

## Product datasheet for **MR216157**

### Asap2 (NM\_001004364) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asap2 (NM_001004364) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asap2
Synonyms:	6530401G17Rik; Ddef2; Gm592; Gm1523; PAG3; PAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR216157 representing NM\_001004364  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGGACCAGATCTCCGTGTCCGAATTCGTGGCCGAGACCCATGAGGACTACAAGCGCCACCGCCCT  
 CTAGCTTCACCACGCGCACGGCCAGTGC CGGAACACCGTGGCGCCATCGAGGAGGCTTTGGACGTGGA  
 CCGGATGGTTCTTACAAAATGAAGAAATCTGTGAAGGCAATCAATATCTCTGGGCTGGCACACGTGGAG  
 AACGAGGAACAGTACACCCAGGCTCTGGAGAAGTTCGGTGGCAACTGTGTGTGCAGAGATGATCCAGACT  
 TAGGAAGCGCTTTCTGAAGTTCCTGTGTTCCACCAAGGAGTTGACGGCACTCTTCAAAAACCTGATTCA  
 GAACATGAACAACATCATCTCGTTCCTTTGGACAGTTTGTGAAAGGAGATCTGAAAGGAGTAAAAGGG  
 GATCTGAAAAGCCCTTTGATAAAGCTTGAAGGACTATGAAACAAAAAATACCAAAAATAGAAAAGGAGA  
 AAAAGGAGCATGCCAAGCTCCACGGGATGATTCGTAAGTAAAGCGGGCTGAGATTGCAGAGGAGAT  
 GGAGAAGGAAAGACGGTTCCTCCAGCTGCAGATGTGTGAGTACCTGCTGAAGTCAATGAAATCAAGGTG  
 AAAAAGGAGTGGATTTGCTTCAGAATCTGATCAAGTACTTTCACGCCCACTGCAATTTTTCCAGGATG  
 GATTGAAAGCAGTAGAAAGCCTCAAGCCTTCCATCGAGACGCTCTCCACGGACCTCCACACCATCAAACA  
 GGCCAGGATGAGGAACGGCGACAGCTGATACAACCTTCGAGATATTTGAAAGTCAGCATTGCAGGTGGAA  
 CAGAAAGAGGACTCACAACCTCGCCAAAGTACAGCCTACAGCTTACATCAACCTCAGGAAAACAAGGAGC  
 ATGGAACAGAGAGGAACGGGAACCTCTACAAGAAGAGCGATGGGATCCGGAAAGTGTGGCAGAAGAGGAA  
 GTGTTCCGTTAAAAATGGCTTCTCACCATCTCCACGGCACTGCCAACCGGCCACCTGCCAAGCTCAAC  
 CTGTAACCTGCCAGGTGAAGACCAATCCTGAGGAGAAGAAGTGTTCGACCTCATATCATATGACAGGA  
 CTACCACCTTCCAAGCGGAAGACGAACAAGAATGTCAGATATGGATGTCTGTACTGCAGAACAGCAAGGA  
 AGAAGCTCTGAACAACCGCTTTAAGGGTGATGACAACACTGGAGAAAATACATCGTCCAAGAGCTGACC  
 AAGGAGATCATCTCGGAGGTGCAGAGGATGACGGCAATGACGTGTGCTGCGACTGTGGGCACCCAGATC  
 CGACGTGGCTCTTACCAACCTGGGCATCCTGACTTGCATCGAGTGTCTGGGATCCACCGGGAGCTGGG  
 GGTTCACTACTCCAGGATGCAGTCCCTGACATTAGATGTATTGGGAACGTCTGAGCTTCTGCTTGCCAA  
 AATATCGGGAATGCAGGCTTTAATGAAATTATGGAGTGTGCTACCGTCTGAGGACCCAGTCAAGCCCA  
 ACCCAGGCACTGACATGATTGCAAGGAAGGACTACATCACAGCCAAGTACATGGAGAGGAGATATGCACG  
 GAAAAAGCATGCCGACACCGCGGAAGCTCCACAGCCTTTCGAGGCGCTCAAGACCAGAGACATTTTT  
 GGGTACTCCAAGCTTATGCTGATGGTGTGGACCTGACAGAGAAAATCCCACTGGCCAATGGGCATGAGC  
 CAGATGAGACAGCCCTCATCTTGACGTGAGATCTGTGGACCGGACTTCCCTTACATTTGAGACTTCTT  
 GGTCCAGAACAGTGGGAACCTGGATAAACAGACAGGCAAGGGCAGCACAGCCCTGCACTACTGCTGCCTG  
 ACAGACAATGCTGAGTGCCTCAAGCTCCTCCTGCGGGGAAAAGCCTCCATTGAGATAGCCAAATGAGTCAG  
 GAGAGACCCCGTTGGACATTGCTAAGCGGCTCAAGCACGAACACTGTGAGGAACTGCTCACTCAGGCCTT  
 GTCGGGGCGGTTAACTCCCATGTTACGTCGAGTATGAATGGCGGCTGCTGCACGAGGACCTGGATGAG  
 AGCGACGACGATGTGGACGAGAAGCTACAGCCTAGTCCCAACCGACGGGAGGACCGGCCTGTTAGCTTCT  
 ACCAGCTGGGGTCCAGCCAGTTTCAGTCCAATGCTGTGCTTTGGCCAGAGATACTGCAAACCTCACCAA  
 GGACAAGCAGAGGGGCTTTGGGCCAGCATCTTGCAAGATGAGACCTATGGAGCCATCTGAGTGGCAGC  
 CGGCCCTCTCCAGTCAATACCCCCAGCACCACCGCACCACCCCGCTCCACCTCGGAATGTTGGCA  
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 CGCCTGCCTCAGAAGAAACCAGTTCGGGACTGACAAGCAACCCCGCTGACCAACAAAGGACAGCCGA  
 GAGGACCTGAAGCTTCGGGCTCTGTCCAACGCCATGGCCCTGCAGCCCCCAGCACCCTAGCCTAGGAA  
 GTCACAGGCGACCAAGTCAAAGCCCAAGCGAGTAAAAGCACTCTACAACCTGCGTGGCTGACAACCCAGC  
 GAGCTGACTTTCTGAGGGCGACGTGATCATTGTGGATGGGGAAGAGGATCAGGAGTGGTGGATCGGCC  
 ACATCGATGGAGAGCCAGCCGCAAGGAGCGTTCCCGTATCGTTTGTGCACTTTATTGCTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR216157 representing NM\_001004364  
 Red=Cloning site Green=Tags(s)

