

Product datasheet for **RR200856**

Abcc1 (NM_022281) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc1 (NM_022281) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Abcc1
Synonyms: Abcc1a; Avcc1a; Mrp; Mrp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200856 representing NM_022281
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCTGAGCAGCTTCTGCAGCTCTGATGGCTCCGATCCGCTCTGGGATTGGAATGTCACATGGCACA
 CCAGCAACCTGACTTTACCAAGTGCTTTCAGAATACGGTCTCACATGGGTGCCTTGTTTCTACCTCTG
 TCCTGTTTCCCCTCTACTTCTCTATCTCTCGACATGACCGGGGCTACATCCAGATGACACACCTC
 AACAAAGCAAACTGCCTTAGGATTTTCTGTGGATCATCTGCTGGGAGACCTTTCTACTCTTTCT
 GGGAAAGAAGTCAGGGAATGCTCCTAGCCCCGGTCTACTGGTCAGCCCCGACTGCTAGGCATACCAT
 GCTGCTCGCCACCTTTTTAATTCAGTTTGTAGCGAAGGAAAGGAGTCCAGTCTCAGGGATAATGCTTACT
 TTCTGGCTTGTAGCCCTACTCTGCGCCCTTGCCATCTTGAGATCTAAGATCATCTCTGCCTAAAAAAGG
 ATGCTCAAGTGGACATGTTTCGAGATTCTGCATTCTATCTCTACTTCACCCTCGTGTTCATTAGCTTGT
 GCTGCTGCTTCTCAGACAGCTCACCTTGTCTCTGAACTGTCCGTGACCCGAATCCATGTCCAGAA
 TCGAGTGCCTCTTTTCTCCAGGATCACTTTTTGGTGGATTACAGGGATGATGGTGCAGGGCTACCGCC
 AGCCCCGAAGAGCAGTACCTCTGGTCATTGAATAAAGAGGACACGTCAGAAGAAGTGGTACCTGTGCT
 GGTGAATAACTGGAAGAAGGAATGTGTTAAGTCGAGGAAGCAGCCTGTACGGATTGTGTATGCCCTCCC
 AAAGATCCACCAAGCCTAAGGGAAGTTCTCAGTTGGATGTGAATGAGGAAGTGGAGGCACTGATTGTCA
 AGTCATCCACAAGGACCGGGACCCCTCTCTGTTCAAGGTGTTGTACAAGACCTTTGGGCCCTACTTCT
 CATGAGCTTCTGTACAAGGCCCTTCAAGACCTGATGATGTTTGTGGCCCTGAGATCTTGAATTGATT
 ATCAACTTCGTGAATGACAGGGAGGCCCTGACTGGCAGGGCTACTTGTACACAGCACTGCTGTTTGTCA
 GTGCCTGTCTGCAGACACTGGCACTCCACCAGTACTTTTCATATCTGCTTCGTCACCGGCATGCGCATCA
 GACTGCTGTGGTGGTGTGTTTACCGCAAGGCTCTTGTGATCACAATTCAGCTAGAAAATCGTCCACA
 GTTGGAGAGATTGTCAACCTCATGTCCGTGGATGCCAGCGCTTCATGGACTTGGCCACGTATATTAACA
 TGATCTGGTCAGCCCCTCTGCAAGTCAACCTAGCCCTCTACTTCTGTGGCTGAACCTGGGCCCTTCTGT
 GCTGGCTGGGGTGGCTGTTATGATCCTCATGGTGCCTTCAATGCTGTGATGGCCATGAAGACCAAGACT
 TACCAGGTGGCACACATGAAGAGCAAAGACAACCGAATCAAGCTGATGAACGAGATCCTCAATGGGATCA



[View online >](#)

