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Product datasheet for MR212004

A2m (NM_175628) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A2m (NM_175628) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A2m
Synonyms:	A2mp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR212004 representing NM_175628
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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GAGGCTGTGCTGGAGCGGAAGGAGTTGGTCTTCTATTATCTGATGATGGCAAAGGGAGGCATTGTTCGGG
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Protein Sequence:

>MR212004 representing NM_175628
Red=Cloning site Green=Tags(s)

MGKRWLPSLALLPLPPPLLLLLLLLLPTNASAPQKPIYMVMVPSLLHAGTPEKGCLLFNHLNETVTVKVS
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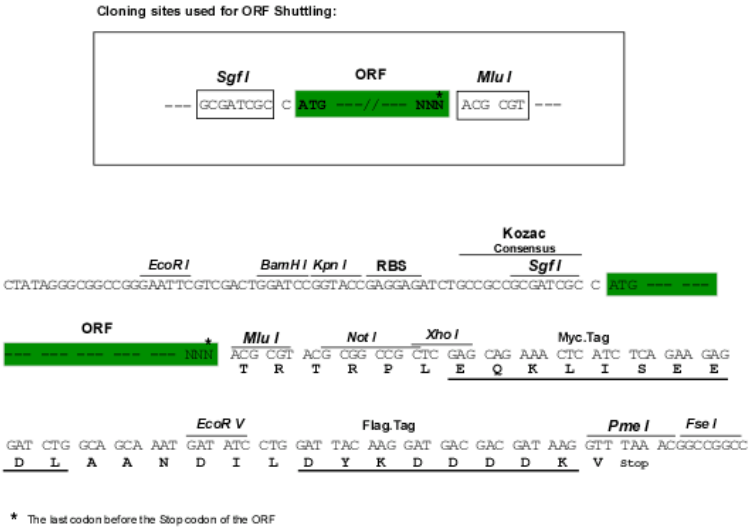
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9006_b05.zip

Restriction Sites: SgfI-MluI

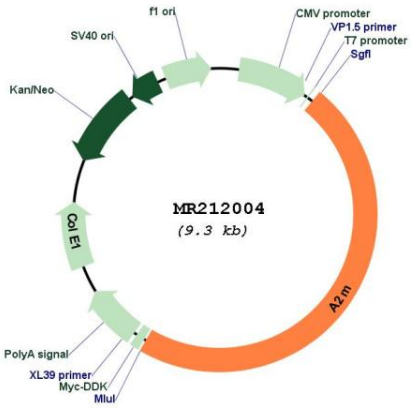
Cloning Scheme:



ACCN: NM_175628

ORF Size:	4422 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_175628.1, NM_175628.2, NM_175628.3, NP_783327.2
RefSeq Size:	4687 bp
RefSeq ORF:	4425 bp
Locus ID:	232345
UniProt ID:	Q6GQT1
Cytogenetics:	6 57.49 cM
MW:	164.8 kDa
Gene Summary:	Is able to inhibit all four classes of proteinases by a unique 'trapping' mechanism. This protein has a peptide stretch, called the 'bait region' which contains specific cleavage sites for different proteinases. When a proteinase cleaves the bait region, a conformational change is induced in the protein which traps the proteinase. The entrapped enzyme remains active against low molecular weight substrates (activity against high molecular weight substrates is greatly reduced). Following cleavage in the bait region a thioester bond is hydrolyzed and mediates the covalent binding of the protein to the proteinase (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212004