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLKMKKSVKAINISGLAHVE  
 NEEQYTQALEKFGGNCVCRDDPDLGSAFLKFSVFTKELTALFKNLIQNMNNIISFPLDSLKGDLDKGVK  
 DLKPKPDKAWKDYETKITKIEKEKKEHAKLHGMIRTEISGAIEAEMEKEKERRFFQLQMCYLLKVN  
 IKVKKGVDLLQNLIKYFHAQC�FFQDGLKAVESLKPSETLSTDLHTIKQAQDEERRQLIQLRDILK  
 SALQVEQKEDSQLRQSTAYSLHQPOGNKEHGTERGNLYKKSDBGIRKVVQKRKCSVKNGFLLTIS  
 HGTA NRPPAKLNLLTCQVKTNPEEKCFDLISHDRTYHFQAEDQECQIWM SVLQNSKEEALNNAFK  
 GDDNTGENNIVQELTKEIISEVQRMTGNDVCCDCGAPDPTWLSTNLGILTCIECSGIHRELGVHYS  
 RMQSLTLDVLTGSELLAKNIGNAGFNEIMECLPSEDVVKPNPGSDMIARKDYITAKYMERRYARK  
 KHADTA AKLHSLCEAVKTRDIFGLLQAYADGVDLTEKIPLANGHEPDETAHLAVRSVDRTSLHIVDFL  
 VQNSGNLDKQTGKGSTALHYCCLTDNAECLKLLLRGKASIEIANESGETPLDI AKRLKHEHCE  
 ELLTQALSGRFNSHVHVEYEWRLLEDLDESDDVDVDEKLQSPNRREDRPVSFYQLGSSQFQ  
 SNAVSLARDTANLTKDKQRFGFSILQNETYGA ILSGSPSSQSIPPSTTSAPPLPPRNVGKDPL  
 TTT PPPPVAKTSGTLEAMNQPSKSSQPGTSQSKPPPLPPQPSRLPQKKPASGTDKPTPLTNK  
 GQPRGPEASGPLSNAMALQPPAMP RKSQATKSKPKRVKALYN CVADNPDELTFSEG DVIIIVD  
 GEEDQEW WIGHIDGEP SRKGAFVSVFVHFIA D

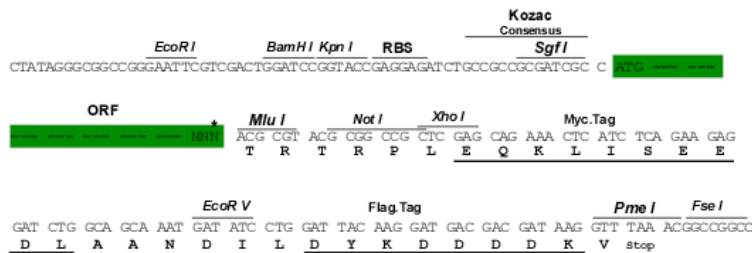
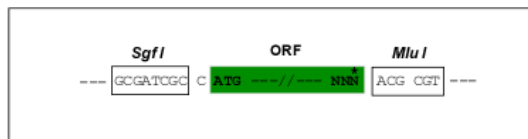
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1738\\_b05.zip](https://cdn.origene.com/chromatograms/ja1738_b05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



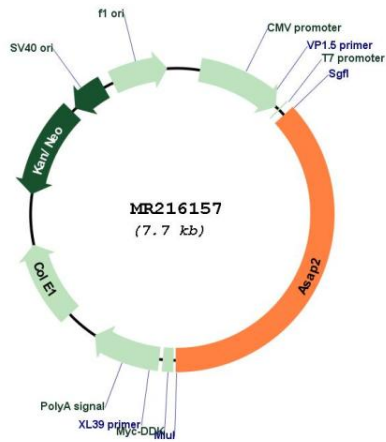
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001004364

**ORF Size:** 2865 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001004364.2</a> , <a href="#">NP_001004364.2</a>
<b>RefSeq Size:</b>	5557 bp
<b>RefSeq ORF:</b>	2868 bp
<b>Locus ID:</b>	211914
<b>UniProt ID:</b>	<a href="#">Q7SIG6</a>
<b>Cytogenetics:</b>	12 A1.2-A1.3
<b>MW:</b>	106.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR216157