

## Product datasheet for **RC200949**

### **ABCB6 (NM\_005689) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCB6 (NM_005689) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCB6
Synonyms:	ABC; LAN; MTABC3; PRP; umat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC200949 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGACTGTGGCAACTACTGCGAGGCCGAAGGCCCGTGGTCCGGCCTGGATGCGAGATGGCCTGA  
 GTCCCTGCTTCTTCTTACGCTCGTGCCCTCGACGCGGATGGCTCTAGGACTCTGGCCTTGGTGCCTGGC  
 TCTTCCCTGCAGACGCCGGGAGCGGCCCGCTGGTGTGATTTCGCTGTCTTGGGGGCCGGCCCTCGCATC  
 TCTCCCTACGTGCTGCAGCTGCTTCTGGCCACACTTCAGGCGGCCTGCCCTGGCCGGCCTGGTGGCC  
 GGGTGGGCACTGCCGGGGGGCCCACTGCCAAGCTATCTACTTCTGGCCTCCGTGCTGGAGAGTCTGGC  
 CGGCGCCTGTGGCTGTGGCTGTGCTGCTGGAGCGGAGCCAGGCACGGCAGCGTCTGGCAATGGGCATC  
 TGGATCAAGTTCAGGCACAGCCCTGGTCTCTGCTCCTCTGGACTGTGGCGTTTGCAGCTGAGAAGTGG  
 CCCTGGTGTCTTGAACAGCCCACAGTGGTGGTGGCAAGGCCAGACTTGGGCCAGCAGGTTCAAGTTAG  
 CCTGTGGGTGCTCGCGTATGTGGTCTCTGGAGGGCTGTTTGTCTGGGTCTCTGGCCCCGGACTTCGT  
 CCCAGTCTATACATTGCAGGTTTCATGAAGAGGACCAAGATGTGGAAAGGAGCCAGGTTTCGGTACGAG  
 CCCAACAGTCTACCTGGCGAGATTTTGGCAGGAAGCTCCGCCTCCTGAGTGGCTACCTGTGGCCTCGAGG  
 GAGTCCAGCTCTGCAGCTGGTGGTGTCTCATCTGCCTGGGGCTCATGGGTTTGAACGGGCACTCAATGTG  
 TTGGTGCCTATATTCTATAGGAACATTGTGAAGTGTGCTGACTGAGAAGGCACCTTGAAGTCTCTGGCCT  
 GGACTGTTACAGTACGTCTTCTCAAGTTCCTCCAGGGGGTGGCACTGGCAGTACAGGCTTCGTGAG  
 CAACCTGCGCACCTTCTGTGGATCCGGGTGCAGCAGTTCACGTCTCGGCGGGTGGAGTGTCTCATCTTC  
 TCCACCTGCACGAGCTCTACTGCGCTGGCACCTGGGGCGCCGACAGGGGAGGTGCTGCGGATCGCGG  
 ATCGGGGCACATCCAGTGTACAGGGCTGCTCAGTACCTGGTGTCAATGTCATCCCCACGCTGGCCGA  
 CATCATATTGGCATCATCTACTTCAGCATGTTCTTCAACGCCTGGTTTGGCCTCATTGTGTTCTGTGTC  
 ATGAGTCTTTACCTCACCTGACCATTGTGGTCACTGAGTGGAGAACCAAGTTTCTGCTGCTATGAACA  
 CACAGGAGAACGCTACCCGGGCACGAGCAGTGGACTCTCTGCTAAACTTCGAGACGGTGAAGTATTACAA  
 CGCCGAGAGTTACGAAGTGAACGCTATCGAGAGGCCATCATCAATATCAGGGTTTGGAGTGAAGTGC  
 AGCGCTTCACTGGTTTTACTAAATCAGACCCAGAACCTGGTAATTGGGCTCGGGCTCCTCGCCGGCTCCC  
 TGCTTTGCGCATACTTTGCTACTGAGCAGAAGCTACAGGTTGGGACTATGTGCTCTTTGGCACCTACAT  
 TATCCAGCTGTACATGCCCTCAATTGGTTTGGCACCTACTACAGGATGATCCAGACCAACTTCATTGAC  
 ATGGAGAACATGTTTACTTGTGAAAGAGGAGACAGAAGTGAAGGACCTTCTGGAGCAGGGCCCTTC  
 GCTTTCAGAAGGGCCGATTGAGTTTGAACGTCGACTTCAGCTATGCCGATGGGCGGGAGACTCTGCA  
 GGACGTGTCTTCACTGTGATGCCTGGACAGACTTGCCTGGTGGGCCCATCTGGGGCAGGGAAGAGC  
 ACAATTTTGCCTGCTGTTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGGGCAGGACA  
 TTTACAGGTGACCCAGGCTCTCTCCGGTCTCACATTGGAGTTGTCCCAAGACACTGCTCTTTTAA  
 TGACACCATCGCCGACAATATCCGTTACGGCCGTGTCACAGCTGGGAATGATGAGGTGGAGGCTGCTGCT  
 CAGGCTGCAGGCATCCATGATGCCATTATGGCTTCCCTGAAGGGTACAGGACACAGGTGGGCGAGCGGG  
 GACTGAAGCTGAGCGGCGGGGAGAAGCAGCGCTGCCATTGCCCGACCATCTCAAGGCTCCGGGCAT  
 CATTCTGCTGGATGAGGCAACGTCAGCGTGGATACATCTAATGAGAGGGCCATCCAGGCTTCTCTGGCC  
 AAAGTCTGTGCCAACCGCACACCATCGTAGTGGCACACAGGCTCTCAACTGTGGTCAATGCTGACCAGA  
 TCCTCGTCATCAAGGATGGCTGCATCGTGGAGAGGGGACGACAGGCTCTGTTGTCCCGAGGTGGGT  
 GTATGCTGACATGTGGCAGCTGCAGCAGGGACAGGAAGAACTCTGAAGACACTAAGCCTCAGACCATG  
 GAACGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC200949 protein sequence  
 Red=Cloning site Green=Tags(s)

