

## Product datasheet for **MC229377**

### Asap1 (NM\_001276463) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Asap1 (NM\_001276463) 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:** >MC229377 representing NM\_001276463  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGGACCAGATCTCCGTGTCCGAGTTCATCGCCGAGACCACCGAGGACTACAACCTGCCACCACGT  
 CCAGCTTACCACGCGGCTGCACAACCTGCAGGAACACCGTCACGCTGCTGGAGGAGGCTCTAGACCAAGA  
 TAGAACAGCCCTACAGAAAGTGAAGAACTGTAAAAGCAATATATAATTCGGTCAAGATCATGTACAA  
 AATGAAGAAAACCTATGCACAAGTTCTGGATAAGTTTGGAAAGTAAATTTTTAAGCAGAGACAACCCCTGACC  
 TTGGCACCCTTTTGTCAAGTTTCTACACTCACAAAGGAACTGTCCACGCTGCTGAAAAATCTGTCCA  
 GGGTCTGAGCCACAATGTGATCTTACCTTGGATTCTTGTAAAAGGAGACTTGAAGGGGGTCAAAGGA  
 GATCTCAAGAAGCCATTTGACAAAGCCTGGAAAGATTATGAGACGAAGTTTACAAAAATTGAGAAGGAGA  
 AAAGAGAGCACGCAAAACAGCACGGGATGATCCGAACAGAGATAACAGGCGCTGAGATTGCAGAAGAAAT  
 GGAAAAGGAACGGCGGCTTTTTAGCTCCAGATGTGTGAATATCTCATTAAAGTAAATGAAATCAAGACC  
 AAAAAGGGTGTGGACCTGCTGCAGAACCTTATAAAGTATTACCATGCACAGTCAATTTCTTTTCAGGATG  
 GCTTGAAAACGGCTGATAAACTGAAACAGTACATAGAAAAGCTGGCTGCTGACTTATATAATATAAAGCA  
 AACCCAAGATGAAGAAAAAACAGCTAACTGCACTCCGAGATCTAATAAAATCCTCTCTGCAACTTGAT  
 CCGAAAAGAAGACTCTCAGAGCCGCAAGGTGGGTACAGCATGCATCAGCTCCAGGCAACAAGGAGTACG  
 GCAGTGAAAAGAAGGGCTTCTGCTGAAGAAGAGTGATGGGATCCGAAAGTGTGGCAGAGACGGAAGTG  
 TGCGGTCAAGAACGGGATCCTGACCATCTCCACGCAACTTCCAACAGGCAGCCTGCTAAGTTAAACCTC  
 CTCACCTGCCAAGTGAACCGAATGCTGAGGACAAGAAGTCTTTTGACCTGATATCACATAATCGAACAT  
 ATCACTTCAAGCAGAAGATGAGCAGGATTATAGCGTGGATATCAGTACTGACGAATAGCAAAGAAGA  
 GGCCCTAACCATGGCCTCCGTGGTGTGAGCAGAGCACAGGGGAGAATAGCCTGGAGGACCTTACCAAAGCC  
 ATCATCGAGGATGTACAGCGGCTCCCTGGGAATGACATCTGCTGTGACTGCGGCTCATCAGAACCCACGT  
 GGCTTTCAACCAACTTGGGTATTTTACCTGTATAGAATGTTCCGGAATCCATAGGGAAATGGGGGTTCA  
 TATTTCTCGCATTAGTCTTTGAACTAGACAAATTAGGAACTTCCGAACTTGTGCTGGCCAAGAATGTA  
 GAAAACAATAGTTTTAATGATATTATGGAAGCAAAATTTACCCAGCCCTTACCAAAGCCACCCCTTCAA