AAGTACTCAAATTGTACGCCTGGGAGCTGGCTTTCCAGGACAAAGTTATGAACATCAGGCAGGAGGAGCT
GAAGGTGCTGAAGAAATCCGCCTACCTGGCGGCTGTGGGCACATTACATGGGTTTGACACCTTTCCTG
GTGGCTGTGCAACCTTTGCTGTCTTTGTGACTGTGGACGAGAAGAACATCCTAGATGCAAAGAAAGCCT
TTGTATCCCTAGCCCTGTTCATATCTTGCCTTCCCCTCAACATCCTACCCATGGTATCAGCAGCAT
TGTGCAGGCCAGCGTGTCCCTCAAGCGTCTCAGGATCTTCTGTCTCACGAGGAGCTGGAGCCAGACAGC
ATCGAGCGATGGTCGATCAAGGATGGTGGAGGGATGAATAGCATCACTGTGAAGAATGCAACCTTCACTT
GGCCAGGGATGAACCTCCCACACTGAATGGCATCACCTTCGCCATCCCTGATGGAGCCCTTGTGGCCGT
GGTGGGCCAGGTAGGCTGTGGGAAGTCATCTCTGCTGTACGCCCTGCTGGCTGAGATGGACAAAGTGGAG
GGACATGTGACTCTCAAGGGCTCCGTGGCCTATGTGCCCCAGCAGGCCTGGATTGAGAATGACTCTCTCC
GAGAGAACATACTGTTTGGGCGCCCCCTGCAGGAACATTGCTACAAGCGGTGATGGAAGCCTGTGCCCT
CCTTCCGATTTGAAATCCTTCCCAGTGGGGACCTCACAGAGATTGGTGAAGGGTGTGAACCTGTGCG
GGGGCCAGAAGCAGCGTGTGAGCCTGGCTCGGGCTGTGTATTGTAACCTGACATCTACCTCTGGACG
ACCCCTCTCGGCTGTGGATGCACATGTGGGAAGCACATCTTGAAGGTGGTGGTCCCATGGCCCT
ACTGAAGAACAAGACACGGATCCTGGTCACCCATGGTATCAGCTACCTGCCCAAGTGGATGTCATCATT
GTCATGAGTGGCGCAAGATCTCAGAGATGGGATCTTATCAGGAGCTGCTAGACCGGGATGGGCCCTTTG
CTGAGTTCGTGGCCACCTATGCCAACACTGAGCAGGACCTGGCTTCAAGGATGACAGTAAGAATGGTGT
CAGTGGTTTAGGGAAGGAGTCAAAGCCGGTGGAAAATGGGATACTGGTGACAGACGAGTGGGAAGCCC
CTGCAGAGGCATCTCAGCAACTCTTCTCCCACAGTGTGGTACTAACCAGCAGCACAGCAGCACAGCCG
AGCTGCAGAAGTCTGGAGTTAAGGAGGAGACTTGAAGCTGATGGAAGCAGACAAGGCCAGACAGGGCA
GGTGAAGCTTCCCGTGTACTGGAACACATGAAGGCCATTGGCCTCTGCATCTCCTTCTTGTAGTATCTT
CTTTTCTGTGCAATCATGTATCTGCACTGGCTTCTAACTATTGGCTGAGTCTCTGGACAGATGACCGCC
CTGCTGTCAATGGGACTCAGGAGAACAGGAATTTTCGACTAAGTGTCTATGGGGCCTTGGGCATCTTGA
AGGTGTGGCAGTATTTGGCTATTCATGGCTGTGTCCATTGGGGGCATCTTGGCCTCCGCTCGCCTGAC
CTAGACTGCTACAGAATGTCTCGCATACCCATGAGTTTCTTGGAGCGTACACCCAGTGGGAACCTAG
TGAACCGATTCTCAAGGAGTTGGACACAGTGGACTCCATGATCCCGCAGGTATCAAGATGTTATGGG
TTCATCTTCACTGTGATTGGAGCTGTATCATCATCCTACTGGCTACGCCATTGCCGAGTATCATC
CCACCCTTGGGTCTGGTTACTTCTTTGTGAGAGGTTCTATGTGGCCTCCTCTGACAGCTGAAGCGCC
TGGAGTCTGTGAGTGTGCTTCCCCTGTGTACTCACACTTCAATGAGACCTTGTGGGGTCACTGTCATCCG
TGCCTTTGAGGAACAGGAGCGCTTATTGCGCAAAGTACCTGAAAGTAGATGAGAACCAGAAGGCCATC
TACCCAGCATTGTGGCCACAGGTGGCTTGTGTGCGCCTGGAGTGTGGGCAACTGCATTGTGCTGT
TTGCTGCCCTTTTCGAGTATCTCCCAGCATAGCCTCAGTGTGCTGGCTTGGTGGTCTCTGTGTCTTA
CTCACTGCAGATAACTGCATACTTGAAGTGGCTAGTTCGAATGTCTCTGAGATGGAGACCAACATTGTG
GCAAGTGGAGAGACTGAAGGAATATTCTGAAACGGAGAAGGAGGCTTCTTGGCAAATCCAAGACAGCTC
CACCCAGCACCTGGCCCCATTAGGCGGTGTAGAGTTCGGGATTAAGTGTGAGGATCGAGAAGACTT
