

Product datasheet for **RR212798**

Abcc2 (NM_012833) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Abcc2 (NM_012833) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Abcc2
Synonyms: Cmoat; cMRP; mrp; Mrp2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212798 representing NM_012833
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGGATCGCC

ATGGACAAGTCTGCAACTCTACTTTTTGGGATCTCTCATTACTGGAAAGTCCAGAGGCTGACCTGCCTC
 TTTGTTTTGAGCAAAGTCTGGTGTGGATTCCCTTGGGCTTTCTTTGGCTCCTGGCTCCTTGGAAGT
 TTACAGCGGTACAGATCCAGGACCAAGAGATCTCTATAACCAATTCTACCTTGCCAAGCAGGTGTT
 GTCGTGTTTCTTCTATTTTAGCAGCCATAGACCTGTCTCTTGGCCTCACAGAAGATACTGGACAAGCCA
 CAGTTCCTCCTGTGAGATATACGAATCCAATCCTCTACCTGTGCACATGGCTCCTGGTTTTGGCAGTCCA
 GCACAGCAGGCAATGGTGTGTACGAAAGAACTCTGGTTCCTGTCTCTGTCTGGATCCTCTCGGTCTTA
 TGCGGCGTATTCCAGTTTCAGACTCTGATACGAGCACTCCTGAAGGACAGCAAGTCCAACATGGCCTACT
 CCTACCTGTTCTCGTCTCCTACGGTTCCAGATTGCTCCTGATTCTTACAGCCTTTTCAGGACCAAG
 TGACTCAACACAACTCCATCAGTCACGGCTTCTTTCTGAGTAGCATTACATTTAGTTGGTATGACAGG
 ACTGTTCTGAAAGGTTACAAGCATCCACTGACACTAGAAGATGTCTGGGATATCGATGAAGGTTTTAAAA
 CAAGGTCAGTCACCAGCAAGTTTGAGGCGGCCATGACAAAGGACCTGCAGAAAGCCAGGCTTTTCA
 GAGGCGGCTGCAGAAGTCCCAGCGGAAACCTGAGGCCACACTACCGGACTGAACAAGAAGCAGAGTCAG
 AGCCAAGACGTTCTCGTCTGGAAGAAGCGAAAAAGAAGTCTGAGAAGACCACCAAGACTATCCCAAAT
 CGTGGTTGATCAAGTCTCTCTTCAAACCTTCCACGTAGTGATCCTGAAATCATTATACTGAAATTAAT
 ACATGACCTTTTGGTGTCTGAATCCTCAGCTGCTGAAGTTGCTGATCGGTTTCGTGAAGAGCTTAAC
 TCATACGTGTGGTTTGGCTATATCTGTGCAATCCTAATGTTTGTGTGACTCTCATCCAATCTTTCTGCC
 TTCAGTCTTACTTTCAACATTGTTTTGTGTGGGAATGTGCGTACGGACAACCGTCATGTCTTCGATATA
 TAAGAAGGCATTGACCCTATCTAACTTGGCTAGGAAGCAGTACACCATTGGAGAGCGGTGAAGTGTGATG
 TCTGTAGATTCCCAGAAGCTAATGGATGCGACCAACTACATGCAGTTGGTGTGGTCAAGTGTATACAGA
 TTACTTTGTCCATCTTCTCCTGTGAGAGAGTTGGGACCGTCCATCTTAGCAGGTGTTGGGGTTATGGT
 TCTCCTAATCCCAGTTAATGGAGTTCTGGCTACCAAGATCAGAAATATTCAGGTCCAAAATATGAAGAAT
 AAAGACAAACGTTTAAAAATCATGAATGAGATTCTCAGTGAATCAAGATCCTGAAATACTTTGCCTGGG



[View online »](#)