MVTVGNyceAEGPVGPAWMQDGLSPCFFFTLVpSTRMALGTLALVLALPCRRRERPAGADSLSWGAGPRI  
 SPYVLQLLLATLQAALPLAGLAGRVGTARGAPLPSYLLLASVLESLAGACGLWLLVVERSQRQLAMGI  
 WIKFRHSPGLLLLWTVFAAENLALVSWNSPQWWWARADLGGQVQFSLWVLRVYVSGGLFVLGLWAPGLR  
 PQSYTLQVHEEDQDVERSQVRSAAQSTWRDFGRKLRLLSGYLWPRGSPALQLVLIICLGLMGLERALNV  
 LVPIFYRNIIVNLLTEKAPWNSLAWTVTSYVFLKFLQGGGTGSTGFVSNLRTFLWIRVQQTSTRRVELLIF  
 SHLHELRLRWHLGRRTGEVLRIDRGTSSVTGLLSYLVFNVIPTLADIIIGIIFYSMFFNAWFGLIVFLC  
 MSLYLTLTIVVTEWRTKFRAMNTQENATRARAVIDSLLNFETVKYYNAESYEVEERYEAIIKYQGLEWKS  
 SASLVLLNQTQNLVIGLGLLAGSLLCAYFVTEQKLQVGDYVLFGTYYIQLYMLNWFGTYYRMIQTNFID  
 MENMFDLLKEETEVDLPGAGPLRFQKGRIEFENVHFSYADGRETLQDVSFTVMPGQTLALVGPAGGKS  
 TILRLLFRFYDISSGIRIDGQDISQVTQASLRSHIGVVPQDVLFNFTIADNIRYGRVTAGNDEVEAAA  
 QAAGIHDAIMAFPEGYRTQVGERGLKLSGGEKQRVAIARTILKAPGIILLDEATSALDTSNERAIQASLA  
 KVCANRTTIVVAHRLSTVYNADQILVIKDGCIIVERGRHEALLSRGGVYADMWQLQQGQEETSEDTKPQTM  
 ER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

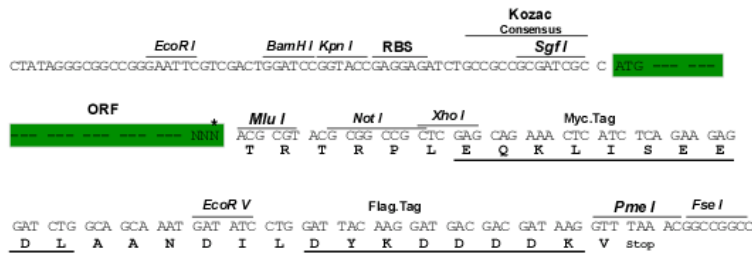
[https://cdn.origene.com/chromatograms/mk6691\\_a10.zip](https://cdn.origene.com/chromatograms/mk6691_a10.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

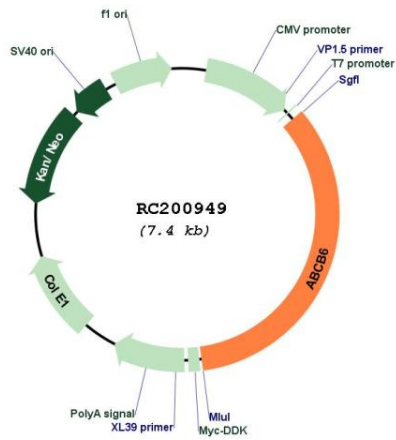
Cloning sites used for ORF Shuttling:



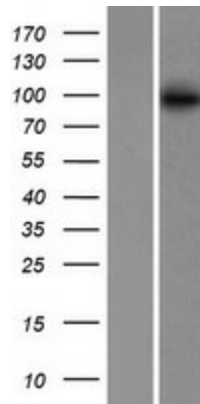
\* The last codon before the Stop codon of the ORF

<b>ACCN:</b>	NM_005689
<b>ORF Size:</b>	2526 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_005689.4</a>
<b>RefSeq Size:</b>	3021 bp
<b>RefSeq ORF:</b>	2529 bp
<b>Locus ID:</b>	10058
<b>UniProt ID:</b>	<a href="#">Q9NP58</a>
<b>Cytogenetics:</b>	2q35
<b>Domains:</b>	ABC_membrane, ABC_tran, AAA
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	ABC transporters
<b>MW:</b>	93.9 kDa
<b>Gene Summary:</b>	This gene encodes a member of the ATP-binding cassette (ABC) transporter superfamily. ABC proteins transport various molecules across extra- and intra-cellular membranes. This protein is a member of the heavy metal importer subfamily and plays a role in porphyrin transport. This gene is the molecular basis of the Langereis (Lan) blood group antigen and mutations in this gene underlie familial pseudohyperkalemia and dyschromatosis universalis hereditaria. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RC200949



Western blot validation of overexpression lysate (Cat# [LY417131]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200949 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).