

Product datasheet for **MC224093**

Abcb5 (NM_029961) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Abcb5 (NM_029961) Mouse Untagged Clone
 Tag: Tag Free
 Symbol: Abcb5
 Synonyms: 9230106F14Rik
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >MC224093 representing NM_029961
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAAATTCGAAAGAACCAACGGGTTGCAAGAACTAATCAGAGATATGGACCTCTGCAAGAACAAG
 TGCCATAAAGTGGAAATCAAGCTGTTGGACCTATTGAGATATCCGCTTTGCTGATAATCTGGACATTGT
 CCTCATGACTCTGGGAATATTAGCATCCATGATAAATGGAGCCACCGTTCCTTTAATGTCCCTGGTTTTA
 GGAGAAAATAAGTGATCATTAAATTAATGGATGCCTAGTACAACTAACAGAACTAAATATCAGAAGCTGT
 CTCAGACTCAAGAAAAGCTGAATGAAGATCATTGTGTTGACTCTATATTATATTGGAATAGGAGCAGC
 TGCCCTCATTTTTGGCTATGTACAGATTCCTTCTGGGCATAACTGCAGCCCGCAAACCAAGAATC
 CGAAAACAGTTTTTTCATTCAATTTTGGCACAAGACATCAGCTGGTTTGATGGCAGTGACATCTGTGAAC
 TTAACACCCGCATGACTGGTGACATCAACAACTCTGTGATGGTATTGGAGATAAGATCCCTCTGATGTT
 TCAGAACATATCTGGGTTTTCTATTGGCCTGGTGATAAGTTTGATAAAAAGCTGGAACTCTCCCTGGTG
 GTTCTGTCTACATCTCCTCTCATAATGGCTTCATCGGCACTGTGCTTAGGATGATTATCTCATTGACCA
 GCAAGGAGCTGGATGCCTATTCCAAAGCTGGGGCTGTGGCTGAAGAAGCCTTGTCATCAATCCAAACAGT
 CACAGCCTTTGGAGCCCAAGAGAAAGAAATTCAAAGGTATACACAGCACTTAAAGGACGCAAAAGGACGCT
 GGCATAAAGAGGGCTACGGCTTCAAAGCTGTCTCTTGGAGCAGTCTACTCTTTATGAATGGAGCCTATG
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 TGCTGTTTTCTCAGTGTGATCCATAGTAGTACTGCATTGGATCTGTAGCCCTCACCTGGAAACCTTC
 ACAGTAGCCAGAGGAGCTGCCTTAATATTTCCAGGTTATTGATAAGAAACCAATATAGATAACTTTT
 CAACAGCTGGATTTGTACCTGAATGTATAGAAGGAAACATAGAATTTAAAAATGTTTCTTCAGCTATCC
 ATCAAGACCTTCTGCAAGGTTCTGAAAGGTCTCAATCTGAAGATTAAGGCTGGAGAGACAGTAGCCTTG
 GTTGGTCCAGTGGCAGTGGCAAGAGTACGACAGTGCAGCTTCTGCAGAGGCTGTATGACCCAGAGGACG
 GCTGTATCACCGTAGATGAGAATGACATCCGAGCCAAAACGTGCGACATTACCGAGAGCAAATGGAGT
 GGTGAGACAAGAGCCAGTTCTGTTTGGGACCACCATCGGTAACAATTAAGTTTGGGCGCGAAGGTGTG
 GGTGAAAAGGAAATGGAACAGGCAGCGAGGGAGGCAAACGCTACGACTCATAATGGCCTTTCCTAAGA



