

Product datasheet for **RC219632**

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:	Myc-DDK
Symbol:	Argonaute 4
Synonyms:	EIF2C4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC219632 representing NM_017629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGCGCTGGGACCCGGACCTCCGGCTAGCCTGTTTCAGCCACCTCGTCGCTCTGGCCTTGGAACTG
 TTGAAAAACCAATTCGACTGTTAGCCAATCATTTCAGGTTAGATTCTAAAATAGATGTGTATCACTA
 TGATGTGGATATTAAGCCTGAAAAACGGCCTCGTAGAGTCAACAGGGAGGTAGTAGATACAATGGTGCGG
 CACTTCAAGATGCAAAATATTTGGTGATCGGCAGCCTGGGTATGATGGCAAAAGAAACATGTACACAGCAC
 ATCCACTACCAATTGGACGGGATAGGGTTGATATGGAGGTGACTCTCCAGGCGAGGGTAAAGACCAAAAC
 ATTTAAAGTGTCTGTTCCAGTGGGTGTGAGTGTGAGCCTTCAGTTGCTTTTAGAAGCTTTGGCTGGGCAC
 TTGAATGAAGTCCAGATGACTCAGTACAAGCACTTGTGTTATCACAAGACACCTTCCCTCCATGAGGT
 ACACCCAGTGGCCGTTCCTTTTCTCACCCCGGAAGGTTACTACCACCTCTGGGAGGGGGCAGGGA
 GGTCTGGTTTGGTTTTTCATCAGTCTGTGAGACCTGCCATGTGGAATATGATGCTCAACATTGATGTATCT
 GCAACTGCTTTCTACCGGCTCAGCCTATCATTGAGTTCATGTGTGAGGTTTTAGACATTAGAACATCA
 ATGAACAGACCAACCTCTAACAGACTCCAGCGTGTCAAATTTACCAAAGAAATCAGAGGTCTCAAAGT
 TGAGGTGACCCACTGTGGACAGATGAAACGAAAATACCGAGTTTGTAAATGTGACTAGACGGCCAGCCAGT
 CATCAAATTTTCTTTGAGCTAGAAAACGGTCAAGCTATGGAATGTACAGTAGCTCAATATTTTAAAGC
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 ATACTTGGCACTCGAGGTCTGTAATATAGTGGCAGGACAGCGATGTATCAAGAAGCTCACAGACAATCAG
 ACTTCCACAATGATCAAAGCTACAGCAAGATCTGCTCCTGACAGACAGGAAGAGATCAGTAGCACTGGTGA
 AGAGACAACAGTATGGTGGGTGGACCTGATCCATACCTTAAAGAATTTGGTATTGTTGTCCACAATGAAAT
 GACAGAGCTCACAGGCAGGGTACTTCCAGCACCAATGCTGCAATATGGAGGCCGGAATAAAACAGTAGCC
 ACACCCAACAGGGTGTCTGGGACATGCGAGGAAAGCAGTTTTATGCTGGCATTGAAATTAAGTTTGGG
 CAGTTGCTTGTGTTGACCTCAGAAACAATGTAGGGAAGATTTACTAAAGAGTTTCACTGACCAGCTGCG
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 GACAGTGTGGAGCCTATGTTTAAACATCTGAAAATGACTTATGTGGGCCTACAGCTAATAGTGGTTATCC
 TGCCTGGAAGACACCAGTATATGCGGAGGTGAAACGTGTGGAGATACCCTTCTAGGTATGGCCACACA
 GTGTGTCCAGGTAAAAATGTAGTGAAGACCTCACCTCAAACCTTTCCAATCTTTCCTGAAGATAAAT
 GCAAACTTGGAGGAATTAACAATGTGCTTGTGCCTCATCAAAGCCCTCGGTGTCCAGCAGCCTGTCA
 TCTTCTGGGAGCGGATGTCACACACCCCCAGCAGGGGATGGGAAGAAACCTTCCATTGCTGTGTGGT
 TGGCAGTATGGATGGCCACCCAGCCGGTACTGTGCCACCGTTCCGGTGCAGACTTCCCGCAGGAGATC
 TCCAAGAGCTCCTCTACAGTCAAGAGGTATCCAGGACCTGACTAACATGGTTCGAGAGCTGCTGATTC
 AGTTCTACAAATCCACACGCTTCAAACCCACTCGGATCATCTATTACCGTGGAGGGGTATCTGAGGGACA
 AATGAAACAGGTAGCTTGGCCAGAATAATAGCAATTCGAAAGGCATGTATTAGCTTGAAGAAGATTAC
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 GGTGCACTCGCTCAGTCTCTATTCCAGCCCTGCATATTATGCCCGCTTGTAGCATTTAGGCAAGGTA
 TCATCTGGTGGATAAAGATCATGACAGTGCAGGAGGAGTGTGTGTCAGGACAGAGCAACGGCCGGGAT
 CCTCAGGCCTTGGCTAAGGCTGTGCAAAATCCACCATGATACCCAGCACACGATGTATTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219632 representing NM_017629
 Red=Cloning site Green=Tags(s)

