

## Product datasheet for **SC125736**

### AMBRA1 (NM\_017749) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AMBRA1 (NM\_017749) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** AMBRA1  
**Synonyms:** DCAF3; WDR94  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_017749 edited  
 ATGAAGGTTGTCCAGAAAAGAATGCTGCCGATACTCTGGGGCGAGAACGGGGTCTCGGGCCATGG  
 GAGCTCAGCGGCTTCTGCAGGAGCTGGTAGAGGATAAAACCCGGTGGATGAAATGGGAGGGCAAGAGAGT  
 AGAACTGCCGGATAGTCCACGCTCTACCTTCTTATTGGCCTTCAGCCAGACAGGACTCTCTTAGCCTCC  
 ACCCATGTGAACCATAATATCTATATTACGGAGGTGAAGACTGGCAAGTGTGTTCAATCCCTGATTGGAC  
 ACCGCCGTAATCCATGGTGTGCACTTTTCATCCACCATCTCAGGCCTTATTGCTTCTGGCTGCCTAGA  
 TGGGGAGGTTAGGATTTGGGATTTACACGGTGGCAGTGAAGCTGGTTCACAGATAGCAACAATGCCATT  
 GCCTCCCTGGCTTTCCACCCTACGGCTCAGCTCCTGCTGATTGCCACTGCCAATGAGATCCACTTCTGGG  
 ACTGGAGTCGACGGGAACCCTTTGCTGTGGTGAAGACAGCTAGTGAGATGGAACGGGTCGCTCTGGTGAG  
 ATTTGATCCACTTGGACACTACTACTCACAGCAATTGTTAACCCCTCTAATCAACAGGGTGATGACGAA  
 CCAGAGATCCCCATAGATGGAACAGAATTATCCCCTACCGTCAGCGTGCCTCCTGCAATCACAGCCAG  
 TTGCGCCGACGCCTCTCCTCCACAATTTCTGCACATGCTGTCCCTCCCGCTCTTCTGGCATCCAGACCGA  
 GCCCTTCCATCCCCGGAGCAGGCTCGTCAACGCAGCAGGACCAGGGCCTCCTGAACCGCCGCTGTGCC  
 TTCAGTACAGTCCAGAGCAGCACTGCCGCAACACGCTCCGCAACCTCAGTCTGGGTCTACCCGCGCT  
 CTTTGGGAGGGCCTCTGTCTAGCCACCCTTCTAGGTATCACCGAGAAATAGCTCCTGGGTGACAGGATC  
 TGAGTGGACCCGGACAGTACTCAGTCTGAACTCCCGCTCTGAGGCGGAATCCATGCCCCGCCCAGAACC  
 AGTGCCTCTTCGGTGAGTTTGTGTCTGTGCTGAGACAGCAGGAAGGTGGCTCTCAGGCATCTGTGTACA  
 CTTCAGCCACAGAAGGGAGGGGTTTTCCGGCATCAGGGTTGGCACTGAGTCAGATGGAGGGAATGGCTC  
 CAGCCAAAACAACCTCGGGCAGCATTTCGCATGAGCTTCAGTGTGACCTGAGACGCTTCTTTCTGGAGTAT  
 GACCGGCTTCAGGAGCTGGATCAGAGCCTGAGTGGGGAAGCTCCCAGACCCAACAGGCCAGGAAATGC  
 TCAACAATAACATTGAATCTGAGAGGCCAGGCCCTTCCCACAGCCACCCACACAGCAGTGAGAACAA  
 CTCCAACCTGTCCGTGGCCACTTGAATCGCTGTGCTGCTTGGCACAATCTCCTGACCTTCAACAACGAT  
 ACCCTGCGCTGGGAAAGAACCACACCTAACTACTCCTCTGGCGAGGCTAGTTCCTCTTGGCAGGTCCCCA  
 GCTCCTTTGAGAGTGTGCCATCAAGTGGCAGCCAGTTGCCACCTCTCGAGCGGACTGAGGGCCAAACGCC  
 CAGCTCCAGCAGGCTGGAGTTGAGCAGCTCTGCTAGTCCGAGGAGGAGGACTGTGGGGTGGCCTTT  
 AACAGGAGACAGGCCACTGGGAAAGAATTTACCCAGTCCAGCAGATCTGGAAGTGTGTACAGGAGG  
 CCTTACATCAGGATATGCCTGAGGAGAGCTCTGAGGAGGATTCAGTCCAGGAGGCTGCTGGAATCTTC



