

Product datasheet for **MC229391**

Asap1 (NM_001276462) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Asap1 (NM_001276462) Mouse Untagged Clone
Tag: Tag Free
Symbol: Asap1
Synonyms: AV239055; Ddef1; DEF-1; mKIAA1249; PAP; s19
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229391 representing NM_001276462
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGACCAGATCTCCGTGTCCGAGTTCATCGCCGAGACCACCGAGGACTACAACCTGCCACCACGT
 CCAGCTTACCACGCGGCTGCACAACCTGCAGGAACACCGTCACGCTGCTGGAGGAGGCTCTAGACCAAGA
 TAGAACAGCCCTACAGAAAGTGAAGAACTGTAAAAGCAATATATAATTCGGTCAAGATCATGTACAA
 AATGAAGAAAACCTATGCACAAGTTCTGGATAAGTTTGGAAAGTAAATTTTTAAGCAGAGACAACCCGACC
 TTGGCACCCTTTTGTCAAGTTTCTACACTCACAAAGGAACTGTCCACGCTGCTGAAAAATCTGTCCA
 GGGTCTGAGCCACAATGTGATCTTACCTTGGATTCTTGTAAAAGGAGACTTGAAGGGGGTCAAAGGA
 GATCTCAAGAAGCCATTTGACAAAGCCTGGAAAGATTATGAGACGAAGTTTACAAAAATTGAGAAGGAGA
 AAAGAGAGCACGCAAAACAGCACGGGATGATCCGAACAGAGATAACAGGCGCTGAGATTGCAGAAGAAAT
 GGAAAAGGAACGGCGGCTTTTTCAGCTCCAGATGTGTGAATATCTCATTAAAGTAAATGAAATCAAGACC
 AAAAAGGGTGTGGACCTGCTGCAGAACCTTATAAAGTATTACCATGCACAGTGCAATTTCTTTCAGGATG
 GCTTGAACCGGCTGATAAACTGAAACAGTACATAGAAAAGCTGGCTGCTGACTTATAATATAAAGCA
 AACCCAAGATGAAGAAAAAACAGCTAACTGCACTCCGAGATCTAATAAAATCCTCTCTGCAACTTGAT
 CCGAAAAGAAGTAGGTGGTTTATATGTTGCCAGCAGGGCTAACAGTGACTCTCAGAGCCGGCAAGGTGGT
 ACAGCATGCATCAGTCCAGGGCAACAAGGAGTACGGCAGTGAAGAAGGGCTTCTGTGAAAGAAGAG
 TGATGGGATCCGGAAAGTGTGGCAGAGACGGAAGTGTGCGGTCAAGAACGGGATCCTGACCATCTCCAC
 GCAACTTCCAACAGGCAGCCTGCTAAGTTAAACCTCCTCACCTGCCAAGTGAACCGAATGCTGAGGACA
 AGAAGTCTTTGACCTGATATCACATAATCGAACATATCACTTTCAAGCAGAAGATGAGCAGGATTATAT
 AGCGTGGATATCAGTACTGACGAATAGCAAAGAAGAGGCCCTAACCATGGCTTCCGTGGTGAAGCAGAGC
 ACAGGGGAGAATAGCCTGGAGGACCTTACCAAAGCCATCATCGAGGATGTACAGCGGCTCCCTGGGAATG
 ACATCTGCTGTGACTGCGGCTCATCAGAACCCAGTGGCTTTCAACCAACTTGGGTATTTTGACCTGAT
 AGAATGTTCCGGAATCCATAGGGAAATGGGGTTCATATTTCTCGCATTGAGTCTTTGAACTAGACAAA
 TTAGGAACCTCCGAACCTTGTGGCAAGAATGTAGGAAACAATAGTTTAAATGATATTATGGAAGCAA



