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Product datasheet for MR210988

Ago4 (NM_153177) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ago4 (NM_153177) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ago4
Synonyms:	5730550L01Rik; AI481660; Eif2c4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210988 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGCGCTGGGACCCGGACCTCCAGCCAGCCTCTTCCAGCCACCTCGGCGTCCTGGCCTTGGAACCG
TTGGGAAACCAATTCGACTGTTAGCCAATCATTTTCAGGTTCAGATCCCTAAAATAGATGTGTATCACTA
TGATGTGGATATTAAACCAGAAAAACGGCCTCGTAGAGTCAACAGGGAGGTGGTAGACACTATGGTGCGG
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ACCCACTGCCAATCGGACGGGATAGGATTGATATGGAGGTGACCCTCCCAGGTGAGGGTAAAGACCAAAC
TTTCAAAGTGTCTGTGCAGTGGGTGTCAGTTGTGAGCCTTCAGCTGCTTTTAGAAGCTTTAGCAGGACAC
CTGAATGAAGTCCCAGATGACTCAGTACAAGCACTTGATGTGATTACAAGGCATCTCCCCTCTATGAGGT
ACACTCCAGTAGGCCGGTCTTTTTTCTCACCTCCTGAAGGTTATTACCACCCTCTGGGAGGGGGCAGAGA
GGTTTGGTTTGGCTTTCATCAGTCTGTGAGACCTGCCATGTGGAATATGATGCTCAATATTGATGTATCT
GCAACTGCTTTCTACCGGGCTCAACCTATCATTGAGTTCATGTGTGAGGTTTTAGACATTCAGAACATCA
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GGTGCACACGCTCCGTCTCCATTCCTGCCCCTGCATATTATGCCCGGCTTGTGGCATTCCGGGCAAGGTA
TCATTTGGTGGATAAAGATCATGACAGTGCGGAAGGCAGTCACGTGTCAGGACAGAGCAACGGCCGGGAT
CCTCAGGCCTTGGCTAAGGCTGTGCAGATCCACCATGATACCCAGCACACTATGTATTTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210988 protein sequence
Red=Cloning site Green=Tags(s)

MEALGPGPPASLFQPPRRPGLGTVGKPIRLLANHFQVQIPKIDVYHYDVDIKPEKRPRRVNREVVDTMVR
HFKMQIFGDRQPGYDGKRNMYTAHPLPIGRDRIDMEVTLPGEGKDQTFKVSVQWVSVVSLQLLLEALAGH
LNEVPDDSVQALDVITRHLPSMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWNMMLNIDVS
ATAFYRAQPIIEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPAS
HQTFPLQLENGQAMECTVAQYFKQKYSLQLKHPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQ
TSTMIKATARSAPDRQEEISRLVKSNSMVGGPDPYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTVA
TPSQGVWDMRGKQFYAGIEIKVWAVACFAPQKQCREDLLKSFTDQLRKISKDAGMPIQGQPCFCKYAQGA
DSVEPMFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPQTLSNLCLKMN
AKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDGHPSRYCATVRVQTSRQEI
TQELLYSQEVVQDLTSMARELLIQFYKSTRFKPTRIIYYRGGVSEGQMKQVAWPELIAIRKACISLEEDY
RPGITYIVVQKRHHTRLFCADKMERVGKSGNVPAGTTVDSTVTHPSEFDFYLCSHAGIQGTSRPSHYQVL
WDDNCFTADELQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKDHDSAEGSHVSGQSNGRD
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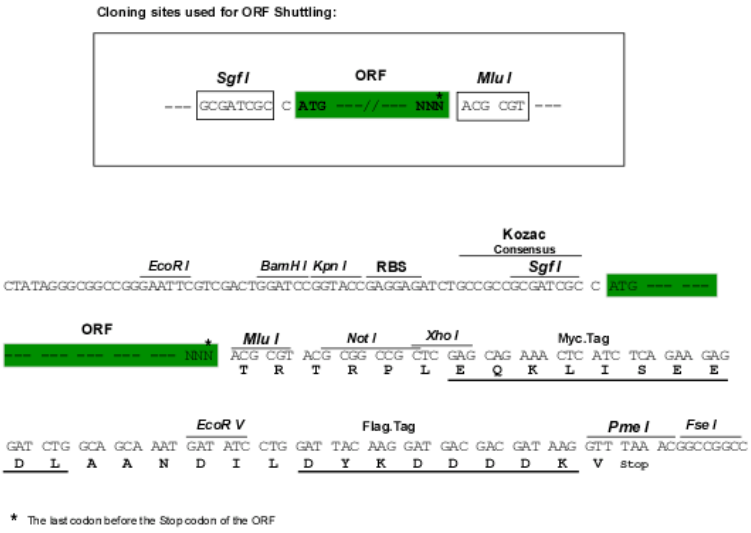
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

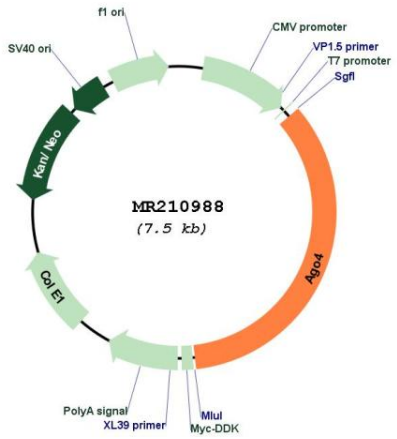
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_153177
ORF Size:	2586 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_153177.3, NP_694817.2
RefSeq Size:	6527 bp
RefSeq ORF:	2586 bp
Locus ID:	76850
UniProt ID:	Q8CJF8
Cytogenetics:	4 D2.2
MW:	97 kDa
Gene Summary:	Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) and represses the translation of mRNAs which are complementary to them. Lacks endonuclease activity and does not appear to cleave target mRNAs.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210988