

## Product datasheet for **RN214716**

### Abcc4 (NM\_133411) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Abcc4 (NM\_133411) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Abcc4  
**Synonyms:** Mrp4; RGD1565953  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN214716 representing NM\_133411  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGC**C

ATGCTGCCGGTGCACACCGAGGTGAAACCAACCCGCTGCAGGACGCCAACCTCTGCTCGCGCTTGTCT  
TCTGGTGGCTCAACCCGTTGTTAAAGCTGGACATAAGCGGAGATTGGAAGAAGATGACATGTTTTCACT  
GCTTCCAGAAGATCGCTCAAAGCACCTTGGAGAGGAGTTGCAAGGGTACTGGGATAAAGAAGTTCTGCGA  
GCCAAGAAGGACGCTCGGAAGCCTTCTTAACGAAGGCAATCGTGAAGTGTACTGGAAATCTTACTCTGA  
TTTTGGGAATTTTACGTTAATTGAGGAGACCACCCGAGTAGTTCAGCCCATATTTTTAGGGAAAATTAT  
TGATTATTTTGAAGATGACTCTGACGACTCGGCCGCTTTCACACAGCTTACGGCTACGCGCGGGT  
CTGTGCTGTGCACGCTCATCTGGCCATACTACATCACTTGTATTTCTACCACGTGCAGTGCGCCGGGA  
TGAGGATACGGGTCGCCATGTGCCACATGATTTACCGGAAGGCTCTCCGGTAAGTAACCTCGCCATGGG  
GAAGACAACACGGGCCAGATAGTCAACCTGCTGTCCAACGACGTGAACAAGTTTGACCAGGTGACCATC  
TTCTTGCACTTCTGTGGCGGGCCGCTGCAAGCCATAGGGTAACCATCCTTCTCTGGGTGAAATCG  
GAATCTCTGTCTGGCGGCCCTGGCCATTCTGGTTATTCTGCTGCCTCTGCAAAGCTGCATCGGGAAACT  
GTTCTCGTCACTGCGGAGTAAAACAGCGGCTTTCACGGATGCCAGGTTCCGGACCATGAATGAAGTGATA  
ACGGGCATGAGGATAATAAAGATGTACGCGTGGGAGAAGTCATTCCGCCACCTCATAACCAATCTGAGAA  
AGAAGGAAATTTCTAAGATTCTGGGCAGCTCTACCTCAGAGGGATGAACATGGCGTCTGTTTTCTATTGC  
AAACAAAGTCATCTGTTCTGTGACCTTACCACCTATGTGCTGCTGGCAATAAGATTACATCTAGCCAC  
GTGTTCTGTGGCCATGACTCTGTATGGTGTGTCGGTTGACAGTTACCCTCTTCTTCCATCAGCCATTG  
AGAGAGTGTGAGGCGCTGTCAGCGTTCCGAGGATCAAGAATTTCTGTTACTCGATGAAGTCCGAG  
GCGCAAAGCCCAGGAACCATCTGATGGCAAAGCCATCGTTCACGTGCAAGATTTTACCGCTTCTGGGAC  
AAGGCATTAGACTCTACCTGCAAGGTCTTCTTCACTGCCAGACCTGGTGAGTTGTTAGCTGTGG  
TCGGCCAGTCCGAGCAGGCAAGTCTGCTGTTGAGCGCGGTGCTCGGTGAGCTGCCTCCCACCAAGTGG  
GCTGGTCAAGTGCACGGGAGGATCGCTACGTTTCCAGCAGCCCTGGGTGTTCTCAGGAACCGTGAGG  
AGCAATATTTTATTTGGGAGGAAATACGAGAAAGAACGCTACGAGAAAGTCATCAAGGCCTGTGCTCTGA