GGACTTGGTTCTCAAGCACATAAATGTCACCATGAGGGTGGAGAAAAGGTTGGTATTGTGGGTCGTACA
GGAGCTGGGAAATCATCTCTCACCTGGGTTTGTCCGGATCAATGAGTCTGAGAAGGGGAGATCATCA
TTGATGGGATAAACATTGCTAAGATTGGCTGCACAACCTGCGCTTCAAGATCACCATCATTCCACAGGA
TCCTGTTTTGTTCTCGGTTCCCTCCGATGAACCTGGACCCTTTCAGTCACTTCTGATGAAGAAGTC
TGGATGGCTCTGGAGCTTGTCTCACCTGAAGGGCTTTGTGTCAGCCTTGCCTGACAAGCTGAACCATGAGT
GTGAGAAGGTGGAGAGAATCTGAGTGTGGGGCAGCGACAGCTTGTGTGCTGGCCGGGCTTGTGAG
GAAGACAAAGATTCTAGTGTGGACGAGCTACAGCAGCTGTGGATCTGGAGACAGATGACCTTATTGAG
TCCACCATCCGGACGAGTTTGAAGACAGTACTGTGCTCACTATTGCTCATCGGCTGAATACCATAATGG
ACTATAAAGGGTATTGTCTGGACAAAGGAGAAATTCGGGAGTGTGGTGCACCCTCTGAGCTCTGCA
GCAAAGAGGCGTCTTCTATAGCATGGCCAAAGGATGCTGGCTTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200856 representing NM_022281
 Red=Cloning site Green=Tags(s)

```

MALSSFCSSDGS DPLW DWNVTWHTSNPDFTKCFQNTVL TWVPCFYLW SCFPL YFLYL SRHDRGYIQMTHL
NKAKTALGFLLW IICWADLFYSFWERSQGM L LAPVLLV SPTLLGITMLLATFLIQFERRKGVQSSGIMLT
FWLVALLCALAILRSK IISALKKDAQVDMFRDSAFYL YFTLVFIQLVLS CFSDSSPLFSETVRDPNPCPE
SSASFLSRITFWWITGMMVQGYRQPLKSSDLW SLNKEDTSEEVPVVL VNNWKKCECVKSRKQPVRIVYAPP
KDPTKPKGSSQLDVNEEVEALIVKSSHKDRDPSL FKVLYKTFGPYFLMSFLYKALHDLMMFAGPEILELI
INFVNDREAPDWQGYLYTALLFVSACLQTLALHQYFHICFVTGMRIKTAVVGAVYRKALVITNSARKSST
VGEIVNLSVDAQRFM DLATYINMIWSAPLQVTLALYFLWNLGPSVL AGVAVMILMVPFNAVMA MTKT
YQVAHMKSKDNRIKLMNEILNGIKVLKLYAWELAFQDKVMNIRQEELKVLKKSAYLA AVGTFTWVCTPFL
VALSTFAVFVTVDEKNILDAKKAFVSLALFNILRFPLNILPMVISSIVQASVSLKRLRIFLSHEELEPDS
IERWSIKDGGGMNSITVKNATFTWARDEPPTLNGITFAIPDGALVAVVGQVGC GKSSLLSALLAEMDKVE
GHVTLKGSVAYVPQQA WIQNDSLRENILFGRPLQEHCYKAVMEACALLP DLEILPSGDLTEIGEKVNLS
GGQKQRVSLARAVYCNSDIYLLDDPLSAVDAHVGKHI FEKVVGPMGLLKNKTRILVTHGISYLPQVDVII
VMSGGKISEMGSYQELLDRDGAFAEFVRTYANTEQDLASEDDSKNGV SGLGKESKPVENGILVTDVAVGK
LQRHLSNSSSHSVVTNQQHSSTAE LQKSGVKEETWKLMEADKAQTGQVKLSVYWN YMKAIGLCISFLSIF
LFLCNHVSALASNYWLSLWTD DRPAVNGTQENRNFRLSVYGALGILQGVAVFGYSMAVSI GGIFASRRHL
LDLLQNVL RSPMSFFERTPSGNL VNRFSKELDTVDSMIPQVIKMFMSLFSVIGAVII ILLATPIAAVII
PPLGLVYFFVQR FYVASSRQLKRL ESVSRSPVYSHFNETLLGVS VIRAFEEQERFIRQSDLKVDENQKAY
YPSIVANRWLAVRLECVGN CIVLFAALFAVISRHSLSAGLVGLSVSYSLQITAYLNWLVRMSSEMETNIV
AVERLKEYSETEKEASWQIQETAPPSTWPHSGRVEFRDYCLRYREDLDLVLKHINVTIEGGEKVGIVGRT
GAGKSSLTLGLFRINESAEGEI IIDGINIAKIGLHNLRFKITII PQDPVLFSGSLRMNLD PFSQYSD EEV
WMALELAHLKGFVSALPDKLNHECAEGGENLSVGQRQLVCLARALLR KTKILVLD EATAAVDLETD DLIQ
STIRTQFEDSTVLTIAHRLNTIMDYTRIVL DKGEIRECGAPSELLQQRGVFYSMAKDAGLV
  
