

Product datasheet for **RG209163**

AGO1 (NM_012199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AGO1 (NM_012199) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AGO1
Synonyms:	EIF2C; EIF2C1; GERP95; hAgo1; Q99
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG209163 representing NM_012199
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAAGCGGGACCCTCGGGAGCAGCTGCGGGCGCTTACCTGCCCCCTGCAGCAGGTGTTCCAGGCAC
CTCGCCGGCCTGGCATTGGCACTGTGGGAAACCAATCAAGCTCCTGGCCAATTACTTTGAGGTGGACAT
CCCTAAGATCGACGTGTACCACTACGAGGTGGACATCAAGCCGGATAAGTGTCCCCGTAGAGTCAACCGG
GAAGTGGTGAATACATGGTCCAGCATTCAAGCCTCAGATCTTTGGTATCGCAAGCCTGTGTATGATG
GAAAGAAGAACATTTACTGTACAGCACTGCCATTGGCAACGAACGGGTGACTTTGAGGTGACAAAT
CCCTGGGAAGGGAAGGATCGAATCTTTAAGGTCTCCATCAAGTGGTAGCCATTGTGAGCTGGCGAATG
CTGCATGAGGCCCTGGTACGCGCCAGATCCCTGTTCCCTGGAGTCTGTGCAAGCCTGGATGTGGCCA
TGAGGCACCTGGCATCCATGAGGTACACCCCTGTGGGCCGCTCCTTCTTCTACCCGCTGAGGGCTACTA
CCACCCGCTGGGGGTGGGCGCAGGTCTGGTTCGGCTTTCACCACTGTGTGCGCCCTGCCATGTGGAAG
ATGATGCTCAACATTGATGTCTCAGCCACTGCCTTTTATAAGGCACAGCCAGTGATTGAGTTCATGTGTG
AGGTGCTGGACATCAGGAACATAAATGAGCAGCCCAAGCCCTCACGGACTCTCAGCGCTTCGTTTCAC
CAAGGAGATCAAGGGCCTGAAGGTGGAAGTCAACCACTGTGGACAGATGAAGAGGAAGTACCGCGTGTGT
AATGTTACCCGTCGCCCTGCTAGCCATCAGACATTCCTTACAGCTGGAGAGTGGACAGACTGTGGAGT
GCACAGTGGCACAGTATTTCAAGCAGAAATAAACCTTCAGCTCAAGTATCCCATCTGCCCTGCCTACA
AGTTGGCCAGGAACAAAAGCATACTACCTTCCCTAGAGGTCTGTAACATTGTGGCTGGCAGCGCTGT
ATTAAGAGCTGACCGACAACAGACCTCGACCATGATAAAGGCCACAGCTAGATCCGCTCCAGAGAAATTTGGGAT
CAAAGTGAAGGATGACATGACGGAGGTGACAGGGCAGTGTGCGCGGCCCATCTTGAGTACGGCGGC
CGGAACCGGGCCATTGCCACACCAATCAGGGTGTCTGGGACATGCGGGGAAACAGTTCTACAATGGGA
TTGAGATCAAAGTCTGGGCCATCGCTGCTTCGCACCCCAAAAACAGTGTGAGAAGAGGTGCTCAAAGAA
CTTCACAGACCAGCTGCGGAAGATTTCAAGGATGCGGGGATGCCTATCCAGGGTCAACCTGTTTCTGC
AAATATGCACAGGGGGCAGACAGCGTGGAGCCTATGTTCCGGCATCTCAAGAACCTACTCAGGGCTGC
AGCTCATTATTGTCATCCTGCCAGGAAGACGCCGGTGTATGCTGAGGTGAAACGTGTGGGATACACT
CTTGGGAATGGCTACGCAGTGTGTGAGGTGAAGAACGTGGTCAAGACCTCACCTCAGACTCTGTCCAAC
CTCTGCCTCAAGATCAATGTCAAATTTGGTGGCATTAAACAACATCCTAGTCCCACACCAGCGCTCTGCCG
TTTTTCAACAGCCAGTGATATTCCTGGGAGCAGATGTTACACACCCCCAGCAGGGGATGGGAAAAAACC
TTCTATCACAGCAGTGGTAGGCAGTATGGATGCCACCCAGCCGATACTGTGCTACTGTGCGGGTACAG
CGACCACGGCAAGAGATCATTGAAGACTTGTCTACATGGTGCCTGAGCTCCTCATCCAATTCTACAAGT
CCACCCGTTTCAAGCCTACCCGCATCATCTTCTACCGAGATGGGGTGCCTGAAGGCCAGCTACCCAGAT
ACTCCACTATGAGCTACTGGCATTTCGTGATGCCTGCATCAAATGGAAGGACTACCAGCCTGGGATC
ACTTATATTGGTGCAGAAACGCCATCACACCCGCTTTTCTGTGCTGACAAGAATGAGCGAATTGGGA
AGAGTGGTAACATCCCAGCTGGGACCACAGTGGACACCAACATCACCCACCCATTTGAGTTTGACTTCTA
TCTGTGCAGCCACGCAGGCATCCAGGGCACCAGCCGACCATCCCATTACTATGTTCTTTGGGATGACAAC
CGTTTACAGCAGATGAGCTCCAGATCCTGACGTACCAGCTGTGCCACACTTACGTACGATGCACACGCT
CTGTCTCTATCCAGCACCTGCCTACTATGCCCGCTGGTGGCTTTCCGGGCACGATACCACCTGGTGGAA
CAAGGAGCATGACAGTGGAGAGGGGAGCCACATATCGGGCAGAGCAATGGGCGGGACCCCAAGGCCCTG
GCCAAAGCCGTGCAGGTTACCAGGATACTCTGCGCACCATGTACTTCGCT

