

Product datasheet for **MG206472**

Ass1 (BC002074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ass1 (BC002074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ass1
Synonyms:	AA408052; ASS; Ass-1; fold
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206472 representing BC002074 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGCAAGGGCTCTGTGGTCTGGCCTACAGTGGTGGCCTGGACACCTCCTGCATCCTCGTGTGGC
TGAAGGAACAAGGCTATGATGTCATCGCCTACCTGGCCAACATTGGCCAGAAGGAAGACTTTGAGGAAGC
CAGGAAGAAGGGCTGAAGCTTGGGGCCAAAAGGTGTTTCATTGAGGATGTGAGCAAGGAATTTGTGGAA
GAGTTCATCTGGCCTGCTGTCCAGTCCAGTGCCTCTACGAGGACCGCTATCTCCTGGGCACCTCTCTCG
CCAGGCCTTGATAGCTCGCAGACAGGTGGAGATTGCCAGCGTGAAGGGGCCAAGTATGTGTCTCACGG
CGCCACGGGAAAGGGGAATGACCAGTCCGCTTTGAGCTCACCTGCTACTCACTGGCACCCAGATTAAG
GTCATCGCTCCCTGGAGGATGCCTGAGTTTTACAACCGTTCAAGGGCCGAAATGATCTGATGGAGTATG
CAAAGCAACACGGAATCCCCATCCCTGTCAACCCCAAGAGCCCTGGAGTATGGATGAAAACCTCATGCA
CATCAGCTATGAGGCTGGGATCCTGGAAAACCCCAAGAATCAAGCACCTCCGGGTCTCTACAAAAA
CAGGACCCTGCCAAAGCACCCAACAGCCAGATGTCTTGAGATAGAATCAAAAAAGGGTCCCTGTGA
AGGTGACCAACATCAAAGATGGCACAACCCGCACCACATCCCTGGAACCTTTCATGTACCTGAACGAAGT
TGCGGGCAAGCACGGAGTGGGTGCGATTGACATCGTGGAGAACCGCTTCATTGGAATGAAGTCCCGAGGT
ATCTACGAGACCCAGCAGGGACCATCCTTTACCACGCTCATTTAGACATAGAGGCCCTTCACGATGGATC
GGGAAGTACGCAAAATCAAGCAGGGCCTGGGCCTCAAATTCGAGAGCTCGTATACACAGGTTTCTGGCA
CAGCCCTGAATGTGAATTTGTTCCCACTGTATCCAGAAGTCCCAGGAGCGGGTGAAGGAAGGTGCAG
GTGTCTGTCTTCAAGGGCCAAGTGTACATCCTCGGTGGGAGTCTCCACTTTCACTCTACAATGAAGAGC
TGGTGAGCATGAACGTACAGGGCGACTATGAGCCATCGACGCCACTGGCTTCATCAATATCAACTCGCT
CAGGCTGAAGGAGTACCATCGCCTTCAGAGCAAGGTCAGTCCAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG206472 representing BC002074
 Red=Cloning site Green=Tags(s)

MSSKGSVVLAYSGLDTSFILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSKEFVE
 EFIWPAVQSSALYEDRYLLGTSLARPCIARRQVEIAQREGAKYVSHGATGKGNQVRFELTCYSLAPQIK
 VIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIVTPKSPWSMDENLMHISYEAGILENPKNQAPPGLYTKT
 QDPAKAPNSPDVLEIEFKKGVPVKVTNIKDGTTRTTSLELFMYLNEVAGKHGVRIDIVENRFIGMKS
 RGIYETPAGTILYHAHLIDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECFVVRHCIQKSQERVEGK
 VQVSVFKGQVYILGRESPLSLYNEELVSMNVQGDYEPIDATGFININSLRLKEYHRLQSKVTAK

TRTRPLE - GFP Tag - V

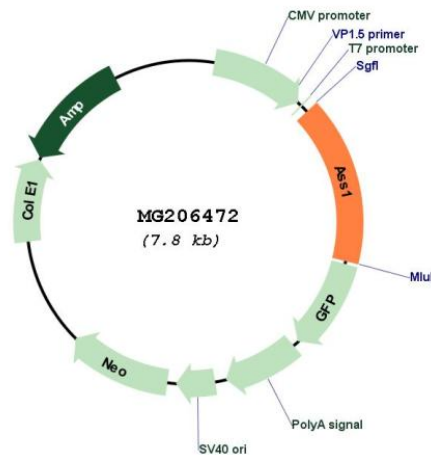
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC002074

ORF Size:	1238 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:	BC002074 , AAH02074
RefSeq Size:	1645 bp
RefSeq ORF:	1238 bp
Locus ID:	11898
Cytogenetics:	2 21.81 cM
Gene Summary:	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. [UniProtKB/Swiss-Prot Function]