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GTGATATGACCGTGCGTAAAGAGTACATCACTGCAAAGTATGTCGACCACCGCTTCTCCAGGAAGACCTG
TGCCCTTCTCTCAGCAAAGCTGAACGAATTGCTTGAGGCCATCAAGTCCAGGGACTTACTTGCAATTAATC
CAAGTCTATGCAGAGGGGTGGAGTTAATGGAGCCACTGCTGAAACCTGGGCAGGAGCTCGGGGAGACAG
CCCTTCATCTTGCCGTGAGGACCGCAGACCAGACATCTCTCCATCTGGTTGATTTCTTGTACAAAACCTG
TGGAAACCTGGATAAGCAAACGTCTGTGGGGAATACAGTTCTGCACTATTGCAGCATGTACGGCAAGCCG
GAGTGTCTGAAGCTGTGCTTAGGAGCAAGCCCACCGTGGACATCGTTAACCCAGAATGGAGAAACTGCCT
TGGATATAGCAAAGAGACTCAAAGCTACCCAGTGTGAAGATCTGCTTTCCAGGCTAAATCTGGAAAGTT
CAACCCTCATGTCCACGTAGAGTATGAGTGGAATCTTCGACAGGACGAGATGGATGAGAGCGATGACGAT
CTGGATGACAAGCCAAGCCCGATCAAAAAGGAACGCTCGCCCAGACCACAGAGCTTCTGCCACTCTCCCA
GCATCTCGCCACAGGACAAGCTGGCACTGCCAGGGTTCAGCACTCCACGGGACAAGCAGCGGCTCTCCTA
CGGAGCCTTACCAACCAGATCTTCGCCTCTACGAGCACAGATTTGCCACATCACCCACCAGTGAGGCT
CCCCCTTGGCACCTCGGAACGCCGGGAAAGGTCCAACCTGGCCCACCTTCAACACTCCCTCTAGGCCACC
AGACCTCTAGTGGCAGCTCCACCCTATCCAAGAAGAGGCCCTCTCCCCACCACCAGGACACAAGAGAAC
CCTGTCTGACCTCCAGCCCACTACCTCACGGGCCCCAAACAAAGGCCAATTCTTGGGGTAATGAT
GTGGGCCATTATCTTCAAGTAAGACGGCCAACAAGTTTGAGGGGCTGTCTCAGCAAGCAAGCACCAGTT
CTGCTAAGACTGCCCTTGCCCGAGAGTCTTCTAAACTACCTCAGAAAGTGGCACTAAGGAAGACGGA
GACCAGCCATCATCTCTCCCTCGACAGAACCAACATCCCACCTGAGACTTTTCAGAAATCATCACAGTTG
ACAGAGTTACCCAAAAGCCACCCTTGGAGAGCTGCCCCGAAGCCTGTGGAAC TGCCCCCAAGCCCC
AAGTTGGAGAGCTGCCACCTAAGCCTGGAGAGCTACCCCTAAGCCCAATTAGGTGACCTGCCCCCAA
GCCACAGCTCTCAGACTTACCTCCCAAGCCACAGATGAAGGACCTGCCCCCTAAGCCGACGTGGGGGAT
CTGCTGGCAAAGTCCCAGGCTGGCGATGTCTCAGCCAAGTGCAGCCACCCTCAGAGGTCACACAGAGGT
CACACACCGGGGATCTGTCTCAAATGTACAGTCCAGAGATGCCATCCAGAAGCAAGCATCTGAAGACTC
CAACGACCTCACACCCACGCTGCCAGAGACCCGTACCACTGCCGAGAAAAATCAATACGGGGAAAAAT
AAAGTGAGGCGGGTGAAGACCATTTATGACTGCCAGGCAGATAATGACGACGAACCTCACATTTATTGAGG
GGGAAGTGATCATTGTCAACCGGGGAAGAGGACCAGGAGTGGTGGATCGGGCATATCGAAGGACAGCCTGA
AAGGAAGGTGTCTTCCAGTGTCTTTGTCCACATCCTGTCTGACTAG

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001276463
- Insert Size:** 3339 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\\_001276463.1](#), [NP\\_001263392.1](#)

**RefSeq Size:** 6145 bp

**RefSeq ORF:** 3339 bp

**Locus ID:** 13196

**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 (4) differs in the 5' UTR, uses a downstream start codon, and has multiple differences in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (d) is shorter than isoform a.