

Product datasheet for **MC224192**

Ambra1 (NM_172669) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ambra1 (NM_172669) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ambra1
Synonyms:	2310079H06Rik; A130023A14; AA474864; AV021921; D030051N19Rik; mKIAA1736
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224192 representing NM_172669 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGTTGTCAGAGAGAAGAATGCTGTACGAATCCTCTGGGGCCGAGAACGGGGCACTCGTGCCATGG
GTGCCAGCGCTTCTGCAGGAGCTGGTGGAGGATAAGACTCGATGGATGAAATGGGAGGGCAAGAGAGT
AGAAGTGCCTGATAGTCCACGCTCGACCTTCTTACTGGCCTTCAGCCAGACAGGACTCTTTGGCATCC
ACACATGTGAACCATAACATCTATATTACAGAGGTTAAGACTGGCAAGTGTGTTCACTCTCTGATCGGAC
ACCGCCGACTCCATGGTGTGCTACTTTTACCCACCATCTCAGGCCTTATTGCTTCTGGTTGCCTAGA
TGGGGAAGTTAGGATTTGGGATTTACATGGGGCAGTAAAGCTGGTTCACAGACAGCAACAATGCCATA
GCCTCCTTGCTTTCCACCCTACGGCTCAGCTTCTACTAATTGCCACTGCAAATGAGATCCATTTCTGGG
ATTGGAGTCGTCGGGAGCCCTTTGCTGTGGTGAACAGCCAGTGAAGTGGAGCGTGTCCGCTGGTGGAG
ATTTGATCCACTTGGACACTACTTACTTACAGCTATTGTTAACCTTCTAATCAGCAGGGTATGACGAA
CCAGAAATCCCTATAGATGGAACAGAGTTATCTCATTACCGTCAACGTGCCCTCTGCAATCACAGCCAG
TTCGCCGACACCTCTCCTCCACAATTTCTGCACATGCTGTCTCCCGTTCCTCTGGCATCCAGGTGGG
AGAGCAAAGCACAGTACAAGATTCTGCTACCCCTCACCCACCGCCTCCCCCTCAGCCCTCCACGGAG
CGTCCCAGGACTCCGCTTACATCAGACTCCGACAGCGGGTCAAGTACCCACCAAGTGTGAGTGTGCTGC
AGCACCTGGGATCCTGTGCCTTTGCAGCCGCTGTGCTGGCACTCGAGTTCCTTCCCTCTTGCCACACCA
GGACAGTGTCCCCCTGCTTCTGCCAGAGCTACTACCCCTTCTTTTCTTTTGTACAGACCGAGCCCTTC
CATCCCCGAGCAGGCTTCATCAACGCAGCAGGACCAGGGCCTCCTGAACCGGCGCTGCTGCTTACGTA
CAGTCCAGAGCAGCACTGCGGGCAACACGCTCCGCAACCTCAGTCTGGTCTTACCCGGCGCTCTTTGGG
GGGCCCTTTGCTAGCCACCTTCTAGGTATCACAGAGAACTAGCCCTGGGCTGACAGGTTCTGAGTGG
ACCCGGACAGTACTCACTCTGAATCTCGTTCTGAGGTAGAATCTATGCCCCACCGAGGACCAGTGCCT
CCTCAGTGAGTTTCTTCTGTACTGAGACAGCAGGAAGGTGGCTCTCAGGCATCTGTGATACTTACAG
CACAGAAGGGAGGGGTTTCCATCATCAGGTTGGCAACTGAGTCAGATGGAGGGAATGGTTCAGCCAA