AATTTAATACTAGTAGGGGAAAAAGGAGCTCAATGAGTGGAGGCCAGAAACAGAGGATTGCCATTGC
 TCGAGCGCTAGTTCGAAACCCCAAAATTCTGATCTTAGATGAGGCTACATCTGCCCTGGACACAGAGAGT
 GAATCACTTGTTCAAACTGCACTGGAGAAGGCAAGCAAAGGCCGGACTACAATTGGTAGCACACAGGC
 TCTCCACCATTCTGGGGCAGACCTGATTGTGACAATGAAGGATGGCATGGTGGTGGAGAAAGGGACCCA
 TGCTGAATAATGGCAAAGCAGGGGCTGTACTACTCCCTGCCATGGCACAGGATATTAAGGTCGAT
 GAACAAATGGAATCAAGGACATGTTCCACTGCAGGAAATGCCAGCTATGGTCTCTGTGCGATGTAATA
 GTGCCAAGGCCCTGCACTGACCAGCTGGAGGAAGCCGTACACCATCAAAAGACAAGTCTTCTGAAAT
 TTCACTATTAATAATTTAAATTAAGCAAGTCTGAATGGCCTTTTGTGGTCTGGGAACACTGGCTTCT
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 TCTTGTCACTACTTGTGACAGGATTGTTTTATGGCAGAGCAGAGGAAAATTTAGCCATGAGATTAAGA
 CACTCGGCATTCAAAGCCATGCTCTACCAGGATATGGCCTGGTATGATGATAAAGAGAACAACACTGGAG
 CCCTGACCACAACGTTAGCTGTGGATGTAGCACAGATTCAAGGTGCAGCAACTTCAAGACTTGGGATCGT
 AACACAAGATGTGAGCAACATGAGTCTGCCATTCTCATCTCCTTCATATATGGATGGGAGATGACTCT
 CTGATTCTCAGCTTCGCGCTGTACTTGGCGTGCAGGAATGATTCAAACCGCAGCAATGGCTGGCTTTG
 CCAACAGGGATAAGCAGGCGCTCAAGCGTGTGGAAAGATAGCAACAGAAGCTGTGGAGAACATAGTAC
 GGTAGTGTCAATAACAAGAGAGAGAGCCTTTGAGCAAATGTATGAGGAGACACTTCAGACTCAACACAGA
 AACGCCTTGAAGAGAGCACATCACTGGATGCTGTTATGCAGTCAGCCATGCTTTTGTGCATTTTGCC
 ATGCAGCAGGGTCCGATTTGGAGCCTATTTGATTCAAGCAGGACGGATGATGCCGGAAGGCATGTTTCAT
 AGTCTTTACCGCCATTGCATATGGGGCTATGGCCATTGGAGAAACACTTGTATGGGCTCCTGAATATTCC
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 GGGAGCAGCGGCTGTGGAAAAAGCACATGTGTTCAACTGCTGCAAAGATTTTATGACCCCATGAAAGGAC
 AAGTGCTGCTTGACGGAGTTGATGTAAGAATTGAACGTGCAGTGGCTGCGTTCAGACAGCCATCGT
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 GTGCCCTTAGAGGAGATCAAAGAGGTGCGAGATGCAGCCAACATTCATTCTTTCATTGAAGGGCTCCCAA
 GGAAATACAACACCCTAGTGGGACTAAGAGGCGTGCAGCTTTCTGGCGCCAGAAACAAAGACTGGCTAT
 TGCAAGGGCTCTTCTCCGGAAGCCAAAAATTTACTGCTGGATGAGGCCACTTCAGCCCTTGATAATGAG
 AGTGAGAAGTGGTCCAACAGGCTTTGATAAAGCCCGGAGAGGGAAGACCTGCCTAGTGGTGGCTCACA
 GACTCTCTACAATACAGAATGCAGATATGATCGTTGTTCTGCAAATGGAAGCATCAAGGAGCAGGGAAC
 TCATCAGGAGCTCCTGAGAAATGGAGATACATACTTTAAATTAGTAGCTGCACAT TAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_029961

Insert Size:

3768 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_029961.2](#), [NP_084237.1](#)

RefSeq Size: 3876 bp

RefSeq ORF: 3768 bp

Locus ID: 77706

UniProt ID: [B5X0E4](#)

Cytogenetics: 12 F2

Gene Summary: Drug efflux transporter present in a number of stem cells that acts as a regulator of cellular differentiation. Able to mediate efflux from cells of the rhodamine dye and of the therapeutic drug doxorubicin. Specifically present in limbal stem cells, where it plays a key role in corneal development and repair.[UniProtKB/Swiss-Prot Function]