

Product datasheet for **RR210245**

Ago2 (NM_021597) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ago2 (NM_021597) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ago2
Synonyms:	Eif2c2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210245 representing NM_021597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTACCATGTACTCGGGAGCCGGCCCCGTTCTTTCGCTCTCCTGCTCCGACAACATCACCCATCCCAG
 GATATGCCTTCAAGCCTCCACCTCGGCCGATTTCGGCACCACCGGAGACAATCAAACCTACAGGCCAA
 TTTCTTTGAAATGGACATCCCCAAAATTGACATCTACTATGAATTGGACATCAAACCTGAGAAATGC
 CCTCGGAGAGTGAACAGGGAAATAGTGGAGCATATGGTCCAGCACTTTAAAACCCAGATCTTCGGGGACC
 GGAAGCCAGTGTGGTGGACGGAAGAATCTGTACACAGCTATGCCCTTCCAATTGGCAGGGACAAGGT
 GGAAGTGGAGGTACGCTGCCAGGAGAAGGCAAGATCGCATCTCAAGGTATCCATCAAGTGGGTATCC
 TGCGTGAGCTTGACGGCTTACACGATGCACTTTCGGGGCGGCTGCCAGCGTCCCCTTCGAGACGATCC
 AGGCCCTGGACGTTGTCATGAGGCACTTCCATCCATGAGGTACACCCCTGTTGGCCGTTCTTCTTCCAC
 TGCATCGAAGGCTGTTCCAACCTCTGGGAGGGGCGAGAGAAGTGTGGTTTGGCTTCCATCAGTCCGTC
 CGACCTTCTCTTTGAAAATGATGCTGAACATCGATGTATCAGCAACAGCATTTTACAAGGCACAGCCAG
 TGATCGAGTTTGTGGTGAAGTGTGGATTTTAAAAGTATTGAAGAACAACAAAAACCTCTGACAGATTC
 CCAAAGGGTAAAGTTTACCAAAGAAATTAAGGTCTAAAGGTGGAGATAACGCACTGTGGTCCAGTGAAG
 AGGAAATACCGTGTCTGCAATGTGACCCGGCGCCTGCCAGTCAACAAACGTTCCCACTGCAGCAGGAGA
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 GTTGCTGGACAGAGATGTATAAAAAATTAACAGACAATCAGACCTCAACCATGATCAGAGCAACTGCCA
 GGTGAGCAGCCGATCGGCAAGAGGAGATCAGCAAATTGATGCGAAGTCAAGTTTCAATACAGACCCGTA
 TGTTTCGTGAATTTGGGATCATGGTGAAGATGAGATGACAGATGTGACAGGACGGGTTCTGCAGCCGCC
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 AGAAGTCCATCTCAAGTCTTACAGAGCAACTGAGGAAGATCTCAAGAGATGCTGGGATGCCTATCCAG
 GGTGAGCCCTGCTTCTGTAATACGCACAGGGGCGAGACAGTGTGGAACCCATGTTCCGACACCTGAAGA
 ACACATACGCTGGTCTCCAGCTGGTGGTGGTTATCCTGCCTGGCAAGACTCCTGTGTACGCGGAAGTCAA
 GCGTGTGGGAGACAGGTGCTGGGCATGGCCACGCAAGTGTCCAGATGAAGAACGTGCAGAGGACCACG
 CCACAGACCTATCCAATCTCTGCTTAAAGATCAATGTCAAACCTGGGAGGAGTCAACAACATCCTGCTGC
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 GCCACCGTGCAGCTACAGCAGCACCAGGAGATCATCCAGGACCTGGCTGCTATGGTGCAGAGCTGC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR210245 representing NM_021597
Red=Cloning site Green=Tags(s)

MLPMYSGAGPVLASPAPTTSPIPGYAFKPPRPDPFGTTGRTIKLQANFFEMDIPKIDIYHYELDIKPEKC
PRRVNREIVEHMQHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEGKDRIFKVSIKWVS
CVSLQALHDALSGRLPSVPFETIQALDVVMRHLPSMRYTPVGRSFFTASEGCSNPLGGREVFQGFHQS
RPSLWKMMMLNIDVSATAFYKAQPVIEFVCEVLDFKSIEEQKPLTDSQRVKFTKEIKGLKVEITHCGQMK
RKYRVCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNI
VAGQRCIKKLTDNQSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPP
SILYGGRNKAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTEQLRKISR DAGMPIQ
GQPCFCKYAQGADSV EPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLMATQCVQMKNVQRTT
PQTL SNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYC
ATVRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEK
EYQPGITFIVVQKRHHTRLFCTDKNERVGKSGNIPAGTTVDTKITHPTEFDYLC SHAGIQGTSRPSHYH
VLWDDNRFSSDELQILTYQLCHTYVRCRVSIPAPAYY AHLVAFRARYHLVDKEHDSAEGSHTSGQSN
RDHQALAKAVQVHQDTLRTMYFA

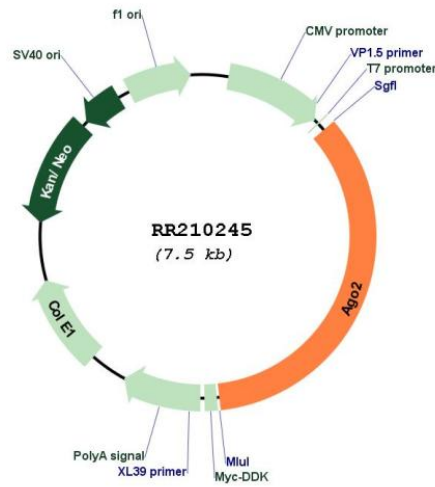
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_021597
ORF Size:	2589 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_021597.1 , NP_067608.1
RefSeq Size:	2626 bp
RefSeq ORF:	2592 bp
Locus ID:	59117
UniProt ID:	Q9QZ81
Cytogenetics:	7q34
MW:	97.7 kDa
Gene Summary:	may have important roles in development and exert the effects on cell differentiation from the level of intracellular membranes [RGD, Feb 2006]