

Product datasheet for MR212006

Aqr (NM_009702) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aqr (NM_009702) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aqr
Synonyms:	AW495846; mKIAA0560
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212006 representing NM_009702 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCTGCGCAGCCCAAGAAAATCGTGGCCCCACGGTGTCCAGATCAACGGGAGTTCGTCA
CTCAGCTAGCATGTAATACTGGGCTCCTCATCAAGAAGAAATCACCGTTTGATATAAAAAGTAATTGA
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CAATACCTTGAAAATTATCTTTGGATGAATTATCTCCGGAAGTTTCCAGCAAGGCCTATTTAATGTCCA
TCTGCTGTATGGTGAATGAGAAGTTCAGAGAAAATGTCCAGCCTGGGAGACCTTTAAGAAGAAACCAGA
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CAGCAGCAGACTGCTCCTGCTTTTCTGGATCACTGCTTCAATAGCTTGAAGTAGACTTGATAAGGA
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AGTCCATCCCGCTTTCTGAGCCTGTCCCATGGACAAGGTTTACTGTGAAAGATTATCGAAGTGTG
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AGAATGAAGCCCTGGCAGTCTGAGTATGGTGGCGTAGTGTTCCGGTGGTTGGGCACGGATGGCCAGCCCA
TTGTGGCTTTCACTGTAGTCGAGGTTGCCAAACCAACATCGGTGAAAACCTGGCCAAACCCGAGTTCGTGC
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CAAGATGCAGAGTCTGTCCACAGAGACCGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >MR212006 representing NM_009702
 Red=Cloning site Green=Tags(s)

MAAPAQPKKIVAPTVSQINAEFVTQLACKYWAPHIKKSPFDIKVIEEIEYEKEIVKSRAIRKIMLLEFS
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 HEQTLLEFLDHCNFNSLEVDLIRSQVQQLISLPMWMLQPARELELKKTPKLRKFWNLIKKNDKMDPE
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 FALSNAEVDARDSLVKFFGPLSSNTLHQVASYLCLLPTLPKNEDTTFDKEFLLELLVSRHERRISQIQQ
 LNQMPLYPTEKIIWDENIVPTEYSGEGCLALPKLNLQFLTLHDYLLRNFNLFRELESTYERQDIEDSVS
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 VCFLLITVRPTKPYGTFKDRRRPPIEQVGLVYVVGCEIQGMLDDKGRVIEDGPEPRPNLREGSRTFRVFLD
 PNQYQQDMTNTIQNGAEDVYDTFNVIMRRKPKENNFKAVLETIRNLMNTDCVVPDWLHDIILGYGDPSSA
 HYSKMPNQIATLDFNDTFLSIEHLKASFPGHNVKVTVSDPALQIPPFRTIFPVRSGKGKRRKDADGEEDD
 TEEAKTLIVEPHVIPNRGPYPYNQPKRNTIQFHTHTQIEAIRAGMQPGLTMVVGPPGTGKTDVAVQIISNI
 YHNFPEQRTLIVTHSNQALNQLFEKIMALDIDERHLLRLGHGEEETEEDKDFSRVGRVNYVLARRIELLE
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 APQPIFKGRSYEEDMIEAEGCFRHIKKIFTQLEEFRASELLRSGLDKSKYLLVKEAKIIMTCTHAALKR
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 QDAESVPTETE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_h10.zip

Restriction Sites: SgfI-MluI

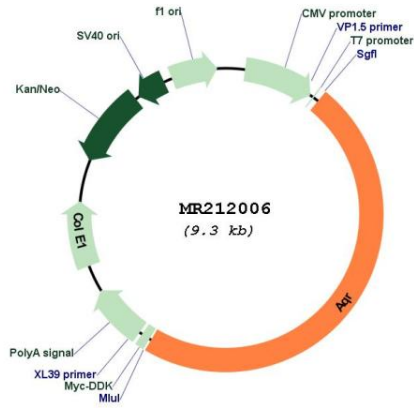
Cloning Scheme:



ACCN: NM_009702

ORF Size:	4443 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_009702.3 , NP_033832.2
RefSeq Size:	4897 bp
RefSeq ORF:	4446 bp
Locus ID:	11834
UniProt ID:	Q8CFQ3
Cytogenetics:	2 57.57 cM
MW:	170.7 kDa
Gene Summary:	Involved in pre-mRNA splicing as component of the spliceosome. Intron-binding spliceosomal protein required to link pre-mRNA splicing and snoRNP (small nucleolar ribonucleoprotein) biogenesis. Plays a key role in position-dependent assembly of intron-encoded box C/D small snoRNP, splicing being required for snoRNP assembly. May act by helping the folding of the snoRNA sequence. Binds to intron of pre-mRNAs in a sequence-independent manner, contacting the region between snoRNA and the branchpoint of introns (40 nucleotides upstream of the branchpoint) during the late stages of splicing. Has ATP-dependent RNA helicase activity and can unwind double-stranded RNA molecules with a 3' overhang (in vitro). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212006