

Product datasheet for **RG219632**

Argonaute 4 (AGO4) (NM_017629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Argonaute 4 (AGO4) (NM_017629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Argonaute 4
Synonyms:	EIF2C4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG219632 representing NM_017629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCGCTGGGACCCGGACCTCCGGTAGCCTGTTTCAGCCACCTCGTCGCTCTGGCCTTGGAACTG
 TTGAAAAACCAATTCGACTGTTAGCCAATCATTTTCAGGTTTCAGATTCTAAAAATAGATGTGTATCACTA
 TGATGTGGATATTAAGCCTGAAAAACGGCCTCGTAGAGTCAACAGGGAGGTAGTAGATACAATGGTGCGG
 CACTTCAAGATGCAAAATTTTGGTGATCGGCAGCCTGGGTATGATGGCAAAAGAAACATGTACACAGCAC
 ATCCACTACCAATTGGACGGGATAGGGTTGATATGGAGGTGACTCTTCAGGCGAGGGTAAAGACCAAAAC
 ATTTAAAGTGTCTGTTCACTGGGTGTGAGTGTGAGCCTTCAGTTGCTTTTGAAGCTTTGGCTGGGCAC
 TTGAATGAAGTCCAGATGACTCAGTACAAGCACTTGATGTTATCACAAGACACCTTCCCTCCATGAGGT
 ACACCCAGTGGGCCGTTCTTTTCTCACCCCGGAAGGTTACTACCACCTCTGGGAGGGGGCAGGGA
 GGTCTGGTTTGGTTTTCATCAGTCTGTGAGACCTGCCATGTGGAATATGATGCTCAACATTGATGTATCT
 GCAACTGCTTTCTACCGGCTCAGCCTATCATTGAGTTTATGTGTGAGGTTTTAGACATTAGAATATCA
 ATGAACAGACCAAACTCTAACAGACTCCAGCGTGTCAAATTTACCAAGAAATCAGAGGTCTCAAAGT
 TGAGGTGACCCACTGTGGACAGATGAAACGAAAATACCGAGTTTGTAAATGTGACTAGACGGCCAGCCAGT
 CATCAAATTTTCTTTGAGCTAGAAAACGGTCAAGCTATGGAATGTACAGTAGCTCAATATTTTAAAGC
 AAAAGTATAGTCTGCAACTGAAATACCCCATCTTCCCTGTCTCCAAGTGGGACAAGAACAAAAGCATAC
 ATACTTGCCACTCGAGGTCTGTAATATAGTGGCAGGACAGCGATGTATCAAGAAGCTCACAGACAATCAG
 ACTTCCACAATGATCAAAGCTACAGCAAGATCTGCTCCTGACAGACAGGAAGAGATCAGTAGACTGGTGA
 AGAGCAACAGTATGGTGGGTGGACCTGATCCATACCTTAAAGAATTTGGTATTGTTGCCACAATGAAAT
 GACAGAGCTCACAGGCAGGGTACTTCCAGCACCAATGCTGCAATATGGAGGCCGGAATAAAACAGTAGCC
 ACACCCAACCAAGGTGTCTGGGACATGCCAGGAAAGCAGTTTTATGCTGGCATTGAAATTAAGTTTGGG
 CAGTTGCTTGTGTTTGCACCTCAGAAACAATGTAGGGAAGATTTACTAAAGAGTTTCACTGACCAGCTGCG
 TAAATCTCTAAGGATGCAGGAATGCCCATCCAGGGTCAGCCATGTTTCTGCAAGTATGCACAAGGTGCA
 GACAGTGTGGAGCCTATGTTTAAACATCTGAAATGACTTATGTGGCCTACAGCTAATAGTGGTTATCC
 TGCCTGGAAAGACACCAGTATATGCGGAGGTGAAACGTGTTGGAGATACCCTTCTAGGTATGGCCACACA
 GTGTGTCCAGGTAAAAATGTAGTGAAGACCTCACCTCAAACCTTTCCAATCTTTGCCTGAAGATAAAT
 GCAAACTTGGAGGAATTAACAATGTGCTTGTGCCTCATCAAAGGCCCTCGGTGTTCCAGCAGCCTGTCA
 TCTTCTGGGAGCGGATGTCACACACCCCCAGCAGGGGATGGGAAGAAACCTTCCATTGCTGCTGTGGT
 TGGCAGTATGGATGGCCACCCAGCCGGTACTGTGCCACCGTTCCGGTGCAGACTTCCCGGCAGGAGATC
 TCCCAAGAGCTCCTCTACAGTCAAGAGGTCTCCAGGACCTGACTAACATGGTTTCGAGAGCTGCTGATTC
 AGTTCTACAAATCCACACGCTTCAAACCACTCGGATCATCTATTACCGTGGAGGGGTATCTGAGGGACA
 AATGAAACAGGTAGCTTGGCCAGAACTAATAGCAATTCGAAAGGCATGTATTAGCTTGAAGAAGATTAC
 CGGCCAGGAATAACTTATATTGTGGTGCAAAAAAGACATCACACAGACTCTTCTGTGCAGATAAAACAG
 AAAGGGTAGGGAAAAGTGGCAATGTACCAGCAGGCACTACAGTGGATAGTACCATCACACATCCATCTGA
 GTTTGACTTTTACCTCTGTAGTCATGCAGGAATTCAGGGAACAGCCGTCCTCATTACCAGGTCTTG
 TGGGATGACAACCTGCTTCACTGCAGATGAACTCCAGCTACTGACTTACCAGCTGTGTACACCTATGTGA
 GGTGCACTCGCTCAGTCTCTATTCCAGCCCTGCATATTATGCCCGGCTGTAGCATTTAGGGCAAGGTA
 TCATCTGGTGGATAAAGATCATGACAGTGCAGGAAGGCAGTCATGTGTGAGGACAGAGCAACGGCCGGAT
 CCTCAGGCCTTGCTAAGGCTGTGCAAAATCCACCATGATACCCAGCACACGATGTATTTTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG219632 representing NM_017629
 Red=Cloning site Green=Tags(s)

