

Product datasheet for RR214954

Ass1 (NM_013157) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ass1 (NM_013157) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ass1
Synonyms:	Ass; ASSA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214954 representing NM_013157 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCAGCAAGGGCTCTGTGGTTCTGGCCTACAGTGGTGGTCTGGACACCTCCTGCATCCTCGTGTGGC
TGAAGGAACAAGGCTATGATGTCATCGCCTACCTGGCCAAATTGGCCAGAAGGAAGACTTTGAGGAAGC
CAGGAAGAAGGCACTGAAGCTTTGGGGCCAAAAAGGTGTTCAATTGAGGATGTAAGCAAGGAGTTTGTGGAA
GAGTTCATCTGGCCTGCTGTCCAGTCCAGTGCCTCTATGAGGACCGCTATCTCCTAGGCACCTCTCTCG
CCAGGCCTTGATAGCTCGCAAACAAGTGGAAATTGCCAGCGCGAAGGGGCCAAGTATGTGTCTCACGG
CGCCACGGGGAAGGGCAATGACCAGGTCGCTTTGAGCTCACCTGCTACTCGTTAGCACCCAGATTAAG
GTCATCGCCCCCTGGAGGATGCCCGAGTTTACAACCGGTTCAAGGGCCGAAATGATTTGATGGAATACG
CAAAGCAACATGGAATCCCCATCCCTGTCACCCCAAGAGCCCTGGAGCATGGATGAGAACCTTATGCA
CATCAGCTACGAGGCTGGAATCCTGGAAAACCCCAAGAACCAAGCACCTCCAGGTCTCTACAAAAA
CAGGACCCTGCCAAAGCACCCAACCCAGATGTCCTTGAGATAGAATCAAAAAAGGGTCCCTGTGA
AGGTGACCAACGTCAAAGATGGCACTACCCACAGCACATCCTTGGACCTTTCATGTACCTGAATGAAGT
TGCGGGCAAGCATGGAGTAGGGCGATTGACATCGTGGAGAACCCTTCATTGGAATGAAGTCCCGGGT
ATCTACGAGACCCAGCAGGACCATCCTTTACCACGCTCATTTAGACATAGAGGCTTCCACATGGATC
GGGAAGTACGAAAAAACAAGCAGGGCCTGGGCCTCAAATTCGAGAGCTCGTATACACCGGTTTCTGGCA
CAGCCCTGAATGTGAATTTGTTCCGCACTGCATCGACAAGTCCCAGGAACGGGTGGAAGGAAAGGTGCAG
GTATCTGTCTTCAAGGGCCAGGTGTACATCCTTGGCCGGGAGTCTCCACTTTCACATACAATGAAGAGC
TGGTGAGCATGAACGTACAGGTGACTATGAACCCATTGATGCCACCGGTTTCATCAATATCAACTCGCT
CAGGCTGAAGGAGTACCATCGCTTCCAGAGCAAGGTACCAGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214954 representing NM_013157
Red=Cloning site Green=Tags(s)

MSSKGSVVLAYSGLDTSILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSKEFVE
 EFIWPAVQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNQVRFELTCYSLAPQIK
 VIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIVTPKSPWMDENLMHISYEAGILENPKNQAPPGLYTKT
 QDPAKAPNTPDVLEIEFKKGVPVKVTNVKDGTTTSLDLFMYLNEVAGKHGTVGRIDIVENRFIGMKS
 RGIYETPAGTILYHAHLIDIEAFTMDREVRIKQGLGLKFAELVYTGFWHSPECFVVRHCIDKSQERVEGKQV
 VSVFKGQVYILGRESPLSLYNEELVSMNVQGDYEPIDATGFININSLRLKEYHRLQSKVTAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

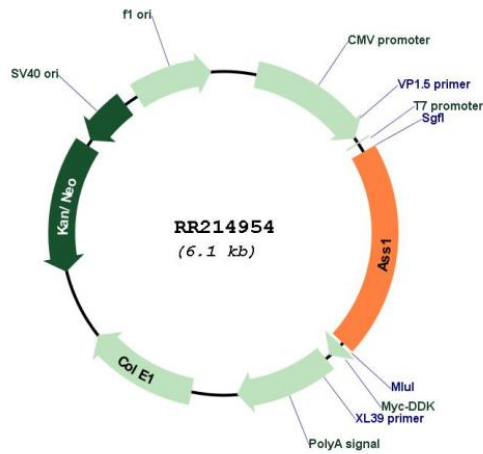
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_013157

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:	<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_013157.3 , NP_037289.1
RefSeq Size:	1495 bp
RefSeq ORF:	1239 bp
Locus ID:	25698
UniProt ID:	P09034
Cytogenetics:	3p12
MW:	46.5 kDa
Gene Summary:	catalyzes the conversion of ATP, L-citrulline, and L-aspartate to AMP, diphosphate, and L-argininosuccinate in arginine biosynthesis; may regulate nitric oxide production [RGD, Feb 2006]