AACCTTCATTTCAAGAGCAAGTCCAGGGCATTCCGAAGAAAGAACTCAAGAACTTCTGCTGCGGTTCCGCCA
GCTGCAGAGTCTGCTGATCTTCATTTTACAGATAACTCCAATCCTGGTGTCTGTGGTCACATTTTCTGTC
TATGTCCTGGTGGATAGCGCCAATGTTTTGAATGCGGAGAAGGCATTTACCTCCATCACCCTCTTCAATA
TCCTACGCTTCCCTCTGTCCATGCTTCCCATGGTGACCTCATCGATCCTCCAGGCCAGTGTCTGTGGA
CCGGCTGGAGAGGTATTTGGGAGGAGACGATTTAGACACATCTGCCATTCGCCCGCTCAGCAATTTTGT
AAAGCTGTGAAGTTTTTCAGAGGCCTCTTTACTTGGGACCCGGACTTGGAAAGCCACAATCCAAGATGTGA
ACCTGGACATAAAGCCAGGCCAACTGGTGGCTGTGGTGGCACTGTAGGCTCTGGGAAATCCTCTTTGGT
ATCAGCCATGCTGGGAGAAATGGAAAACGTTACGGGCACATCACCATCCAGGGATCCACAGCCTATGTC
CCTCAGCAGTCCCTGGATTGAAATGGAACCATCAAAGACAACATCCTGTTTGGGTCGGAATACAATGAAA
AGAAGTACCAGCAAGTTCTCAAAGCATGCGCTCTCCTCCAGACTTGGAAATATTGCCTGGAGGAGACAT
GGCTGAGATCGGAGAGAAGGGGATAAATCTCAGTGGTGGTGTGAGAGCAGCGAGTCAAGCTGGCCAGAGCT
GCCTATCAAGATGCTGACATCTATATTCTGGACGATCCCTGTGCGGTGTGGATGCTCATGTGGGAAAAC
ACATTTTCAACAAGTTGTGGGCCCAACGGCCTGTTGGCTGGCAAGACGAGAATCTTTGTTACTCATGG
TATTCATCTCCTCCCAAGTGGATGAGATTGTAGTTCTGGGAAAGGCACCATCTTAGAGAAAGGATCC
TATCGTGACCTGTTGGACAAGAAGGGAGTGTGGCTAGGAACTGGAAGACCTTATGAAGCATTCAGGGC
CTGAAGGAGAGGCCACAGTCAATAATGACAGTGAGGCGGAAGACGACGATGATGGCTGATTCACCACAT
GGAGGAAATCCCTGAGGATGCAGCTTCTTGGCCATGAGAAGAGAAAATAGTCTTCGCCGTACACTGAGC
CGCAGCTCTAGGTCAGCAGCCGACGTGGGAAGTCCCTCAAAAACCTTGAAGATTAATAATGTGAATG
TCTTGAAGGAGAAGGAAAAGAAGTGGAAAGACAAAACCTAATTAAGAAAGAATTTGTGGAAACCGGGAA
GGTCAAGTTCTCCATCTACCTGAAGTATCTACAGGCAGTAGGGTGGTGGTCCATACTTTTTCATCATCCTT
TTCTACGATTGAATAATGTTGCTTTTATCGGCTCTAACCTCTGGCTGAGTGCTTGGACCACTGACTCTG
ACAACATGAATGGGACCAACAATTCGCTTCTCATAGGGACATGAGAATGGGGTCTTTGGAGCTCTGGG
ATTAGCACAGGTATATGTTGCTTATTTCAACTCTGTGGAGCATATATGCTTGCAGAAAATGCATCAAAA
GCTTTGCACGGGAGCTGTTAACCAACATCCTCCGGGCACCCATGAGGTTTTTTGACACAACCTCCACAG
GCCGATTGTGAACAGATTTTCTGGTGATATTTCTACTGTGGACGACTTCTCCCCAGACACTTGAAG
CTGGATGATGTGTTTCTTTGGCATCGTGGCACTTGTGCATGATCTGCATGGCCACCCAGTCTTCGCT
ATCATCATCATTCTCAGCATTCTTTATATTTCCGGTGCAGGTTTTTTATGTGGCTACTTCCCGCCAGC
TGAGACGGTTGGATTCTGTCACCAAACTCCGATCTATTCTCACTTCAAGTGCAGACTGTACAGGTTTGGC
CATTATCCGTGCCTTTGAGCACCAGCAGCGATTCTAGCTTGGAAATGAGAAGCAGATTGACATCAACCAG
AAATGTGTCTTTTCTGGATTACCTCCAACAGGTGGCTTGCAATTCGGCTGGAGCTGTTGGAAACTTGG
TCGCTCTTCTGTTCCGCTTGTGCTGGTATTTATAGAAAACCTTAACCGGGGACGTTGTGGGCTTTGT
TCTGTCCAACGCCCTCAATATCACACAAACCTTGAAGTGGCTAGTGAGGATGACGTGAGAAGCAGAGACC
AACATTGTGGCAGTTGAGCGAATAAGTGAATACATAAATGTAGAGAATGAGGCGCCCTGGGTGACTGACA
AGAGGCCCTCCGGCAGACTGGCCAGACATGGTGTGATCCAGTTTAAACAATATCAAGTGCAGTATCGGCC
GGAGCTGGATCTGGTACTGAAAGGGATCACTTGTAAATCAAGAGCGGAGAGAAGGTCCGGCTAGTGGGC
AGGACTGGGGCTGGGAAATCATCCCTCACAAACTGCCTCTTCAAGATCTTAGAGTCTGCGGGGGCCAGA
TCATCATTGATGGGATAGATGTTGCCTCCATTGGACTGCACGACCTTCGAGAGAGGCTGACCATCATTCC
CCAGGACCCCATTTTGTCTCGGGGAGTCTGAGGATGAATCTCGACCCTTCAACAAATATTAGATGAG
GAGGTTTGGAGGGCCCTGGAGTTGGCTCACCTCAGATCCTTTGTGTCTGGCCTACAGCTTGGGTTGTTAT
CCGAAGTGACAGAGGGTGGTGAACAACCTGAGCATAGGGCAGAGGCAGCTCCTATGCCTGGGACGGCTGT
GCTTCGAAAATCCAAAATCCTGGTCTGGATGAAGCCACGGCTGCAGTGGATCTCGAGACGGATAGCCTC
ATTCAGACGACCATCCGAAAGGAGTTCTCCAGTGCACGGTATCACCATCGCTCACAGGCTGCACACCA
TCATGGACAGTGACAAGATAATGGTCTAGACAACGGGAAGATTGTGAGTATGGCAGTCTGAAGAACT
GCTGTCCAACAGAGGTTCTTCTATCTGATGGCCAAGGAAGCCGGCATTGAAAATGTGAATCACACAGAG
CTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR212798 representing NM_012833