```

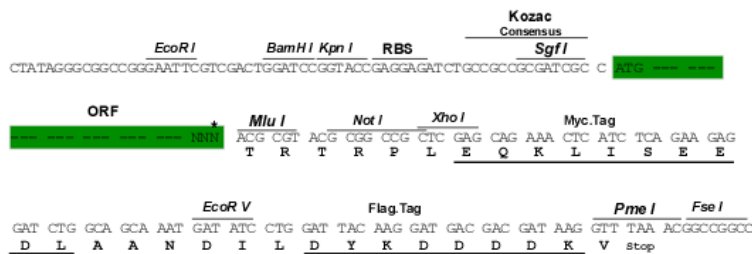
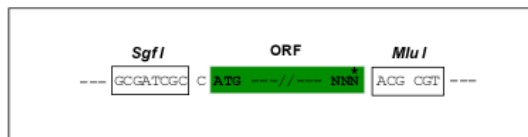
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

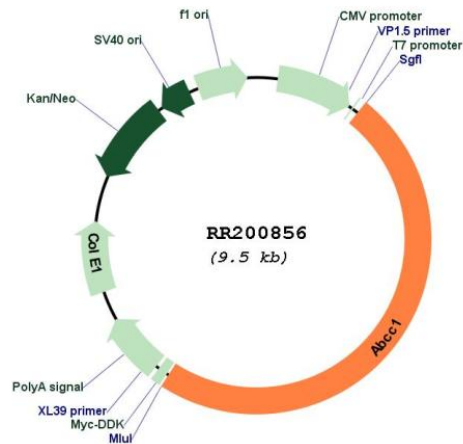
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN:	NM_022281
ORF Size:	4596 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_022281.2](#), [NP_071617.2](#)

RefSeq Size: 4981 bp

RefSeq ORF: 4599 bp

Locus ID: 24565

UniProt ID: [Q8CG09](#)

Cytogenetics: 10q11

MW: 171.5 kDa

Gene Summary: ATP-binding cassette (ABC) multiple drug resistance protein involved in the release of glutathione synthase during oxidative stress [RGD, Feb 2006]