MEALGPGPPASLFQPPRRPGLGTVGKPIRLLANHFVQVQIPKIDVYHYDVIKPEKRPRRVNREVVDTMVR
 HFKMQIFGDRQPGYDGKRNMYTAHPLPIGRDRVMEVTLPGEGKDQTFKVSQWVSVSLQLLEALAGH
 LNEVPDSSVQALDVITRHLPSMRYPVGRSFFSPPEGYHPLGGGREVWFGFHQSVRPAMWNMLNIDVS
 ATAFYRAQPIIEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPAS
 HQTFPLQLENGQAMECTVAQYFKQKYSLQLKYPHLPCLQVQEQKHTYLPLEVCNIVAGQRCIKKLTDNQ
 TSTMIKATARSAPDRQEEISRLVKSNSMVGPPDPYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTVA
 TPNQGVWDMRGKQFYAGIEIKVWAVACFAPQKQCREDLLKSFDTQLRKISKDAGMPIQGQPCFKYAQGA
 DSVEPMFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDLLGMATQCVQVKNVVKTSPTLSNLCLKIN
 AKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDGHPSTRYCATVRVQTSRQEI
 SQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIYYRGGVSEGQMKQVAWPELIAIRKACISLEEDY
 RPGITYIIVVQKRHHTRLFCADKTERVKGSGNVPAGTTVDSTITHPSEDFYLCSHAGIQGTSRPSHYQVL
 WDDNCFATADELQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKDHDSAEGSHVSGQSNGRD
 PQALAKAVQIHHDQHTMYFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2667_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

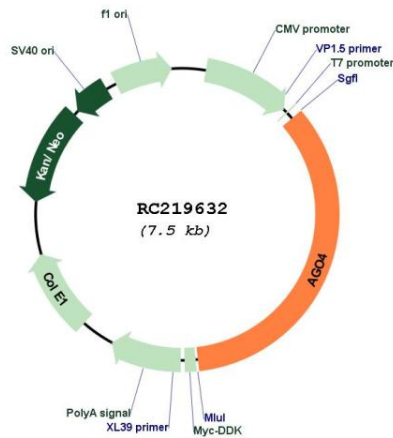
Cloning sites used for ORF Shuttling:



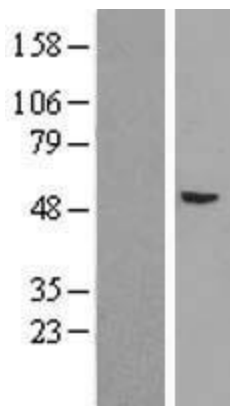
* The last codon before the Stop codon of the ORF

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:	<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_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
MW:	96.9 kDa
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 RC219632



Western blot validation of overexpression lysate (Cat# [LY402604]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219632 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).