 Red=Cloning site Green=Tags(s)

```
MDKFCNSTFWDL S L L E S P E A D L P L C F E Q T V L V W I P L G F L W L L A P W Q L Y S V Y R S R T K R S S I T K F Y L A K Q V F
V F L L I L A A I D L S L A L T E D T G Q A T V P P V R Y T N P I L Y L C T W L L V L A V Q H S R Q W C V R K N S W F L S L F W I L S V L
C G V F Q F Q T L I R A L L K D S K S N M A Y S Y L F F V S Y G F Q I V L L I L T A F S G P S D S T Q T P S V T A S F L S S I T F S W Y D R
T V L K G Y K H P L T L E D V W D I D E G F K T R S V T S K F E A A M T K D L Q K A R Q A F Q R R L Q K S Q R K P E A T L H G L N K K Q S Q
S Q D V L V L E E A K K S E K T T K D Y P K S W L I K S L F K T F H V V I L K S F I L K L I H D L L V F L N P Q L L K L L I G F V K S S N
S Y W F G Y I C A I L M F A V T L I Q S F C L Q S Y F Q H C F V L G M C V R T T V M S S I Y K K A L T L S N L A R K Q Y T I G E T V N L M
S V D S Q K L M D A T N Y M Q L V W S S V I Q I T L S I F F L W R E L G P S I L A G V G V M V L L I P V N G V L A T K I R N I Q V Q N M K N
K D K R L K I M N E I L S G I K I L K Y F A W E P S F Q E V Q G I R K K E L K N L L R F G Q L Q S L L I F I L Q I T P I L V S V T F S V
Y V L V D S A N V L N A E K A F T S I T L F N I L R F P L S M L P M V T S S I L Q A S V S V D R L E R Y L G G D D L D T S A I R R V S N F D
K A V K F S E A S F T W P D L E A T I Q D V N L D I K P G Q L V A V V G T V G S G K S S L V S A M L G E M E N V H G H I T I Q G S T A Y V
P Q Q S W I Q N G T I K D N I L F G S E Y N E K K Y Q Q V L K A C A L L P D L E I L P G G D M A E I G E K G I N L S G G Q K Q R V S L A R A
A Y Q D A D I Y I L D D P L S A V D A H V G K H I F N K V V G P N G L L A G K T R I F V T H G I H F L P Q V D E I V V L G K G T I L E K G S
Y R D L L D K K G V F A R N W K T F M K H S G P E G E A T V N N D S E A E D D D D G L I P T M E E I P E D A A S L A M R R E N S L R R T L S
R S S R S S S R R G K S L K N S L K I K N V N V L K E K E K E V E G Q L I K K E F V E T G K V K F S I Y L K Y L Q A V G W W S I L F I I L
F Y G L N N V A F I G S N L W L S A W T S D S D N L N G T N N S S S H R D M R I G V F G A L G L A Q G I C L L I S T L W S I Y A C R N A S K
A L H G Q L L T N I L R A P M R F F D T T P T G R I V N R F S G D I S T V D D L L P Q T L R S W M M C F F G I A G T L V M I C M A T P V F A
I I I I P L S I L Y I S V Q V F Y V A T S R Q L R R L D S V T K S P I Y S H F S E T V T G L P I I R A F E H Q Q R F L A W N E K Q I D I N Q
K C V F S W I T S N R W L A I R L E L V G N L V V F C S A L L L V I Y R K T L T G D V V G F V L S N A L N I T Q T L N W L V R M T S E A E T
N I V A V E R I S E Y I N V E N A P W V T D K R P P A D W P R H G E I Q F N N Y Q V R Y R P E L D L V L K G I T C N I K S G E K V G V V G
R T G A G K S S L T N C L F R I L E S A G G Q I I I D G I D V A S I G L H D L R E R L T I P Q D P I L F S G S L R M N L D P F N K Y S D E
E V W R A L E L A H L R S F V S G L Q L G L L S E V T E G D N L S I G Q R Q L L C L G R A V L R K S K I L V L D E A T A A V D L E T D S L
I Q T T I R K E F S Q C T V I T I A H R L H T I M D S D K I M V L D N G K I V E Y G S P E E L L S N R G S F Y L M A K E A G I E N V N H T E
L
```

