

## Product datasheet for **RR203264**

### **Abcb6 (NM\_080582) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcb6 (NM_080582) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcb6
Synonyms:	MTABC3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide  
Sequence:**

>RR203264 representing NM\_080582  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGACTGTGGCACTACTGCGAGGCCGAAGGGCCGGGGCCGGCATGGACTCAGAATGGCTTGA  
 GTCCCTGCTTCTTCTACACTCTAGTGCCCTCGACACTCATGACTTTGGGGTACTGGCCTTGGTGCCTGGT  
 TCTTCCCTGCAGGCGTCGGGAGGTGCTGCTGGCAGAGGAGCTATCTTGGGCGCTGGCCCTCGGGT  
 GCTCCCTATGCGCTGCAGCTGTCTCTGGCGATACTTCAGATGGCACTGCCCTGGCCAGTCTGGTGGCC  
 GAGTGGGCACTGCTCGGGGGTCCGCTGCCAGGTTACCTACTGCTGGCTTCTGTGCTGGAGAGTCTAGC  
 CAGTGCCTGTGGCTTGTGGCTGCTGCTGGTGGAAACGGAGCCAGGCAGGCAGAGTCTGGCAATGGGCGTC  
 TGGATGAAGTTCAGGCATAGCTTGGGTCTTCTGCTCCTCTGGACTGTGACATTTGCAGCCGAGAACTTGG  
 TCCTGGTATCTTGAACAGCCCACAGTGGTGGTGGTCCAGGCAGATCTGGCCAGCAGGTTCAATTTGG  
 CCTATGGGTCCTGCGTTATATGACCTCTGGAGGGCTATTTATCCTGGGGCTCTGGCCCCGGACTTCGC  
 CCCAGTCTTATACCCTACATGTTAATGAAGAAGACCAAGATGGAGGAAGGAACAGGGCCGCTCAACAG  
 ACCCACGATCCACTTGGAGAGACCTCGGCAGGAAGCTTCGACTGCTGAGTGGCTACTTGTGGCCTCGGGG  
 GAGTCCATCTCTGCAGCTGACTGTGCTCCTATGCATGGGCCTCATGGGTTGGACCGAGCACTCAATGTG  
 TTGGTCCCATCTTCTATAGGGACATTGTGAACCTACTGACTTCGAAGGCTCCTTGGAGCTCCCTGGCCT  
 GGACCGTTACCACCTATGTCTTCTCAAGTTCCTGCAGGGGGTGGCACTGGCAGTACAGGTTTTGTGAG  
 CAACCTTCGAACCTTCTGTGGATCCGGTGCAGCAGTTCACGTCCCAGGTGTGGAACCTCCGCTCTTTC  
 TCTCATCTGCATGAACCTCACTGCGCTGGCACCTGGCCGTCGACTGGGAGGTGCTTCGGATTGTGG  
 ACCGGGAACATCCAGTGTACAGGACTGCTCAGCTACCTGGTGTCAACATCATCCCCACCTGGCCGA  
 CATCATATTGGCATCATCTACTTCAGCATGTTCTTCAATGCCTGGTTTGGCCTCATTGTGTTCTGTGC  
 ATGAGTCTTTACCTCATCTCACTATTATGGTCACTGAGTGGAGAGCCAAGTTTCGCCGTGATATGAACA  
 CACAGGAAAATGCCACCGGGCAGCAGCAGTAGACTCTCTGCTAAACTTTGAGACGGTGAATACTACAA  
 TGCGGAGGGTTATGAGTTAGAACGCTATCGAGAGGCCATCCTCAAGTTTCAGGGTTTGGAGTGAAGTCA  
 ACGGCTTCACTGGTTTTACTGAATCAGACCCAGAACATGGTGATTGGATTGGGCTCCTTGTGCTCCT  
 TGCTTTGTGCATACTTCTGCAGCGAGCGACGGCTACAGGTTGGGACTTTGTGCTTTTGGCACTTATAT  
 CACCCAACGTACATGCCTCTCAACTGGTTCGGCACCTACTACAGAATGATCCAGACTAACTTCATTGAC  
 ATGGAGAACATGTTTGACTTGTGAAAGAGGAAACAGAGGTGAAGGACGTCCTGGAGCAGGGCCCTTC  
 GTTTTCATAAGGGCCGGGTTGAGTTGAAAATGTGCACCTCAGCTACGCTGATGGGCGGGAGACCTTACA  
 AGATGTGTCCTTCACTGTGATGCCTGGACAGACGGTGGCTCTGGTAGGCCATCTGGGCGAGGAAAGAGC  
 ACAATTTTACGCCTGCTGTTTCGCTTCTATGACATCAGCTCTGGCTGCATCCGAATAGATGGACAGGACA  
 TTTACAGGTAACCCAGATCTCTCTCCGGTCTCACATTGGAGTTGTGCCCCAGGACACTGCTCCTTCAA  
 CGACACCATTTGCCAACAATACCGCTATGGCCGTGTACAGCTGGGACAGTGAGATACAGGCTGCTGCT  
 CAGGCTGCGGGCATCCATGATGCCATCTGTCTTTCCCTGAAGGGTATGAGACACAGGTTGGGGAGCGGG  
 GTCTGAAGCTGAGTGGTGGCGAGAAGCAGCGAGTGGCCATTGCCCGCACCATCTTAAGGCTCCTGACAT  
 CATTCTGCTGGATGAGGCAACATCAGCACTGGATACATCTAATGAGAGAGCCATCCAGGCCCTCTGGCC  
 AAAGCTGCACCAACCGCACCCATCGTAGTAGCACACAGGCTCTCAACTGTGGTCAATGCTGACCAGA  
 TTCTTGTGATCAAGGATGGCTGCATCATAGAGAGAGGAAGGCACGAAGCCCTGCTATCCCGAGGTGGCGT  
 GTATGCTGAGATGTGGCAGCTGCAGCAGCAAGGACAAGAACTGTCCCTGAAGACTCT

