

## Product datasheet for **MC229359**

### Asap1 (NM\_001276467) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Asap1 (NM\_001276467) 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:** >MC229359 representing NM\_001276467  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGATCTTCAGCCTCCCGGCTCTCCAGTTTTCTCCAGAGATTCACTATGGAATCGGATGCCGGACC  
AGATCTCCGTGTCGAGTTCATCGCCGAGACCACCGAGGACTACAACCGCCACCACGTCAGCTTCAC  
CAGCGGCTGCACAACCTGCAGGAACACCGTCACGCTGCTGGAGGAGGCTCTAGACCAAGATAGAACGCC  
CTACAGAAAGTGAAGAAATCTGTAAAAGCAATATAAATTCGGTCAAGATCATGTACAAAATGAAGAAA  
ACTATGCACAAGTCTGGATAAGTTTGGAAAGTAATTTTTAAGCAGAGACAACCCTGACCTTGGCACCGC  
TTTTGTCAAGTTTTCTACTCACAAGGAAGTGTCCAGCTGCTGAAAAATCTGCTCCAGGGTCTGAGC  
CACAATGTGATCTTACCTTGGATTCTTGTAAAAGGAGACTTGAAGGGGGTCAAAGGAGATCTCAAGA  
AGCCATTTGACAAAGCCTGAAAAGATTATGAGACGAAGTTTACAAAAATTGAGAAGGAGAAAAGAGAGCA  
CGCAAAACAGCACGGGATGATCCGAACAGAGATAACAGGCGCTGAGATTGCAGAAGAAATGAAAAAGGAA  
CGGCGGCTTTTTCAGCTCCAGATGTGTGAATATCTCATTAAAGTAAATGAAATCAAGACCAAAAAGGGTG  
TGGACCTGCTGCAGAACCTTATAAGTATTACCATGCACAGTGCATTTCTTTTCAGGATGGCTTAAAAAC  
GGCTGATAAACTGAAACAGTACATAGAAAAGCTGGCTGCTGACTTATATAAATAAAGCAAAACCCAAAGAT  
GAAGAAAAAAACAGCTAACTGCACTCCGAGATCTAATAAAATCCTCTCTGCAACTTGATCCGAAAAGAG  
TAGGTGGTTTATGTTGCCAGCAGGGCTAACAGTTCTAGAAGAGACTCTCAGAGCCGGCAAGTGGGTA  
CAGCATGCATCAGCTCCAGGGCAACAAGGAGTACGGCAGTAAAAAGAAGGGCTTCTGCTGAAGAAGAGT  
GATGGGATCCGAAAAGTGTGGCAGAGACGGAAGTGTGCGGTCAAGAACGGGATCTGACCATCTCCCACG  
CAACTTCAACAGGCAGCCTGCTAAGTTAAACCTCCTCACCTGCCAAGTAAAACCGAATGCTGAGGACAA  
GAAGTCTTTTTCAGCTGATATCACATAATCGAACATATCACTTTCAAGCAGAAGATGAGCAGGATTATATA  
GCGTGGATATCAGTACTGACGAATAGCAAAGAAGAGGCCCTAACCATGGCCTTCCGTGGTGAGCAGAGCA  
CAGGGGAGAAATAGCCTGGAGGACCTTACCAAAGCCATCATCGAGGATGTACAGCGGCTCCCTGGGAATGA  
CATCTGCTGTGACTGCGGCTCATCAGAACCACGTGGCTTTCAACCAACTGGGTATTTTTCAGCTGTATA  
GAATGTTCCGGAATCCATAGGGAATGGGGTTTCAATTTCTCGCATTAGTCTTTGGAAGTACAGCAAT