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CCTCATTTTCATTATCCCCTTATGATGGAGCAGGATCCAGAGAGCACCCAATTTACCCAGACCCAGCGAGA
TTATCTCTGCTGCATACTACGCCCAGAGGATGATCCAGTATCTCTCACGGAGAGACAGTATTCGCCAGC
GCTCCATGCGCTACCAACAGAACCGTCTCCGTTCTTCCACCTCCTCCTTCTCAGACAACCAGGGTCC
ATCAGTAGAGGGAACCGACTTGGAAATTTGAGGACTTTGAGGACAATGGTGACAGATCCAGGCACCGAGCT
CCACGCAATGCCCGGATGCTGCACCTTCGTTGGACGCTTTGTCCAAAGCGTTCCTTGTGCCTGAGT
ACTTGCCTTATGCTGGGATTTTTTCATGAACGTGGACAGCCTGGCTTGCTACTCACTCTTCTGTAAACAG
GGTCTTGGCAGGGGACAGTGCAGTGCAGTGCAGTCTGCTGTGGCCAGTAAACATTGCCAATACTACCTAC
CGGCTCCAGTGGTGGGACTTCACTAAGTTTGACCTCCCTGAAATCAGTAATGCTTCCGTGAATGTGCTGG
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CATCCCCAGCAGCCAGAGGGGCTTCTGATGAAGGCATCCTGGCAGTGTACTCCCTGGCCCCCATAAC
CTGGGCGAAAATGCTCTACACCAAGCGATTTGGTCCCAATGCCATTTGGTGAGCCTGTCCCAATGGGCA
GATATGTAATGGTGGGCTTGGCCTCACGAAGGATCCTGCTGCACCCCTCCACAGAGCACATGGTGGCCCA
GGTCTTCAGGCTGCAACAGGCCATGGTGGAGAGACCTCCATGAGGAGAGTTTTCAACGCTCTTTATCCC
ATGCTTCCGACAGCGGAGACATGTCAGTATCAACTCTGCCCGTTGGCTGCCTGAGCCAGGGCTTGGCT
TGGCCTATGGTACTAACAAGGAGACCTGGTGCAGTCTGCCGACCAGAGGCCTTAAACTCTGGTGTGAGTA
CTACTGGGACCAGCTGAACGAGACGGTCTTCACTGTCCATTCCAACAGCAGGAGCAGCGAGCGGCCCTGGA
ACCAGCAGAGCCACATGGAGGACAGACAGAGACATGGGGCTGATGAATGCCATTGGGCTTCAACCCCGGA
ACCCTGCCACCTCAGTGACATCTCAGGGCACCGAGACTCTGGCCCTTCACTGCAGAAATGCCGAAACACA
GACTGAGAGGGGAGGTGCCGGAGCCAGGGACAGCCGCTCAGGTCCTGGTGAAGGTGAGGGTTCAAGATAT
GGTGCCAGTGGAGAAGATGCGCTCAGCAGGATCCAGAGGCTGATGGCGGAGGGCGGCATGACAGCCGTGG
TGCAGCGGGAGCAGAGCACCCATGGCCTCCATGGGCGGCTTCGGCAACAACATCATCGTCAGCCACCG
CATTACCGCAGCTCTCAGACGGGCACTGAACCTGGTGGCGCCACACCTCCTCACCCAGCCCTCCACC
TCTCGGGGACTGCTCCCAGAGGCCGGCAACTGGCAGAGCGAGGCCTAAGCCCCGGACAGCTTCTGGG
ACCAGCCTGGTACCCTGGGCGGGAGCCAAACCCAGCCAACCTGCCCTTCTCCTCCCTGTCCCCATTCC
TGTTTCCCTTCCAGCGCTGAGGACCAACCGTCCACTGCGAGTTGACCAATAACACCCTTCTGGAT
GGTGGCAGCAGCAGGGGGACGCTGCAGGCCCTAGGGGAGAACCAGGAACAGGTAG
    
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017749

**Insert Size:**

3600 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](mailto: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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_017749.2](#), [NP\\_060219.2](#)

**RefSeq Size:** 5044 bp

**RefSeq ORF:** 3627 bp

**Locus ID:** 55626

**UniProt ID:** [Q9C0C7](#)

**Cytogenetics:** 11p11.2

**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 (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 5' UTR and lacks an exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. Variants 2 and 8 both encode the same isoform (2).