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203264 representing NM\_080582  
Red=Cloning site Green=Tags(s)

MVTVGNyceAEGPAGPAWTQNGLSPCFFYTLVPSTLMTLGVLALVLPVPCRRREVPAGTEELSWAAGPRV  
APYALQLSLAILQMALPLASLAGRVGTARGVRLPGYLLLASVLESLASACGLWLLVVERSQARQSLAMGV  
WMKFRHSLGLLLLWTVTFAAENLVLSWNSPQWWWSRADLQQVQFGLWVLRMYTSGGLFILGLWAPGLR  
PQSYTLHVNEEDQDGGRNQGRSTDPSTWRDLGRKLRLLSGYLWPRGSPSLQLTVLLCMGLMGLDRALNV  
LVPIFYRDIVNLLTSKAPWSSLAWTVTTYVFLKFLQGGGTGSTGFVSNLRTFLWIRVQQFTSRGVLELRF  
SHLHELRLRWHLGRRTGEVLRIVDRGTSSVTGLLSYLVFNIIPTLADIIIGIIFYSMFFNAWFGLIVFLC  
MSLYLILTIMVTEWRAKFRRDMNTQENATRARA VDSLNFETVKYYNAEGYELERYREAILKFQGLEWKS  
TASLVLLNQTQNMVIGFLLAGSLLCAYFVSERRLQVGDVFLFGTYITQLYMLNWFQTYRMIQTNFID  
MENMFDLLKEETEVDKDPGAGPLRFHKGRVEFENVHFSYADGRETLQDVSFTVMPGQTVLVGPGSAGKS  
TILRLLFRFYDISSGCIRIDGQDISQVTQISLRSHIGVVPQDVLFNFTIANNIRYGRVTAGDSEIQAAA  
QAAGIHDAILSFPEGYETQVGERGLKLSGGEKQRVAIARTILKAPDIILLDEATSALDTSNERAIQASLA  
KVCTNRTTIVVAHRLSTVYNADQILVIKDGCIIERGRHEALLSRGGVYAEMWQLQQQGQETVPEDS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

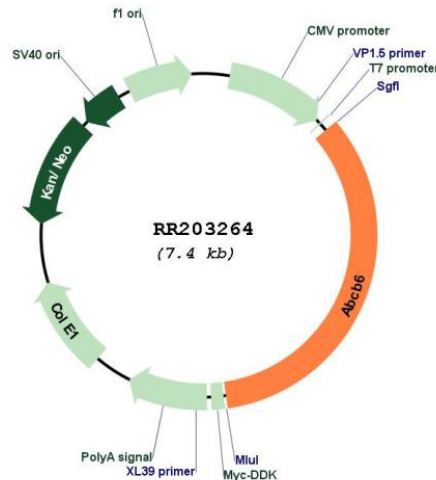
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_080582

**ORF Size:** 2508 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\\_080582.1](#), [NP\\_542149.1](#)

**RefSeq Size:** 2848 bp

**RefSeq ORF:** 2511 bp

**Locus ID:** 140669

**UniProt ID:** [O70595](#)

**Cytogenetics:** 9q33

**MW:** 93.3 kDa

**Gene Summary:** ATP-binding cassette (ABC) half-transporter that together with its dimerization partner alters the localization of toxic substances [RGD, Feb 2006]