

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**

ATGGTGACTGTGGCAACTACTGCGAGGCCGAAGGCCCGTGGTCCGGCCTGGATGCAGGATGGCCTGA
 GTCCCTGCTTCTTCTCACGCTCGTGCCCTCGACGCGGATGGCTCTAGGACTCTGGCCTTGGTGCCTGGC
 TCTTCCCTGCAGACGCCGGGAGCGGCCCGCTGGTCTGATTTCGCTGTCTTGGGGGCCGGCCCTCGCATC
 TCTCCCTACGTGCTGCAGCTGCTTCTGGCCACACTTCAGGCGGCCTGCCCTGGCCGGCCTGGCTGGCC
 GGGTGGGCACTGCCGGGGGGCCCACTGCCAAGCTATCTACTTCTGGCCTCCGTGCTGGAGAGTCTGGC
 CGGCGCCTGTGGCTGTGGCTGTGCTGCGTGGAGCGGAGCCAGGCACGGCAGCGTCTGGCAATGGGCATC
 TGGATCAAGTTCAGGCACAGCCCTGGTCTCCTGCTCCTCTGGACTGTGGCGTTTGCAGCTGAGAAGTGG
 CCCTGGTGTCTTGAACAGCCCACAGTGGTGGTGGGAAGGCCAGACTTGGGCCAGCAGGTTCAAGTTAG
 CCTGTGGGTGCTCGCGTATGTGGTCTCTGGAGGGCTGTTTGTCTGGGTCTCTGGCCCCGGACTTCGT
 CCCAGTCTATACATTGCAGGTTTCATGAAGAGGACCAAGATGTGGAAAGGAGCCAGGTTTCGGTACGAG
 CCCAACAGTCTACCTGGCGAGATTTTGGCAGGAAGCTCCGCCTCCTGAGTGGCTACCTGTGGCCTCGAGG
 GAGTCCAGCTCTGCAGCTGGTGGTCTCATCTGCCTGGGGCTCATGGGTTTGAACGGGCACTCAATGTG
 TTGGTGCCTATATTCTATAGGAACATTGTGAAGTCTGCTGACTGAGAAGGCACCTTGAAGTCTCTGGCCT
 GGACTGTTACAGTACGTCTTCTCAAGTTCCTCCAGGGGGTGGCACTGGCAGTACAGGCTTCGTGAG
 CAACCTGCGCACCTTCTGTGGATCCGGGTGCAGCAGTTCACGCTCGGGCGGTGGAGTCTCATCTTC
 TCCACCTGCACGAGCTCTACTGCGCTGGCACCTGGGGCGCCGACAGGGGAGGTGCTGCGGATCGCGG
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 TGCTTTGCGCATACTTTGCTACTGAGCAGAAGCTACAGGTTGGGACTATGTGCTCTTTGGCACCTACAT
 TATCCAGCTGTACATGCCCTCAATTGGTTTGGCACCTACTACAGGATGATCCAGACCAACTTCATTGAC
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 ACAATTTTGCCTGCTGTTTCGCTTCTACGACATCAGCTCTGGCTGCATCCGAATAGATGGGCAGGACA
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 GTATGCTGACATGTGGCAGCTGCAGCAGGGACAGGAAGAACTCTGAAGACACTAAGCCTCAGACCATG
 GAACGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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

MVTVGNyceAEGPVGPAWMQDGLSPCFFFTLVPSTRMALGTLALVLALPCRRRERPAGADSLSWGAGPRI
 SPYVLQLLLATLQAALPLAGLAGRVGTARGAPLPSYLLLASVLESLAGACGLWLLVVERSQRQLAMGI
 WIKFRHSPGLLLLWTVFAAENLALVSWNSPQWWWARADLQQVQFSLWVLRVYVSGGLFVLGLWAPGLR
 PQSYTLQVHEEDQDVERSQVRSAAQSTWRDFGRKLRLLSGYLWPRGSPALQLVLIICLGLMGLERLNV
 LVPIFYRNIIVNLLTEKAPWNSLAWTVTSYVFLKFLQGGGTGSTGFVSNLRTFLWIRVQFTSRRVELLIF
 SHLHELRLRWHLGRRTGEVLRIDRGTSSVTGLLSYLVFNVIPTLADIIIGIIFYSMFFNAWFLIVFLC
 MSLYLTLTIVVTEWRTKFRAMNTQENATRARAVIDSLLNFETVKYYNAESYEVEERYEAIIKYQGLEWKS
 SASLVLLNQTQNLVIGLGLLAGSLLCAYFVTEQKLQVGDYVLFGTYYIQLYMLNWFGTYYRMIQTNFID
 MENMFDLLKEETEVDLPGAGPLRFQKGRIFENVHFSYADGRETLQDVSFTVMPGQTLALVGPSTGAGKS
 TILRLLFRFYDISSGIRIDGQDISQVTQASLRSHIGVVPQDVLFNFTIADNIRYGRVTAGNDEVEAAA
 QAAGIHDAIMAFPEGYRTQVGERGLKLSGGEKQRVAIARTILKAPGIILLDEATSALDTSNERAIQASLA
 KVCANRTTIVVAHRLSTVYNADQILVIKDGCIIVERGRHEALLSRGGVYADMWQLQQGQEETSEDTPQTM
 ER

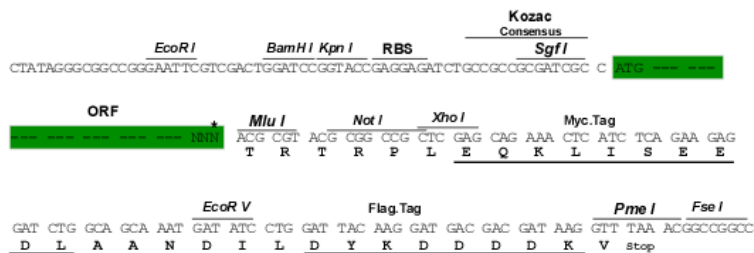
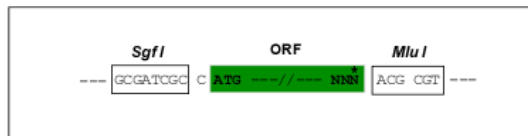
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6691_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

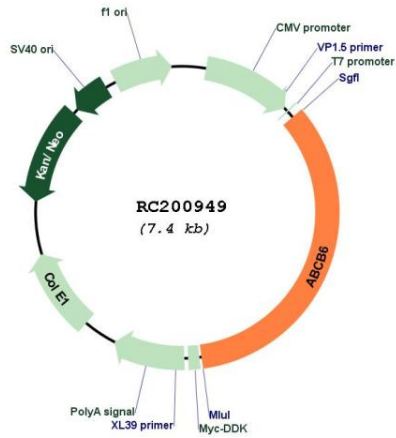
Cloning sites used for ORF Shuttling:



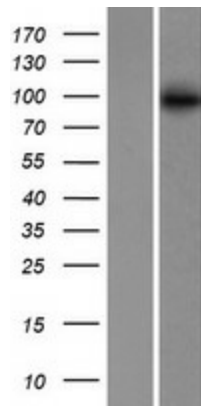
* The last codon before the Stop codon of the ORF

ACCN:	NM_005689
ORF Size:	2526 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:	<ol style="list-style-type: none">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_005689.4
RefSeq Size:	3021 bp
RefSeq ORF:	2529 bp
Locus ID:	10058
UniProt ID:	Q9NP58
Cytogenetics:	2q35
Domains:	ABC_membrane, ABC_tran, AAA
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	93.9 kDa
Gene Summary:	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]).