TAGGAACTTCGAACTCTTGCTGGCCAAGAATGTAGGAAACAATAGTTTTAATGATATTATGGAAGCAAA  
 TTTACCCAGCCCTTACCAAAGCCACCCCTTCAAGTGATATGACCGTGCCTAAAGAGTACATCACTGCA  
 AAGTATGTCGACCACCGCTTCTCCAGGAAGACCTGTGCCTCTTCTCAGCAAAGCTGAACGAATTGCTTG  
 AGGCCATCAAGTCCAGGGACTTACTTGCATTAATCCAAGTCTATGAGAGGGGGTGGAGTTAATGGAGCC  
 ACTGCTGGAACCTGGGCAGGAGCTCGGGGAGACAGCCCTCATCTTGCCGTCAGGACCCGAGACCAGACA  
 TCTCTCCATCTGGTTGATTTCTTGTACAAAACCTGTGGAACTGGATAAGCAAACGCTCTGTGGGAATA  
 CAGTTCTGCACTATTGCAGCATGTACGGCAAGCCGGAGTGTCTGAAGCTGCTGCTTAGGAGCAAGCCAC  
 CGTGGACATCGTTAACCCAGAATGGAGAACTGCCTTGGATATAGCAAAGAGACTCAAAGCTACCCAGTGT  
 GAAGATCTGCTTTCCAGGCTAAATCTGAAAAGTTCAACCCTCATGTCCCGTAGAGTATGAGTGGAAATC  
 TTCGACAGGACGAGATGGATGAGAGCGATGACGATCTGGATGACAAGCCAAGCCCGATCAAAAAGGAACG  
 CTCGCCAGACCAGAGCTTCTGCCACTCTCCAGCATCTCGCCACAGGACAAGCTGGCACTGCCAGGG  
 TTCAGCACTCCACGGGACAAGCAGCGGCTCTCTACGGAGCCTTACCAACCAGATCTTCGCTCTACGA  
 GCACAGATTTGCCACATCACCCACCAGTGGGCTCCCTTTGCCACCTCGAACGCCGGGAAAGGTA  
 TGATGTGGGCCATTATCTTCAAGTAAGACGGCCAACAAGTTGAGGGGCTGTCTCAGCAAGCAAGCACC  
 AGTTCTGTAAGACTGCCCTTGCCCGAGAGTGTCTTCTAACTACCTCAGAAAGTGGCACTAAGGAAGA  
 CGGAGACCAGCCATCATCTCTCCCTCGACAGAACAACATCCACCTGAGACTTTTCAGAAATCATCACA  
 GTTGACAGAGTTACCCAAAAGCCACCCTTGGAGAGTGCCTCCGAAAGCCTGTGGAAGTGGCCCCAAG  
 CCCAAGTTGGAGAGTGCACCTAAGCCTGGAGAGTACCCCTAAGCCCAATTAGGTGACCTGCCCC  
 CCAAGCCACAGCTCTCAGACTTACCTCCAAGCCACAGATGAAGGACCTGCCCTAAGCCCGAGCTGGG  
 GGATCTGCTGGCAAAGTCCCAGGCTGGCGATGTCTCAGCCAAGGTGCAGCCACCTCAGAGGTCACACAG  
 AGGTACACACCCGGGATCTGTCTCAAATGTACAGTCCAGAGATGCCATCCAGAAGCAAGCATCTGAAG  
 ACTCCAACGACCTCACACCCAGCTGCCAGAGACCCGTACCACTGCCGAGAAAAATCAATACGGGGAA  
 AAATAAAGTGAGGCGGGTGAAGACCATTATGACTGCCAGCAGATAATGACGACGAACACATTTATT  
 GAGGGGAAGTGATCATTGTACCCGGGAAGAGGACCAGGAGTGGTGGATCGGGCATATCGAAGGACAGC  
 CTGAAAGGAAGGGTGTCTTTCCAGTGTCTTTGTCCACATCCTGTCTGACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001276467
- Insert Size:** 3273 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\\_001276467.1](#), [NP\\_001263396.1](#)

RefSeq Size: 6110 bp

RefSeq ORF: 3273 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 (5) lacks an in-frame exon in the coding region, compared to variant 1. The encoded isoform (e) is shorter than isoform a.