

Product datasheet for MC207991

Ass1 (NM_007494) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ass1 (NM_007494) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ass1
Synonyms:	AA408052; ASS; Ass-1; fold
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207991 representing NM_007494 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCAAGGGCTCTGTGGTCTGGCCTACAGTGGTGGCCTGGACACCTCCTGCATCCTCGTGTGGC
TGAAGGAACAAGGCTATGATGTCATCGCCTACCTGGCCAACATTGGCCAGAAGGAAGACTTTGAGGAAGC
CAGGAAGAAGGCGCTGAAGCTTGGGGCCAAAAGGTGTTTCATTGAGGATGTGAGCAAGGAATTTGTGGAA
GAGTTCATCTGGCCTGCTGTCCAGTCCAGTGCCTCTACGAGGACCGCTATCTCCTGGGCACCTCTCTCG
CCAGGCCCTTGATAGCTCGCAGACAGGTGGAGATTGCCAGCGTGAAGGGGCCAAGTATGTGTCTCACGG
CGCCACGGGAAAGGGGAATGACCAGTCCGCTTTGAGCTCACCTGCTACTCACTGGCACCCAGATTAAG
GTCATCGCTCCCTGGAGGATGCCTGAGTTTTACAACCGTTCAAGGGCCGAAATGATCTGATGGAGTATG
CAAAGCAACACGGAATCCCCATCCCTGTCAACCCCAAGAGCCCTGGAGTATGGATGAAAACCTCATGCA
CATCAGCTATGAGGCTGGGATCCTGGAAAACCCCAAGAATCAAGCACCTCCGGGTCTCTACAAAAA
CAGGACCTGCCAAAGCACCCAACAGCCAGATGTCTTGAGATAGAATCAAAAAAGGGTCCCTGTGA
AGGTGACCAACATCAAAGATGGCACAACCCGCACCACATCCCTGGAACCTTTCATGTACCTGAACGAAGT
TGCGGGCAAGCACGGAGTGGGTGCGATTGACATCGTGGAGAACCGCTTCATTGGAATGAAGTCCCGAGGT
ATCTACGAGACCCAGCAGGGACCATCCTTTACCACGCTCATTTAGACATAGAGGCCCTTCCAGTGGATC
GGGAAGTACGCAAAATCAAGCAGGGCCTGGGCCTCAAATTCGCAGAGCTCGTATACACAGGTTTCTGGCA
CAGCCCTGAATGTGAATTTGTTCCCACTGTATCCAGAAGTCCCAGGAGCGGGTGAAGGGAAGGTGCAG
GTGTCTGTCTTCAAGGGCCAAGTGTACATCCTCGGTCGGGAGTCTCCACTTTCCTCTACAATGAAGAGC
TGGTGAGCATGAACGTACAGGGCGACTATGAGCCATCGACGCCACTGGCTTCATCAATATCAACTCGCT
CAGGCTGAAGGAGTACCATCGCCTTCAGAGCAAGGTCCTGCCAAATAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_007494
Insert Size:	1239 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_007494.3 , NP_031520.1
RefSeq Size:	1631 bp
RefSeq ORF:	1239 bp
Locus ID:	11898
UniProt ID:	P16460
Cytogenetics:	2 21.81 cM
Gene Summary:	<p>One of the enzymes of the urea cycle, the metabolic pathway transforming neurotoxic ammonia produced by protein catabolism into innocuous 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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>