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ATTTACCCAGCCCTTCACCAAAGCCACCCCTTCAAGTGATATGACCGTGCGTAAAGAGTACATCACTGC
 AAAGTATGTGCGACCACCCTTCTCCAGGAAGACCTGTGCCTCTTCTCAGCAAAGCTGAACGAATTGCTT
 GAGGCCATCAAGTCCAGGGACTTACTTGCATTAATCCAAGTCTATGCAGAGGGGGTGGAGTTAATGGAGC
 CACTGTGGAACCTGGGCAGGAGCTCGGGGAGACAGCCCTTCATCTTGCCGTGAGACCCGACAGCCAGAC
 ATCTCTCCATCTGGTTGATTTCCCTGTACAAAACCTGTGGGAACCTGGATAAGCAAACGTCTGTGGGAAT
 ACAGTTCTGCACATTGCGAGCATGTACGGCAAGCCGGAGTGTCTGAAGCTGCTGCTTAGGAGCAAGCCCA
 CCGTGGACATCGTTAACCAAGATGGAGAACTGCCTTGGATATAGCAAAGAGACTCAAAGCTACCCAGTG
 TGAAGATCTGCTTCCAGGCTAAATCTGGAAAGTTCAACCCTCATGTCCACGTAGAGTATGAGTGGAAAT
 CTTGACAGGACGAGATGGATGAGAGCGATGACGATCTGGATGACAAGCCAAGCCCGATCAAAAAGGAAC
 GCTCGCCAGACCACAGAGCTTCTGCCACTCTCCAGCATCTCGCCACAGGACAAGCTGGCACTGCCAGG
 GTTCAGCACTCCACGGGACAAGCAGCGCTCTCTACGGAGCCTTACCAACCAGATCTTCGCTCTACG
 AGCACAGATTTGCCACATCACCCACCAGTGGGCTCCCCCTTGGCACCTCGGAACGCCGGAAAGGTC
 CAACTGGCCACCTTCAACTCCCTCTAGGCACCCAGACCTCTAGTGGCAGCTCCACCCTATCCAAGAA
 GAGGCCTCTCCCCACCACCAGGACACAAGAGAACCCTGTCTGACCCTCCAGCCCACTACCTCACGGG
 CCCCCAAACAAAGCGCAATTCTTGGGGTAATGATGTGGGCCATTATCTTCAAGTAAGACGGCCAACA
 AGTTTGAGGGGCTGTCTCAGCAAGCAAGACCAGTTCTGCTAAGACTGCCCTTGGCCGAGAGTGCTTCC
 TAAACTACCTCAGAAAGTGGCACTAAGGAAGACGGAGACCAGCCATCATCTCTCCCTCGACAGAACCAAC
 ATCCCACCTGAGACTTTTCAGAAATCATCACAGTTGACAGAGTTACCCCAAAAGCCACCCTTGGAGAGC
 TGCCCCGAAGCCTGTGGAACCTGGCCCCAAGCCCAAGTTGGAGAGCTGCCACCTAAGCCTGGAGAGCT
 ACCCCCTAAGCCCAATTAGGTGACCTGCCCCCAAGCCACAGCTCTCAGACTTACCTCCAAGCCACAG
 ATGAAGGACCTGCCCCCTAAGCCGACGTGGGGGATCTGCTGGCAAAGTCCCAGGCTGGCGATGTCTCAG
 CCAAGGTGCAGCCACCCTCAGAGGTCACACAGAGGTCACACACCCGGGATCTGTCTCCAATGTACAGTC
 CAGAGATGCCATCCAGAAGCAAGCATCTGAAGACTCCAACGACCTCACACCCAGCTGCCAGAGACACC
 GTACCCTGCCGAGAAAAATCAATACGGGGAAAAATAAAGTGAAGCGGGTGAAGACCATTTATGACTGCC
 AGGCAGATAATGACGACGAACCTCACATTTATTGAGGGGGAAGTGATCATTGTACCAGGGGGAAGGACCA
 GGAGTGGTGGATCGGGCATATCGAAGGACAGCCTGAAAGGAAGGGTGTCTTTCCAGTGTCTTTGTCCAC
 ATCCTGTCTGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001276462
- Insert Size:** 3375 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001276462.1](#), [NP_001263391.1](#)

RefSeq Size: 6181 bp

RefSeq ORF: 3375 bp

Locus ID: 13196

UniProt ID: [Q9QWY8](#)

Cytogenetics: 15 D1

Gene Summary: May function as a signal transduction protein involved in the differentiation of fibroblasts into adipocytes and possibly other cell types. Plays a role in ciliogenesis (By similarity). Possesses phosphatidylinositol 4,5-bisphosphate-dependent GTPase-activating protein activity for ARF1 (ADP ribosylation factor 1) and ARF5 and a lesser activity towards ARF6. May coordinate membrane trafficking with cell growth or actin cytoskeleton remodeling by binding to both SRC and PIP2.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR, uses a downstream start codon, and lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (c) is shorter than isoform a.