

Product datasheet for **MG216157**

Asap2 (NM_001004364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asap2 (NM_001004364) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Asap2
Synonyms:	6530401G17Rik; Ddef2; Gm592; Gm1523; PAG3; PAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG216157 representing NM_001004364
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGACCAGATCTCCGTGTCCGAATTCGTGGCCGAGACCCATGAGGACTACAAGCGCCACCGCCCT
 CTAGCTTCACCACGCGCACGGCCAGTGC CGGAACACCGTGGCGGCCATCGAGGAGGCTTTGGACGTGGA
 CCGGATGGTTCTCTACAAAATGAAGAAATCTGTGAAGGCAATCAATATCTCTGGGCTGGCACACGTGGAG
 AACGAGGAACAGTACACCCAGGCTCTGGAGAAGTTCGGTGGCAACTGTGTGTGCAGAGATGATCCAGACT
 TAGGAAGCGCTTTCTGAAGTTCCTGTGTTCCACCAAGGAGTTGACGGCACTCTTCAAAAACCTGATTCA
 GAACATGAACAACATCATCTCGTCCCTTTGGACAGTTTGTGAAAGGAGATCTGAAAGGAGTAAAAGGG
 GATCTGAAAAGCCCTTTGATAAAGCTTGAAGGACTATGAAACAAAAAATACCAAAAATAGAAAAGGAGA
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 GGAGAAGGAAAGACGGTCTCCAGCTGCAGATGTGTGAGTACCTGCTGAAGTCAATGAAATCAAGGTG
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 GGCCAGGATGAGGAACGGCGACAGCTGATACAACCTTCGAGATATTTTGAAGTCAGCATTGCAGGTGGAA
 CAGAAAGAGGACTCACAACCTCGCCAAAGTACAGCCTACAGCTTACATCAACCTCAGGAAAACAAGGAGC
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 GTGTTCCGTTAAAAATGGCTTCTCACCATCTCCACGGCACTGCCAACCGGCCACCTGCCAAGCTCAAC
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 CTACCACCTTCCAAGCGGAAGACGAACAAGAATGTCAGATATGGATGTCTGTACTGCAGAACAGCAAGGA
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 CGACGTGGCTCTCTACCAACCTGGGCATCCTGACTTGCATCGAGTGTCTGGGATCCACCGGAGCTGGG
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 GGTCCAGAACAGTGGAACTGGATAAACAGACAGGCAAGGGCAGCACAGCCCTGCACTACTGCTGCCTG
 ACAGACAATGCTGAGTGCCTCAAGCTCCTCCTGCGGGGAAAAGCCTCCATTGAGATAGCCAATGAGTCAG
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 GAGGACCTGAAGCTTCGGGCTCTGTCCAACGCCATGGCCCTGCAGCCCCCAGCACCCATGCCTAGGAA
 GTCACAGGCGACCAAGTCAAAGCCCAAGCGAGTAAAAGCACTCTACAACCTGCGTGGCTGACAACCCAGC
 GAGCTGACTTTCTGAGGGCGACGTGATCATTGTGGATGGGGAAGAGGATCAGGAGTGGTGGATCGGCC
 ACATCGATGGAGAGCCAGCCGCAAGGAGCGTTCCCGTATCGTTTGTGCACTTTATTGCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216157 representing NM_001004364
 Red=Cloning site Green=Tags(s)

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLKMKKSVKAINISGLAHVE
 NEEQYTQALEKFGGNCVCRDDPDLGSAFLKFSVFTKELTALFKNLIQNMNNIISFPLDSSLKGDLLKGVK
 DLKKPFDAWKDYETKITKIEKEKKEHAKLHGMIRTEISGAIEAEEMEKERRFFQLQMCYLLKVNKIKV
 KKGVDLLQNLIKYFHAQC�FFQDGLKAVESLKPSIETLSTDLHTIKQAQDEERRQLIQLRDILKSALQVE
 QKEDSQLRQSTAYSLHQPOGNKEHGTERNGNLYKKSDBGIRKVVQKRCVKNGFLTISHGTANRPPAKLN
 LLTCQVKTNPEEKCFDLISHDRTYHFQAEDQECCQIWM SVLQNSKEEALNNAFKGDDNTGENNIVQELT
 KEIISEVQRMTGNDVCCDCGAPDPTWLSTNLGILTCIECSGIHRELGVHYSRMQSLTLDVLTSELLAK
 NIGNAGFNEIMECLPSEDPVKPNPGSDMIARKDYITAKYMERRYARKKHADTAAKLHSLCEAVKTRDIF
 GLLQAYADGVDLTEKIPLANGHEPDETAHLAVRSVDRTSLHIVDFLVQNSGNLDKQTKGKSTALHYCCL
 TDNAECLKLLLRGASIEIANESGETPLDIARKLKHEHCEELLTQALSGRFNSHVHVEYEWRLLEDLDE
 SDDDVDEKLQSPNRRDRPVSYQLGSSQFQSNVSLARDTANLTKDKQRFQSGPILQNETYGAILSGS
 PPSSQSIPPSTTSAPPLPPRNVGKDPLTTTPPPVAKTSGTLEAMNQPSKSSQPGTSQSKPPPLPPQPS
 RLPQKKPASGTDKPTPLTNKGQPRGPEASGPLSNAMALQPPAMPKRSQATKSKPKRVKALYNVADNP
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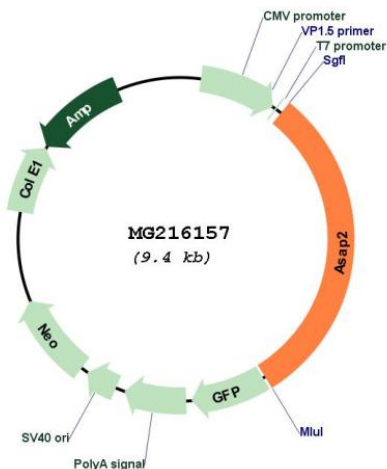
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001004364

ORF Size: 2865 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001004364.2](#), [NP_001004364.2](#)

RefSeq Size: 5557 bp

RefSeq ORF: 2868 bp

Locus ID: 211914

UniProt ID: [Q7SIG6](#)

Cytogenetics: 12 A1.2-A1.3

Gene Summary: Activates the small GTPases ARF1, ARF5 and ARF6. Regulates the formation of post-Golgi vesicles and modulates constitutive secretion. Modulates phagocytosis mediated by Fc gamma receptor and ARF6. Modulates PXN recruitment to focal contacts and cell migration (By similarity).[UniProtKB/Swiss-Prot Function]