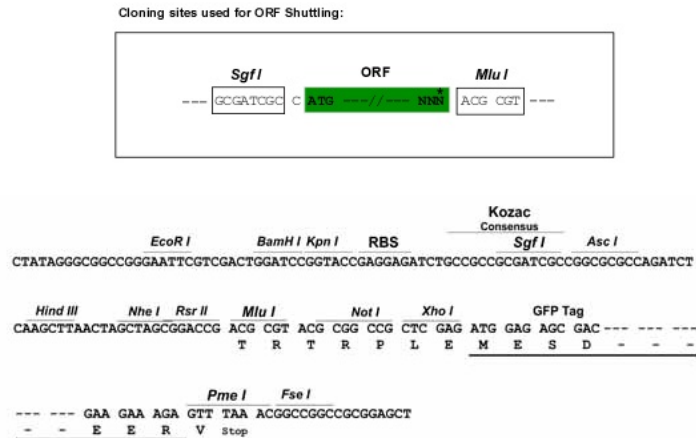
ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209163 representing NM_012199
Red=Cloning site Green=Tags(s)

MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIKPDKCPRRVNR
EVVEYMQHFQIFGDRKPVYDGKKNIYVTALPIGNERVDFEVTIPGEGKDRIFKVSIKWLAIVSWRM
LHEALVSGQIPVPLESVQALDVAMRHLASMRYPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWK
MMLNIDVSATAFYKAQPVIEFMCEVLDIRNINEQPKPLTDSQRVRFTEIKGLKVEVTHCGQMKRKYRVC
NVTRRPASHQTFPLQLESGQTVECTVAQYFKQYNLQLKYPHLPCLQVQEQKHTYLPLEVCNIVAGQRC
IKKLTDNQSTMIKATARSAPDRQEEISRMLKNASYNLDPYIQEFGIKVKDDMTEVTGRVLPAPILQYGG
RNRAIATPNQGVWDMRGKQFYNGIEIKVWAIACFAPQKQCREEV LKNFTDQLRKISKDAGMPIQGQPCFC
KYAQGADSVPEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGD TLLGMATQCVQKNVKTSPQTL SN
LCLKINVKLGGINNILVPHQRSVVFQQPVI FLGADVTHPPAGDGKKPSITAVVGSMDAHP SRYCATVRVQ
RPRQEIIEDLSYVRELLIQFYKSTRFKPTRIIF YRDGVPEGQLPQILHYELLAIRDACIKLEKDYQPGI
TYIVVQKRHHTRLFCADKNERIGKSGNIPAGTTVD TNITHPFEDFYLC SHAGIQGTSRPSHYV LWDDN
RFTADELQILTYQLCHTYVRCRTRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQAL
AKAVQVHQD TLR TMYFA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_012199

ORF Size: 2571 bp

OTI Disclaimer: 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 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:

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_012199.2](#), [NP_036331.1](#)

RefSeq Size: 7478 bp

RefSeq ORF: 2574 bp

Locus ID: 26523

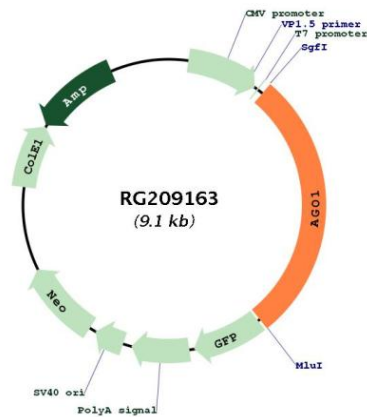
UniProt ID: [Q9UL18](#)

Cytogenetics: 1p34.3

Protein Families: Druggable Genome

Gene Summary: 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 antigenic RNAs (agRNAs), 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]

Product images:



Circular map for RG209163