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AACAACTCAGGCAGCATTGCGCCATGAGCTTCAATGTGACCTGAGACGCTTCTTTTTGGAGTATGACAGGC
 TGCAGGAGCTGGATCAGAGCCTGAGTGGGGAACTCCCCAGACCAACAGGCCAGGAAATGCTCAACAA
 TAATATTGAATCTGAGAGACCAGGTCTTCCCACCTGCCACCCACACAGCAGTGAGAACAACCTCAAC
 CTGTCTCGGGGCCACCTAATCGATGCCGTGCTTGCCATAATCTTCTAACCTTCAACAATGATACCCCTC
 GTTGGGAAAGAACCACACCTAACTACTCATCTGGTGAGGCTAGCTTCTCCTGGCAGCTCTCCACTACCT
 TGAGGGCATGCCACCAAGTGGCAACCAGCTACCACCTTTGAGCGGACTGAGGGCCAAATGCCTAGCTCC
 AGCAGGCCACTGGGAACGCATTTATACCCAGTCCAGCAGATCTGGAAGTGTATCACAGGAGGCCTTACA
 TCAAGATATGCCTGAAGAAAGCTCTGAGGAAGACTCCCTCAGGAGGAGGCTGCTGGAGTCTTCCCTCATT
 TCATTATCCCCTTATGATGGAGCAGGATCCAGAGACACCAATTTACCCAGACCCAGCGAGATTATCTC
 CTGCTGCATACTACGCCAGAGGATGATCCAGTATCTCTCAAGGAGAGACAGTATTCGCCAGCGCTCCAT
 GCGCTACCAACAGAATCGGCTTCGTTCTTCCACCTCCTCTTCTCCTCAGACAACCAGGGTCCATCAGTA
 GAGGGAACCGACTTGAATTTGAGGACTTTGAGGACAATGGTGACAGATCTAGGCACCGAGCTCCCCGAA
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 TTATGCTGGGATTTTTCATGAACGTGGACAGCCTGGCTTGCTACTCATTCTTCTGTTAACAGGGTCTG
 GCAGGGGCAGTAATTGGAGATGGACAGTCTGCTGTGGCCAGTAACATTGCCAATACTACCTACAGGCTCC
 AGTGGTGGGACTTCACTAAGTTTGACCTTCCAGAAATCAGTAATGCCTCTGTGAATGTCCTGGTACAGAA
 TTGCAAGATCTACAATGATGCCAGCTGTGACATTTCTGCAGATGGTCAGCTCCTGGCAGCCTTATCCCCG
 AGCAGCCAGAGGGGCTTTCCTGATGAAGGCATCCTGGCAGTGTATTCCCTGGCCCCCAAACTTGGGGG
 AAATGCTCTACACCAAGCGATTTGGTCCCAATGCCATTTCTGTAAGCCTGTCCCCGATGGCCGATACGT
 TATGGTGGGCTTGGCCTCAGGAAGGATCCTACTGCACCCCTCCACAGAGCACATGGTAGCCAGGTCTTC
 AGGCTGCAACAGGCCCATGGTGGTGAGACTTCCATGAGGAGAGTTTTCAATGTCTTTACCCATGCCTG
 CAGCAACGGAGACACGTCAGCATCAACTTGCCCGTTGGCTACCCGAGCCAGGGCTTGGTTTGGCCTA
 TGGCACCAACAAAGGAGACTTGGTGATCTGCCGACCAGAGGCCTTAAACTCTGGCATCGAGTACTACTGG
 GACCAGCTAAGTGAACAGTCTTCACTGTCCACTCAAGTAGCAGGAGCAGCGAGCGGCTGGAACCAAGCA
 GAGCCACGTGGCGGACAGACAGAGACATGGGTTTGTGAATGCAATTGGGCTGCAGCCTCGGAACCAAC
 CACCTCTGTGACATCTCAGGGCACCCAGACTCTGGCCCTCAGTTGCAGAACGCTGAAACACAGACTGAG
 AGGGAGGAAGAGGAACCAAGGGCAGCATCTTCAAGTCTGGTGAAGGCGAGGGCTCAGAATATGGTGGCA
 GTGGGGAAGATGCCCTCAGCAGGATCCAGAGGCTGATGGCCGAGGGTGGCATGACAGCTGTGGTACAACG
 GGAACAGAGCACCACCATGGCTCCATGGGTGGCTTTGGCAACAACATCATCGTTAGCCACCGCATTAC
 CGCAGCTCCCAGACAGGCACAGAGTCAGGGGCTGCTCGTACCTCCTACCCAGCCCTCCACCTCTCGAG
 GACTGCCATCAGAACCTGGGCAACTGGCAGAGCGAGCGCTAAGCCCCGGACAGCCTCCTGGGACCAGCC
 TAGTACCTCTGGGAGGGAACACCCAGCCAGCCCTGTCCTTCTCCTCCCTGTCCCCATTCCAGTCCCC
 CTTGCCAGCAATGAGGGACCAACCATGCACTGCAATGTGACCAATAACAGTCACCTTCTGAGGGTGTATG
 GTAGCAACAGGGGGGAAGCTGCAGGCCCTAGTGGAGAGCCACAGAACCGA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1799_b10.zip

Restriction Sites: SgfI-MluI

ACCN: NM_172669

Insert Size: 3903 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](#)

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_172669.3](#), [NP_766257.3](#)

RefSeq Size: 5329 bp

RefSeq ORF: 3903 bp

Locus ID: 228361

UniProt ID: [A2AH22](#)

Cytogenetics: 2 E1

Gene Summary: Regulates autophagy and development of the nervous system. Involved in autophagy in controlling protein turnover during neuronal development, and in regulating normal cell survival and proliferation.[UniProtKB/Swiss-Prot Function]