

## Product datasheet for **RR201663**

### Asap1 (NM\_001044245) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Asap1 (NM\_001044245) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Asap1  
**Synonyms:** Ddef1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR201663 representing NM\_001044245  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGATCTTCAGCCTCCCGGCTCTCCAGTTTTCTCAAGAGATTCACTATGGAATCGGATGCCGGACC  
AGATCTCCGTGTCGAGTTCATCGCCGAGACCACCGAGGACTACAACCGCCACCAGTCCAGCTTAC  
CACGCGGCTGCACAACCTGCAGGAACACCGTCACGCTGCTGGAGGAGGCTCTAGACCAAGATAGAAGCC  
CTCCAGAAAGTGAAGAAATCTGTGAAAGCAATATAAATTCTGGTCAAGATCATGTACAAAATGAGGAAA  
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CGGCGGCTTTTTAGCTCCAGATGTGTGAATATCTCATTAAAGTTAATGAAATCAAGACCAAAAAGGGTG  
TGGACCTGCTGCAGAACCTCATAAAGTATTATCATGCACAATGCAATTTCTTTCCAGGATGGCTTGA  
AGCTGATAAACTGAAACAGTACATTGAAAAGCTGGTCTGCTGACTTATATAATATAAAGCAAACCCAAAGT  
GAAGAAAAGAAAAGTAACTGCACTCCGAGACCTAATAAAAATCCTCTCTGCAGCTTGATCCGAAAAGAG  
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TCAGCTCCAGGGCAACAAGGAGTATGGCAGTGAAGAAGGGCTTTCTGCTGAAGAAGAGTGACGGGATC  
CGGAAAGTGTGGCAAAGAAGGAAGTGTGCTGTCAAGAATGGGATACTGACCATTTACATGCAACTTCCA  
ACAGGCAGCCTGCTAAGTTAAACCTCCTCACCTGCCAGGTGAAACCGAATGCTGAGGACAAGAAGTCTTT  
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CTGAACTCTTGCTGGCCAAGAATGTAGGAAACAATAGTTTTAATGATATTATGGAAGCAAATTTACCCAG  
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GACCACCGGTTCTCCAGGAAGACCTGTGCCTCTTCTCAGCAAAGCTGAATGAATTGCTTGAGGCCATCA  
AGTCCAGGGACTTACTTGCACTAATCCAAGTCTATGCAGAGGGAGTGGAGTTAATGGAGCCACTGCTAGA  
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CCACGGGACAAACAGCGGCTCTCTACGGAGCCTTACCAACCAGATCTTCGTCTCTACGAGCACAGATT  
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ATCCAGAAGCAAGCATCTGAGGACTCCAACGACCTCACACCCACGCTGCCAGAGACACCCGTACCACTGC  
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AC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR201663 representing NM\_001044245  
 Red=Cloning site Green=Tags(s)

MRSSASRLSSFSSRDSLWNRMPDQISVSEFIAETTEDYNSPTTSSFTTRLHNCRNTVTLLEEALDQDRTA  
 LQKVKKSVKAIYNSGQDHVQNEENYAQVLDKFGSNFLSRDNPDLGTAfvkfstlTKELSTLLKNLLQGLS  
 HNVIFTLDSLKGDLLKGVKGDLLKPPFDKAWKDYEMKFTKIEEKREHAKQHGMIRTEITGAEIAEMEKE  
 RRLFQLQMCEYL IKVNEIKTKKGVDDLQNLIKYYHAQC�FFQDGLKTADKLKQYIEKLAADLYNIKQTQD  
 EEKQLTALRDLIKSSLQLDPKEVGGLYVPSRANSDSQSRQGGYSMHQLQGNKEYSEKKGFLKKSDGI  
 RKVWQRRKCAVKNGLITISHATSNRQPAKLNLLTCQVKPNAEDKKSFDLI SHNRTYHFQAEDEQDYVTWI  
 SVLTNSKEEALTMAFRGEQSTGENSLEDLTKAIIEDVQRLPGNDICDCGSSEPTWLSTNLGILTCIECS  
 GIHREMGVHISRIQSLELDKLTSELLAKNVGNNSFNDIMEANLPSPPKPTPSSDMTVRKEYITAKYV  
 DHRFSRKTCASSAKLNELLEAIKSRDLLALIQVYAEGVELMEPLLEPGQELGETALHLAVRTADQTS LH  
 LVDFLVQNGNLDKQTSVGNTVLHYCSMYGKPECLKLLRSKPTVDIVNQGETALDI AKRLKATQCEDL  
 LSQAKSGKFNPHVHVEYEWNL RQDEME SDDDLDDKPSPIKERSPRPQSFCHSSSISPQDKLALPGFST  
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 PPPPGHKRTLSDPPSPLPHGPPNKGAIPWGNVGPSSSSKTANKFEGLSQQASTSSAKTALGPRVLPKLP  
 QKVALRKTTETSHHLSLDRANIPPETFQKSSQLSEL P QKPP LGDLPKPMELAPKPIGELPPKPGELPPK  
 PQLGDLPPKQLSDLPPKQMKDLPPKQLGDLLAKSQASDL SAKVQPPSEVTQRSHTGDLSPNVQSRDA  
 IQKQASEDSNDL TPTLPETPVPLPRKINTGKNVRRVKT IYDCQADNDELTFIEGEV IIVTGEEDQEW  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

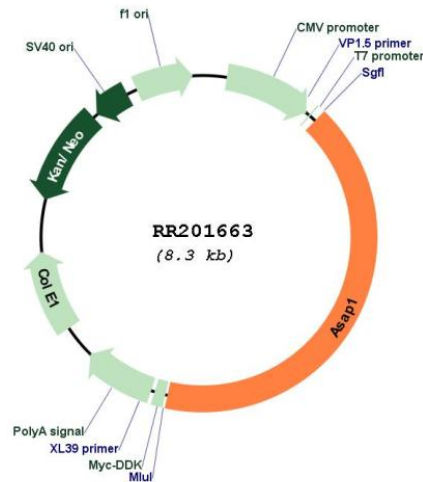
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001044245

ORF Size: 3432 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:

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\\_001044245.1](#), [NP\\_001037710.1](#)

RefSeq Size: 3435 bp

RefSeq ORF: 3435 bp

Locus ID: 314961

UniProt ID: [Q1AAU6](#)

Cytogenetics: 7q33

**MW:** 127.1 kDa

**Gene Summary:** 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. 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).[UniProtKB/Swiss-Prot Function]