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Product datasheet for MR206472

Ass1 (NM_007494) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ass1 (NM_007494) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ass1
Synonyms:	AA408052; ASS; Ass-1; fold
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206472 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCAGCAAGGGCTCTGTGGTTCTGGCCTACAGTGGTGGCCTGGACACCTCCTGCATCCTCGTGTGGC
TGAAGGAACAAGGCTATGATGTCATCGCCTACCTGGCCAACATTGGCCAGAAGGAAGACTTTGAGGAAGC
CAGGAAGAAGGCGCTGAAGCTTGGGGCCAAAAAGGTGTTCATTGAGGATGTGAGCAAGGAATTTGTGGAA
GAGTTCATCTGGCCTGCTGTCCAGTCCAGTGCACTCTACGAGGACCGCTATCTCCTGGGCACCTCTCTCG
CCAGGCCTTGCATAGCTCGCAGACAGGTGGAGATTGCCCAGCGTGAAGGGGCCAAGTATGTGTCTCACGG
CGCCACGGGAAAGGGGAATGACCAGGTCCGCTTTGAGCTCACCTGCTACTCACTGGCACCCCAGATTAAG
GTCATCGCTCCCTGGAGGATGCCTGAGTTTTACAACCGGTTCAAGGGCCGAAATGATCTGATGGAGTATG
CAAAGCAACACGGAATCCCCATCCCTGTCACCCCCAAGAGCCCCTGGAGTATGGATGAAAACCTCATGCA
CATCAGCTATGAGGCTGGGATCCTGGAAAACCCCAAGAATCAAGCACCTCCGGGTCTCTACACAAAAACT
CAGGACCCTGCCAAAGCACCCAACAGCCCAGATGTCCTTGAGATAGAATTCAAAAAAGGGGTCCCTGTGA
AGGTGACCAACATCAAAGATGGCACAACCCGCACCACATCCCTGGAACTCTTCATGTACCTGAACGAAGT
TGCGGGCAAGCACGGAGTGGGTCGCATTGACATCGTGGAGAACCGCTTCATTGGAATGAAGTCCCGAGGT
ATCTACGAGACCCCAGCAGGGACCATCCTTTACCACGCTCATTTAGACATAGAGGCCTTCACGATGGATC
GGGAAGTACGCAAAATCAAGCAGGGCCTGGGCCTCAAATTCGCAGAGCTCGTATACACAGGTTTCTGGCA
CAGCCCTGAATGTGAATTTGTTCGCCACTGTATCCAGAAGTCCCAGGAGCGGGTAGAAGGGAAGGTGCAG
GTGTCTGTCTTCAAGGGCCAAGTGTACATCCTCGGTCGGGAGTCTCCACTTTCACTCTACAATGAAGAGC
TGGTGAGCATGAACGTACAGGGCGACTATGAGCCCATCGACGCCACTGGCTTCATCAATATCAACTCGCT
CAGGCTGAAGGAGTACCATCGCCTTCAGAGCAAGGTCACTGCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

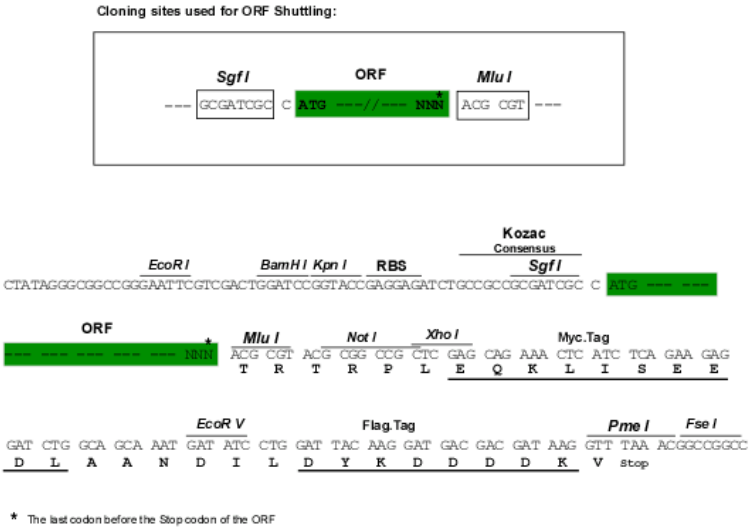
>MR206472 protein sequence
Red=Cloning site Green=Tags(s)

MSSKGSVVLAYSGGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSKEFVE
EFIWPAVQSSALYEDRYLLGTSLARPCIARRQVEIAQREGAKYVSHGATGKGNDQVRFELTCYSLAPQIK
VIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIPVTPKSPWSMDENLMHISYEAGILENPKNQAPPGLYTKT
QDPAKAPNSPDVLEIEFKKGVPVKVTNIKDGTTRTTSLELFMYLNEVAGKHGVGRIDIVENRFIGMKSRG
IYETPAGTILYHAHLDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECEFVRHCIQKSQERVEGKVQ
VSVFKGQVYILGRESPLSLYNEELVSMNVQGDYEPIDATGFININSLRLKEYHRLQSKVTAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007494

ORF Size: 1236 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_007494.2

RefSeq Size: 1631 bp

RefSeq ORF: 1239 bp

Locus ID: 11898

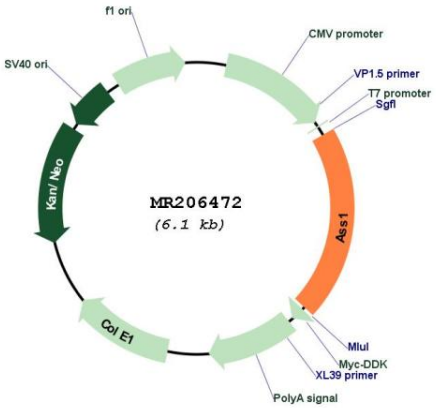
UniProt ID: P16460

Cytogenetics: 2 21.81 cM

MW: 46.6 kDa

Gene Summary: One of the enzymes of the urea cycle, the metabolic pathway transforming neurotoxic amonia produced by protein catabolism into inocuous urea in the liver of ureotelic animals. Catalyzes the formation of arginosuccinate from aspartate, citrulline and ATP and together with ASL it is responsible for the biosynthesis of arginine in most body tissues. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206472