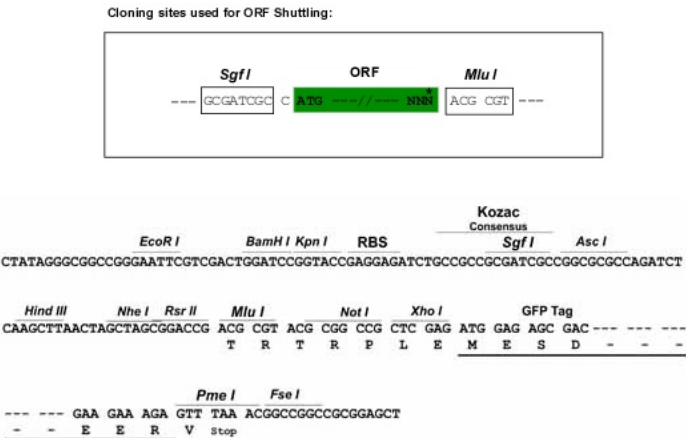
```
MEALGPGPPASLFQPPRRPGLGTVGKPIRLLANHFQVQIPKIDVYHYDVIKPEKRPRRVNREVVDTMVR
HFKMQIFGDRQPGYDGKRNMYTAHPLPIGRDRVDMETLPGEGKDQTFKVSQVSVVSLQLLEALAGH
LNEVPDDSVQALDVITRHLPSMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWNMMLNIDVS
ATAFYRAQPIIEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPAS
HQTFFPLQLENGQAMECTVAQYFKQKYSLLKYPHLPCLQVGQEQQKHTYLPLEVCNIVAGQRCIKKLTNDQ
TSTMIKATARSAPDRQEEISRLVKSNSMVGGPDPLYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTV
TPNQGVWDMRGKQFYAGIEIKVWAVACFAPQKQCREDLLKSFTDQLRKISKDAGMPIQGGQPCFCKYAQGA
DSVEPMFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPTLSNLCLKIN
AKLGGINNVLVPHQRPSVFQQPVI FLGADVTHPPAGDGKKPSIAAVVGSMDGHPSRYCATVRVQTSRQEI
SQELLYSQEV IQDLTNMVRELLIQFYKSTRFKPTRIIYYRGGVSEGQMKQVAWPELIAIRKACISLEEDY
RPGITYIVVQKRHHTRLFCADKTERVGKSGNVPAGTTVDSTITHPSEDFYLC SHAGIQGTSRPSHYQVL
WDDNCFTADELQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKDHDSAEGSHVSGQSNGRD
PQALAKAVQIHHDQTHTMYFA
```

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN:	NM_017629
ORF Size:	2583 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017629.4](#)

RefSeq Size: 4758 bp

RefSeq ORF: 2586 bp

Locus ID: 192670

UniProt ID: [Q9HCK5](#)

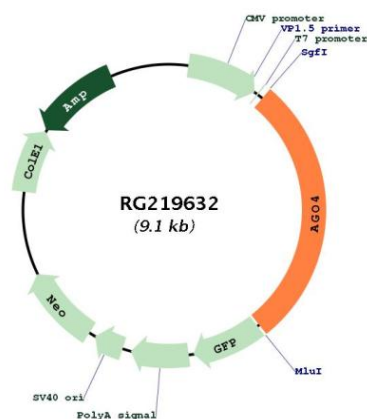
Cytogenetics: 1p34.3

Domains: Piwi

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the Argonaute family of proteins which contain PAZ and PIWI domains and play an integral role in RNA interference and short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a cluster of related family members. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG219632