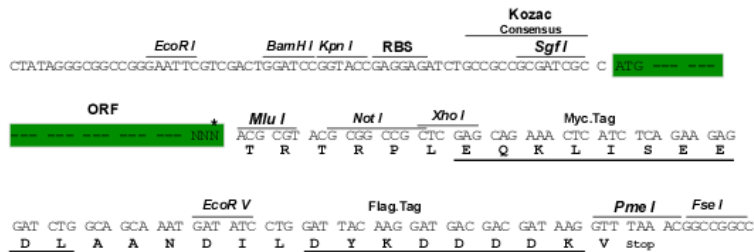
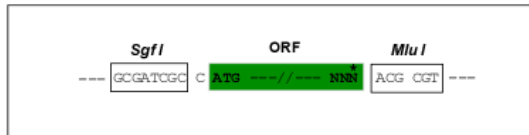
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

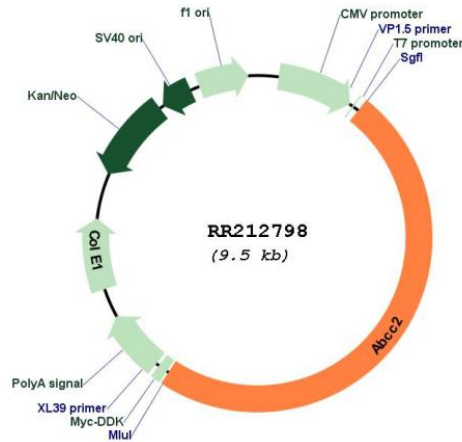
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_012833

ORF Size: 4623 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:	<u>NM_012833.2, NP_036965.1</u>
RefSeq Size:	5073 bp
RefSeq ORF:	4626 bp
Locus ID:	25303
UniProt ID:	<u>Q63120</u>
Cytogenetics:	1q54
MW:	173.4 kDa
Gene Summary:	multispecific organic anion transporter; mutation may be responsible for conjugated hyperbilirubinemia in the TR- rat, which is a model for human Dubin-Johnson syndrome [RGD, Feb 2006]