

Product datasheet for **MC229354**

Asap1 (NM_001276461) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Asap1 (NM_001276461) 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: >MC229354 representing NM_001276461
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGATCTTCAGCCTCCCGGCTCTCCAGTTTTCTCCAGAGATTCACTATGGAATCGGATGCCGGACC
AGATCTCCGTGTCGAGTTCATCGCCGAGACCACCGAGGACTACAACCGCCACCACGTCAGCTTCAC
CACGCGGCTGCACAACTGCAGGAACACCGTCACGCTGCTGGAGGAGGCTCTAGACCAAGATAGAACGCC
CTACAGAAAGTGAAGAAATCTGTAAAAGCAATATAATAATTCGGTCAAGATCATGTACAAAATGAAGAAA
ACTATGCAACAAGTCTGGATAAGTTTGGAAAGTAATTTTTAAGCAGAGACAACCCTGACCTTGGCACCGC
TTTTGTCAAGTTTTCTACTCACAAGGAAGTGTCCACGCTGCTGAAAAATCTGCTCCAGGGTCTGAGC
CACAATGTGATCTTCACCTTGGATTCTTGTAAAAGGAGACTTGAAGGGGGTCAAAGGAGATCTCAAGA
AGCCATTTGACAAAGCCTGGAAGATTATGAGACGAAGTTTACAAAAATTGAGAAGGAGAAAAGAGAGCA
CGCAAAACAGCACGGGATGATCCGAACAGAGATAACAGGCGCTGAGATTGCAGAAGAAATGGAAGGAA
CGGCGGCTTTTTAGCTCCAGATGTGTGAATATCTCATTAAAGTAAATGAAATCAAGACCAAAAAGGGTG
TGGACCTGCTGCAGAACCTTATAAAGTATTACCATGCACAGTCAATTTCTTTCCAGGATGGCTTGA
GGCTGATAAACTGAAACAGTACATAGAAAAGCTGGCTGCTGACTTATATAATATAAAGCAAAACCCAAAGAT
GAAGAAAAAAGCAGCTAACTGCACTCCGAGATCTAATAAAATCCTCTCTGCAACTTGATCCGAAAAGAG
TAGGTGGTTTATATGTTGCCAGCAGGGCTAACAGTGACTCTCAGAGCCGGCAAGGTGGGTACAGCATGCA
TCAGCTCCAGGGCAACAAGGAGTACGGCAGTGAAGAAGGGCTTCTGCTGAAGAAGAGTGATGGGATC
CGGAAAGTGTGGCAGAGACGGAAGTGTGCGGTCAAGAACGGGATCCTGACCATCTCCACGCAACTTCCA
ACAGGCAGCCTGCTAAGTTAAACCTCCTCACCTGCCAAGTGAACCGAATGCTGAGGACAAGAAGTCTTT
TGACCTGATATCACATAATCGAACATATCACTTTCAAGCAGAAGATGAGCAGGATTATATAGCGTGGATA
TCAGTACTGACGAATAGCAAAGAAGAGGCCCTAACCATGGCCTTCCGTGGTGAGCAGAGCACAGGGGAGA
ATAGCCTGGAGGACCTTACCAAAGCCATCATCGAGGATGTACAGCGGCTCCCTGGGAATGACATCTGCTG
TGACTGCGGCTCATCAGAACCCACGTGGCTTTCAACCACTTGGGTATTTTGACCTGTATAGAATGTTCC
GGAATCCATAGGGAAATGGGGTTCATATTTCTCGCATTCAGTCTTTGGAAGTACAAATTAGGAACT



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CCGAACCTTGCTGGCCAAGAATGTAGGAAACAATAGTTTTAATGATATTATGGAAGCAAATTTACCCAG
CCCTTCACCAAAGCCACCCCTTCAAGTGATATGACCGTGCGTAAAGAGTACACTGCAAAGTATGTC
GACCACCGCTTCTCCAGGAAGACCTGTGCCTCTTCTCAGCAAAGCTGAACGAATTGCTTGAGGCCATCA
AGTCCAGGGACTTACTTGCAATTAATCCAAGTCTATGCAGAGGGGTGGAGTTAATGGAGCCACTGCTGGA
ACCTGGCAGGAGCTCGGGGAGACAGCCCTTCACTTGCCGTGAGACCCGAGACCAGACATCTCTCCAT
CTGGTTGATTTCCCTTGTACAAAACCTGTGGAACTGGATAAGCAAACGTCTGTGGGAATACAGTTCTGC
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CGTTAACCAGAATGGAGAACTGCCTTGGATATAGCAAAGAGACTCAAAGCTACCCAGTGTGAAGATCTG
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ACCACAGAGCTTCTGCCACTCTCCAGCATCTCGCCACAGGACAAGCTGGCACTGCCAGGGTTCAGCACT
CCACGGGACAAGCAGCGCTCTCTACGGAGCCTTACCAACCAGATCTTCGCCTCTACGAGCACAGATT
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GCCATCATCTCTCCCTCGACAGAACCAACATCCCACCTGAGACTTTTCAGAAATCATCACAGTTGACAGA
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GGAGAGCTGCCACCTAAGCCTGGAGAGCTACCCCTAAGCCCAATTAGGTGACCTGCCCCCAAGCCAC
AGCTCTCAGACTTACCTCCCAAGCCACAGATGAAGGACCTGCCCCCTAAGCCGAGCTGGGGGATCTGCT
GGCAAAGTCCCAGGCTGGCGATGTCTCAGCCAAGTGCAGCCACCTCAGAGGTACACAGAGGTCACAC
ACCGGGGATCTGTCTCAAATGTACAGTCCAGAGATGCCATCCAGAAGCAAGCATCTGAAGACTCCAACG
ACCTCACACCCAGCTGCCAGAGACACCCGTACCACTGCCGAGAAAAATCAATACGGGGAAAAATAAGT
GAGGCGGTGAAGACCATTTATGACTGCCAGGCAGATAATGACGACGAACCTCACATTTATTGAGGGGAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001276461
- Insert Size:** 3264 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_001276461.1](#), [NP_001263390.1](#)

RefSeq Size: 6101 bp

RefSeq ORF: 3264 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 (2) lacks two in-frame exons in the coding region, compared to variant 1. The encoded isoform (b) is shorter than isoform a.