

## Product datasheet for **MR211308**

### Asap2 (NM\_001098168) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asap2 (NM_001098168) 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:**

>MR211308 representing NM\_001098168  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGGACCAGATCTCCGTGTCCGAATTCGTGGCCGAGACCCATGAGGACTACAAGCGCCACCGCCCT  
 CTAGCTTCACCACGCGCACGGCCAGTGC CGGAACACCGTGGCGCCATCGAGGAGGCTTTGGACGTGGA  
 CCGGATGGTTCTCTACAAAATGAAGAAATCTGTGAAGGCAATCAATATCTCTGGGCTGGCACACGTGGAG  
 AACGAGGAACAGTACACCCAGGCTCTGGAGAAGTTCGGTGGCAACTGTGTGTGCAGAGATGATCCAGACT  
 TAGGAAGCGCTTTCTGAAGTTCCTGTGTTCCACCAAGGAGTTGACGGCACTCTTCAAAAACCTGATTCA  
 GAACATGAACAACATCATCTCGTCCCTTTGGACAGTTTGTGAAAGGAGATCTGAAAGGAGTAAAAGGG  
 GATCTGAAAAGCCCTTTGATAAAGCTTGAAGGACTATGAAACAAAAAATACCAAAAATAGAAAAGGAGA  
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 GGAGAAGGAAAGACGGTCTCCAGCTGCAGATGTGTGAGTACCTGCTGAAGTCAATGAAATCAAGGTG  
 AAAAAGGAGTGGATTTGCTTCAGAATCTGATCAAGTACTTTCACGCCCACTGCAATTTTTTCCAGGATG  
 GATTGAAAGCAGTAGAAAGCCTCAAGCCTTCCATCGAGACGCTCTCCACGGACCTCCACACCATCAAACA  
 GGCCCAAGGATGAGGAACGGCGACAGCTGATACAACCTCGAGATATTTTGAAGTCAGCATTGCAGGTGGAA  
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 GAAGAGGAAGTGTCCGTTAAAAATGGCTTCTCACCATCTCCACGGCACTGCCAACGGCCACCTGCC  
 AAGCTCAACCTGCTAACCTGCCAGGTGAAGACCAATCCTGAGGAGAAGAAGTGTTCGACCTCATATCAC  
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 CTGGATGAGAGCGACGACGATGTGGACGAGAAGCTACAGCCTAGTCCCAACCGACGGGAGGACCGGCCTG  
 TTAGCTTCTACCAGCTGGGGTCCAGCCAGTTTCAGTCCAATGCTGTGCTTTGGCCAGAGATACTGCAAA  
 CCTCACC AAGGACAAGCAGAGGGGCTTTGGGCCAGCATCTTGCAAGATGAGACCTATGGAGCCATCCTG  
 AGTGGCAGCCCGCCCTCCAGTCAATACCCCCAGCACCAAGCGCACCCCGCTCCACCTCGGA  
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 CCACCCAGCCGCTGCCTCAGAAGAAACAGCTTCCGGGACTGACAAGCCAACCCGCTGACCAACAAAAG  
 GACAGCCGAGAGGACCTGAAGCTTCGGGTCTCTGTCCAACGCCATGGCCCTGCAGCCCCAGCACCCAT  
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 AACCCAGACGAGCTGACTTCTCTGAGGGCGACGTGATCATTGTGGATGGGAAGAGGATCAGGAGTGGT  
 GGATCGGCCACATCGATGGAGAGCCAGCCGAAAGGAGGTTTCCCGTATCGTTTGTGCACTTTATTGC  
 TGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211308 representing NM\_001098168  
 Red=Cloning site Green=Tags(s)

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLKMKKSVKAINISGLAHVE  
 NEEQYTQALEKFGGNCVCRDDPDLGSAFLKFSVFTKELTALFKNLIQNMNIIISFPLDSLKGDLDKGVK  
 DLKKPFDKAWKDYETKITKIEKEKKEHAKLHGMIRTEISGAIEAEMEKEKERRFFQLQMCEYLLKVNEIKV  
 KKGVDLLQNLIKYFHAQC�NFQDGLKAVESLKPSIETLSTDLHTIKQAQDEERRQLIQLRDILKSALQVE  
 QKESRRDSQLRQSTAYSLSHQPNQKEHGTERNGNLKKSQSDGIRKVVQKRCVKNGLFTIISHGTANRPPA  
 KLNLLTCQVKTNPEEKCFDLISHDRTYHFQAEDEQEQIWMVSLQNSKEEALNNAFKGDDNTGENNIVQ  
 ELTKEIIEVQRMTGNDVCCDCGAPDPTWLSTNLGILTCIECSGIHRELGVHYSRMQSLTLDVLTGSELL  
 LAKNIGNAGFNEIMECLPSEDVVKPNPGSDMIARKDYITAKYMERRYARKKHADTAAKLHSLCEAVKTR  
 DIFGLLQAYADGVDL TEKIPLANGHEPDETAHLAVRSVDRTSLHIVDFLVQNSGNLKDQTGKGSTALHY  
 CCLTDNAECLKLLLRGKASIEIANESGETPLDIAKRLKHEHCEELLTQALSGRFNSHVHVEYEWRLLED  
 LDESDDVDKELQPSNRRREDRVSFYQLGSSQFQSNVSLARDTANLTKDKQRGFGPSILQNETYGAIL  
 SGSPSSQSIPPSTTSAPPLPPRNVGKDPLTTTPPPVAKTSGTLEAMNQPSKSSQPGTSQSKPPPLPPQ  
 PPSRLPQKKPASGTDKPTPLTNKGQPRGPEASGPLSNAMALQPPAMPKRSQATKSKPKRVKALYNQVAD  
 NPDELTFSEGDIIVDGEEDQEWIIGHIDGEPKRGAFVPSFVHFIAID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

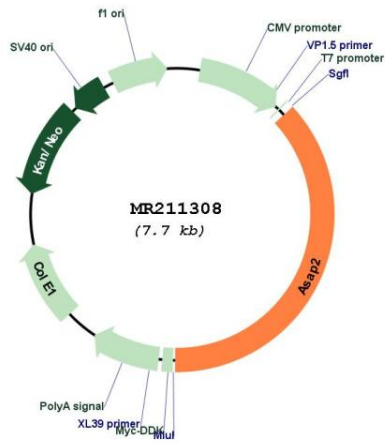


ACCN: NM\_001098168

ORF Size: 2874 bp

<b>OTI Disclaimer:</b>	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>
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001098168.1</a> , <a href="#">NP_001091637.1</a>
<b>RefSeq Size:</b>	5566 bp
<b>RefSeq ORF:</b>	2877 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>	107.3 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 MR211308