCCTACTCGTATCATCTTTTATCGGGATGGTGTTCAGAGGGGCAGTT
 TAGGCAGGTATTATATTGAACTACTAGCAATTCGAGAAGCCTGCATCAGTTTGGAGAAAGACTATCAA
 CCTGGAATAACCTACATTGTAGTTCAGAAGAGACATCACACTCGATTATTTGTGCTGATAGGACAGAAA
 GGGTTGGAAGAAGTGGCAATATCCAGCTGGAACAACAGTTGATACAGACATTACACCCCATATGAGTT
 CGATTTTACCTCTGTAGCCATGCTGGAATACAGGGTACCAGTCTCCTCACACTATCATGTTTTATGG
 GATGATAACTGCTTTACTGCAGATGAACCTCAGCTGCTAACTTACCAGCTCTGCCACACTTACGTACGCT
 GTACACGATCTGTTTCTATACCTGCACCAGCGTATTATGCTCACCTGGTAGCATTTAGAGCCAGATATCA
 TCTTGTGGACAAAGAACATGACAGTGTGAAGGAAGTACGTTTTAGGACAAAGCAATGGGCGAGATCCA
 CAAGCTCTTGCAAGGCTGTACAGATTCACCAAGATACCTTACGCACAATGTACTTCGCT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222233 representing NM_024852
 Red=Cloning site Green=Tags(s)

```

MEIGSAGPAGAQLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLVEVDIKPKDCPRRVNREVVDSM
VQHFKVTIFGDRRPVYDGRSLYANPLPVATTGVDLDTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVL
TGRTLPEPLELDKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHLGGGREVWFGHQSVRPA
MWKMLNIDVSATAFYKAQPVIQFMCEVLDIHNIDEQPRPLTDSHRVKFTEIKGLKVEVTHCGTMRKY
RVCNVTRRPASHQTFPLQLENGQTVERTVAQYFREKYTLQLKYPHLPCLQVQEQKHTYLPLEVCNIVAG
QRCIKKLDNQTSTMIKATARSAPDRQEEISRLVRSANYETDPFVQEFQFKVRDEMAHVTGRVLPAPMLQ
YGGNRNRTVATPSHGVDMRGKQFHTGVEIKMWAIACFATQRQREEILKGFDTQLRKISKDAGMPIQGQP
CFCKYAQGADSVPEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQKNVIKTSPQT
LSNLCLKINVKLGGINNILLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSTRYCATV
RVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYELLAIREACISLEKDYQ
PGITYIVVQKRHHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDYLCSHAGIQGTSRPSHYHVLW
DDNCFTADELQLLTYQLCHTYVRCRTRSVSIPAPAYYHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDP
QALAKAVQIHQDTLRTMYFA
  
```

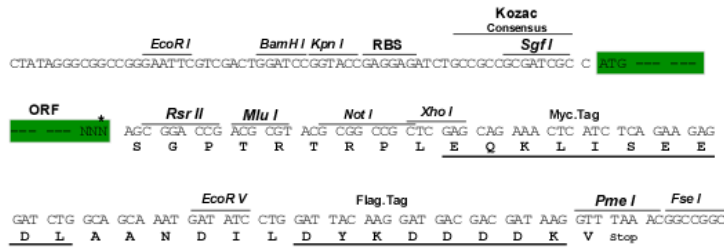
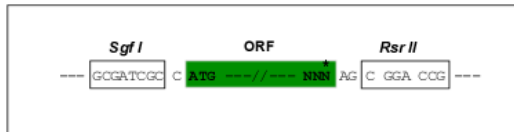
SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2704_c02.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:

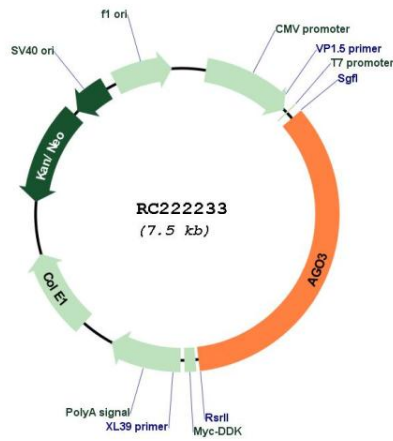


* The last codon before the Stop codon of the ORF

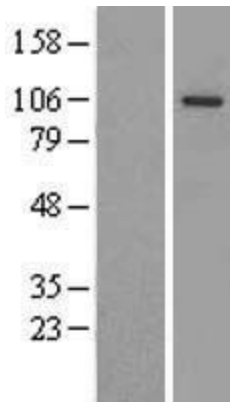
ACCN:	NM_024852
ORF Size:	2580 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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 or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_024852.4
RefSeq Size:	3578 bp
RefSeq ORF:	2583 bp
Locus ID:	192669
UniProt ID:	Q9H9G7
Cytogenetics:	1p34.3
Domains:	PAZ, Piwi
Protein Families:	Druggable Genome
MW:	97.2 kDa

Gene Summary:

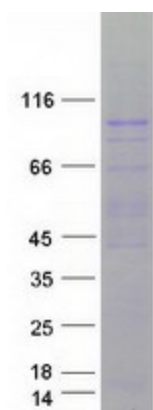
This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic, contains a PAZ domain and a PIWI domain, and may play a role in short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a tandem cluster 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]

Product images:


Circular map for RC222233



Western blot validation of overexpression lysate (Cat# [LY411021]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222233 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AGO3 protein (Cat# [TP322233]). The protein was produced from HEK293T cells transfected with AGO3 cDNA clone (Cat# RC222233) using MegaTran 2.0 (Cat# [TT210002]).