AGAAGGACTTGC AACTTCTGGAGGACGGGGATCTGACTGT CATAGGCGACCGGGGAGCCACGCTGAGCGG  
 AGGCCAGAAAGCACGGGTGA ACTTGGCACGGGCAGTCTACCAGGATGCCGACATCTACCTCCTCGATGAT  
 CCGCTCAGTGTGTTGATGCAGAAGTGGGCAAGCACCTGTTCCAGCTGTGTATCTGCCAGACTTTGCACG  
 AGAAGATCACCATTTTAGTGACTCACAGTTACAGTACCTCAAAGCTGCAAGCCACATCTCATACTAAA  
 AGATGGCGAAAATGGTGCAGAAGGGGACTTACACCGAGTTTCTGAAGTCTGGTGTAGATTTTCGGTTCCTG  
 CTAAGAAGGAAAAATGAGGAAGCAGAGCCCTCCCCTGTCCAGGAACCCGACACTCAGGAACCGAACCT  
 TCTCCGAGGCCCTCGATTTGGTCTCAACAGTCATCCAGACCTCGTTGAAAGACGGGGTCCCAGATGCCCA  
 AGATGCAGAGAATACTCAGGCAGCTCAACCCGAGGAGAGCCGTT CAGAAGGGAGAATCGGCTTCAAGGCC  
 TACAAGAATACTTCTCTGCAGGCGCATCTGGTTTTTTCATTATTTTCTCGTTCTGCTTAACCTGATGG  
 GTCAGGTTTTCTACGTTCTTCAGGACTGGTGGCTTTCCCACTGGGCGAATAGGCAAGGTGCCCTGAATGA  
 CACCAAAAACGCGAACGGGAATGTAACCGGGACCTCGATCTCAGCTGGTACTTAGGGATTTACACAGGT  
 TTAAGTGCAGTACAGTCTCTTTGGCATAGCGAGATCCCTGCTGGTGTCTATGTCCTTGTGAATGCTT  
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 CTAGACTTCATCCAGACCTTGCTCCTTGTGTAAGTGTGATCGCCGTGGCGGCGCCGTGATCCCTTGGA  
 TCCTCATACCCCTGGTTCACACTCCTCATCTTTGTGGTCTTCGGAGATATTTCTTAGAAACGTGCGG  
 GGACGTCAAGCGCCTGGAGTCCACAACACGGAGCCCGGTATTCTCCCATTATCATCCTCCCTCCAGGGA  
 CTCTGGACCATCCGTGCCTATAAGGCTGAAGAGAGGTGT CAGGAGCTGTTTGTGACACACCAGGACTTGC  
 ATTCAGAGGCTTGGTTCTTGTTCCTGACGACATCAAGATGGTTTCGCCGTGCGTCTGGACGCCATCTGCGC  
 CGTCTTTGTGATCGTGTTCCTTCGGTCCCTGGTCTTGCCAAAGACCTTGGATGCTGGGCAGGTTGGC  
 TTGGCCTTGTCTACTCCCTCACGCTCATGGGGATGTTCCAGTGGTCTGTGAGACAGAGCGCCGAAGTAG  
 AGAATATGATGATTTCTGTGGAGAGGGTGAATGAATACACGGACCTAGAGAAGGAGGCGCCTTGGGAATG  
 CAGGAAGCGCCACCCCGAGGCTGGCCCAAGGAGTAATTGTCTTCGACAATGTGAACCTCACCTAC  
 AGCTTGGACGGGCCCTTGTCTGAAGCACCTGACCGCACTCATCAAGTACAGAAAAGGTTGGAATTG  
 TGGGAAGAAGTGGAGCTGAAAAAGTCCCTCATCTCAGCCCTCTTCAGGTTGTGAGAACCTGAGGGGAA  
 AATCTGGATTGATAAGATCTTGACGACTGAAATTGGACTTCACGATTTAAGGAAGAAAATGTCAATCATA  
 CCTCAGGAACCTGTCCTGTTCACTGGAACCATGAGGAAGAACCTGGACCCCTTAAATGAGCACTCGGACG  
 AGGAGCTGTGAAAGCCCTAGAGGAGGTACAACCTAAAGAGGCCATAGAAGATCTTCTGGTAAAATGGA  
 CACTGAACTAGCAGAATCTGGATCCAATTTAGTGTGGACAGAGACAGTTAGTGTGCCCTTGCAGGGCA  
 ATTCTGAAGAAAACCGGATACTGATCATTGATGAAGCAACTGCAAATGTGGATCCGAGAACTGACGAGT  
 TAATAACAACAGAAAATCCGGGAGAAGTTTCCCACTGCACTGTTCTCACCATTGCTCACAGACTGAACAC  
 CATATTGACAGCGACAAGATAATGGTTTTGGATTTCGGGAAGACTGAGAGAATATGATGAGCCGTATGTT  
 TTGCTGCAGAATCCAGAGAGCCTCTTTACAAGATGGTT CAGCAGCTGGGTAAGGGCGAAGCCGCTGCC  
 TCACCGAAACAGCAAAACAGGTGTACTTCAGACGGAAATATCCGGATATTGCAATTCAGCAGCCCTGCGGT  
 TATGAGCACCTCCAACGGACAGCCCTCCGCCTAACGATATTTGAAACAGCATTG**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_133411
- Insert Size:** 3978 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\\_133411.1](#), [NP\\_596902.1](#)

**RefSeq Size:** 4526 bp

**RefSeq ORF:** 3978 bp

**Locus ID:** 170924

**UniProt ID:** [Q6QMG6](#)

**Cytogenetics:** 15q24

**Gene Summary:** ATP-binding cassette (ABC) multiple drug resistance protein (MRP) that mediates reduced glutathione release from hepatocytes into blood by cotransport with monoanionic bile salts [RGD, Feb 2006]