

## Product datasheet for MR224548

### Abca3 (NM\_013855) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Abca3 (NM\_013855) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Abca3  
**Synonyms:** 1810036E22Rik; ABC-C; Abc3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR224548 representing NM\_013855  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGGATCGCC

ATGGCAGTGCTGCGGCAGCTCACCTCCTACTCTGGAAGAACTATACCCTGAAGAAACGGAAGTTCTAG  
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 GTCGGAGAATGTGCCAATGCCACTGTTTACCCGGACCAGTCCATCCAGGAGCTGCCCTGTTTTCTCA  
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TCCTACTGGTGTGGGAACCCAAGAACTGTCGTAGGGAAGGAAGAGGAAGGCAGCGACCCAGAGAAAGCTC  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
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**Protein Sequence:**

>MR224548 representing NM\_013855  
Red=Cloning site Green=Tags(s)

MAVLRQLTLLWKNYTLKRRKVLVTVLELFLPLLSGIL IWLRLKIQSENVNATVYPDQSIQELPLFFS  
FPPPGGTWELAYVPSHSDAARTITETVKREFMIKMRVHGFSSSEKDFEDYIRYDNHSSSVLA AVVFEHSFN  
HSQDPLPLAVKYHLRF SYTRRNYMWTQTGNIFLKETEGWHTTSLFPLFPSPGPREPSSPDGGEPGYIREG  
FLAMQHAVDKAIMRYHANTSAQQLFQKLMVITKRFPFPPIYSDPFLIAIQYQLPLLLMLSFTYTSLTIIIR  
AVVQEKELKKEYMRMMGLNSWLHWSAWFLMFFLFFLI VVSFMTLLFCVKVKKDIAVLSNSDPSLVLAFL  
LCFAISSISFSFMVSTFFSKANIAAAVGGFLYFFTYTPYFFVAPRYNWMTL SQKLLSCLLSNVAMAMGAQ  
LIGKFEAKGTGIQWRDLLNPVNVDDNF CFGQVLGMLLLDSALYGLV TWYVEAVFPGQFGVPQPWHFFLMP  
SYWCGNPRTVVGKEEESDPEKALRNEYFEAEPEDLVAGIKIKHLSKVFQVGNKDKMGIRDLTNLNLYEGQ  
ITVLLGHNGAGKTTTMSLLTGLFPPTSGHAYIHGYEISQDMAQIRKSLGLCPQHDVLF DNLTVAEHLFYF  
AQLKGLSLQKCP EEVKQMLHILSLEDKRDLSKFLSGGMKRKLSIGIALIAGSKVLMDEPTSGMDAVSR  
RAIWDLLQQKSDRTVLLTTHFMDEADLLGDRIAILAKGELQCCGSSLFLKQKYGAGYHMTLVKEPHCNP  
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KLVDTSMDIQAIQLPALQYQHERRASDWALDSNL CGVMDPTNGIGALIEEEEVLVKLNTGLALHCQQFWA  
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QLSENLRDMLQAERQEPREVLGDLEEFVFRASVEGGFNERCLVATSFKDRGELTVVTALFNNQAYHSP  
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SERAVQAKHVQFVSGVHVATFWFSALLWDLISFLVPSLLLLVVFQAFNVHAFTRDGHMADLLLLLMLYGW  
AIIPLMYLMSFFFSAASTAYTRLTIFNILSGIATFIMVTIMRIPAVKLEELSRTL DHVFLVLPNHCLGMA  
VSNFYENYETRRYCTSSELAHYCKKYNIQYQESFYAWSTPGVGK FVTSMAASGGIYL TLLFLIETNLLW  
RLRTFICAFRRRWTLAELQNRTSVLPEQDVAEERSRILVPSLDSMLDTPLIINELSKVYDQRAPLLAVD  
RISLAVQKGECEGFLGFGAGKTTTFKMLTGEETITSGDAFVGGYSISSDIGKVRQRMGYCPQFDALLDH  
MTGREMLVMYARLRGIPERLINACVENTLRGLLLEPHANKLVKTYSGGNKRKLSIGIALIGEPAVIFLDE  
PSTGMDPVARRLLWDTVARARESGKAIIVITSHSMEECEALCTRLAIMVQGQFKCLGSPQHLKSKFGSGYS  
LQAKVRSEGKQDALEEFKAFVDLTFPGSILEDEHQDMVHYHLP GCDLSWAKVFGILEKAKEKYGVDDYSV  
SQISLEQVFLSFAHLQPPTTEDGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9001\\_a02.zip](https://cdn.origene.com/chromatograms/mm9001_a02.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_013855

**ORF Size:** 5112 bp

**OTI Disclaimer:** 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\\_013855.3](#), [NP\\_038883.2](#)

**RefSeq Size:** 6453 bp

**RefSeq ORF:** 5115 bp

**Locus ID:** 27410

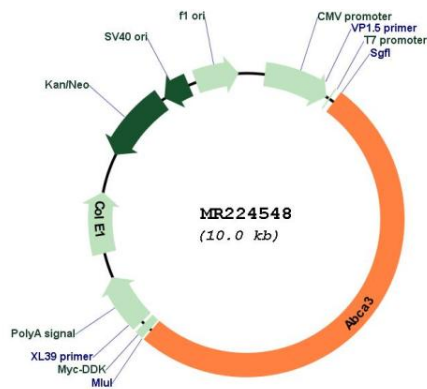
**UniProt ID:** [Q8R420](#)

**Cytogenetics:** 17 A3.3

**MW:** 192.4 kDa

**Gene Summary:** Plays an important role in the formation of pulmonary surfactant, probably by transporting lipids such as cholesterol.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224548