

Product datasheet for **RC215604**

ABCB5 (NM_178559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB5 (NM_178559) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCB5
Synonyms:	ABCB5alpha; ABCB5beta; EST422562
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215604 representing NM_178559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGATGAGAATGACATCAGAGCTTTAAATGTGCGGCATTATCGAGACCATTGGAGTGGTTAGTC
 AAGAGCCTGTTTTGTTCGGGACCACCATCAGTAACAATATCAAGTATGGACGAGATGATGTGACTGATGA
 AGAGATGGAGAGAGCAGCAAGGGAAGCAAAATGCGTATGATTTTATCATGGAGTTTCTAATAAATTTAAT
 ACATTGGTAGGGGAAAAAGGAGCTCAAATGAGTGGAGGGCAGAAACAGAGGATCGCAATTGCTCGTGCT
 TAGTTCGAAACCCCAAGATTCTGATTTTATGATGAGGCTACGTCTGCCCTGGATTCAGAAAGCAAGTCAGC
 TGTTCAAGCTGCACTGGAGAAGGCGAGCAAAAGGTCGGACTACAATCGTGGTAGCACACCGACTTTCTACT
 ATTCGAAGTGCAGATTTGATTGTGACCCTAAAGGATGGAATGCTGGCGGAGAAAGGAGCACATGCTGAAC
 TAATGGCAAAACGAGGTCTATATTACTTGTGATGTCACAGGATATTAAGAAAGCTGATGAACAGAT
 GGAGTCAATGACATATTCTACTGAAAGAAAGCAACTCACTTCTCTGCACTCTGTGAAGAGCATCAAG
 TCAGACTTCATTGACAAGGCTGAGGAATCCACCAATCTAAAGAGATAAGTCTTCTGAAGTCTCTCTAT
 TAAAAATTTAAAGTTAAACAAGCCTGAATGGCCTTTTGTGGTTCTGGGGACATTGGCTTCTGTTCTAAA
 TGGAACTGTTCCATCCAGTATTTCCATCATCTTTGCAAAAATTATAACCATGTTTGGAAATAATGATAAA
 ACCACATTAAGCATGATGCAGAAATTTATCCATGATTTTCGTCATTTTGGGTGTTATTTGCTTTGTCA
 GTTATTTTCATGCAGGGATTATTTACGGCAGAGCAGGGGAAATTTAACGATGAGATTAAGACACTTGGC
 CTTCAAAGCCATGTTATATCAGGATATTGCCTGGTTTGTGAAAAGGAAAACAGCACAGGAGGCTTGACA
 ACAATATTAGCCATAGATATAGCACAATTTCAAGGAGCAACAGGTTCCAGGATTGGCGTCTTAACACAAA
 ATGCAACTAACATGGGACTTTTCAGTTATCATTTCCTTTATATGATGGAGATGACATTCCTGATTCT
 GAGTATTGCTCCAGTACTTGCCGTGACAGGAATGATTGAAACCGCAGCAATGACTGGATTTGCCAACAAA
 GATAAGCAAGAATTAAGCATGCTGAAAGATAGCAACTGAAGCTTTGGAGAATATACGTAATATAGTGT
 CATTAACAAGGAAAAAGCCTTCGAGCAAAATGTATGAAGAGATGCTTCAGACTCAACACAGAAATACCTC
 GAAGAAAGCACAGATTATTGGAAGCTGTTATGCATTTCAGCCATGCCTTTATATTTTGCCTATGCGGCA
 GGGTTTCGATTTGGAGCCTATTTAATCAAGCTGGACGAATGACCCAGAGGGCATGTTCCATAGTTTTTA
 CTGCAATTGCATATGGAGCTATGGCCATCGGAGAAACGCTCGTTTGGCTCCTGAATATCCAAAGCCAA
 ATCGGGGGCTGCGCATCTGTTTGCCTTGTGAAAAGAAACCAATATAGACAGCCGAGTCAAGAAGGG
 AAAAAGCCAGACACATGTGAAGGAATTTAGAGTTTCGAGAAGTCTTTTCTTCTATCCATGTCGCCAG
 ATGTTTTTCATCCTCCGTGGCTTATCCCTCAGTATTGAGCGAGGAAAGACAGTAGCATTTGTGGGGAGCAG
 CGGCTGTGGGAAAAGCACTTCTGTTCAACTTCTGCAGAGACTTTATGACCCCGTGAAGGACAAGTGTCTG
 TTTGATGGTGTGGATGCAAAAGAATTGAATGTACAGTGGCTCCGTTCCCAATAGCAATCGTTTCTCAAG
 AGCCTGTGCTCTTCAACTGCAGCATTGCTGAGAACATCGCCTATGGTGACAACAGCCGTGTGGTGCCATT
 AGATGAGATCAAAGAAGCCGCAATGCAGCAAATATCCATTCTTTTATTGAAGGTCTCCCTGAGAAATAC
 AACACACAAGTTGGACTGAAAGGAGCACAGCTTCTGGCGCCAGAAACAAAGACTAGCTATTGCAAGGG
 CTCTTCTCAAAAACCCAAAATTTTATTGTTGGATGAGGCCACTTCAGCCCTCGATAATGACAGTGAGAA
 GGTGGTTCAGCATGCCCTTGATAAAGCCAGGACGGGAAGGACATGCCTAGTGGTCACTCACAGGCTCTCT
 GCAATTCAGAACGCAGATTTGATAGTGGTCTGCACAATGGAAAAGATAAAGGAACAAGGAACATCAAG
 AGCTCCTGAGAAATCGAGACATATATTTAAGTTAGTGAATGCACAGTCAGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC215604 representing NM_178559
Red=Cloning site Green=Tags(s)

MVDENDIRALNVRHYRDHIGVVSQEPVLFGTTISNNIKYGRDDVTDEEMERAAREANAYDFIMEFPNKFN
TLVGEKGAQMSSGQKQRIAIARALVRNPKILILDEATSALDSESKSAVQAALAKASKGRTTIVVAHRLST
IRSADLIVTLKDGMLAEKGAHAELMAKRGLYSLVMSQDIKKADEQMESMTYSTERKTNSLPLHSVKS
SDFIDKAEESTQSKEISLPEVSLKILKLNKPEWPFVVLGTLASVNLGTVHPVFSIIFAKIITMFGNNDK
TTLKHDAEISMI FVILGVICFVSYFMQGLFYGRAGEILTMRLRHLAFKAML YQDIAWFDEKENSTGGLT
TILAIDIAQIQGATGSRIGVLTQ NATNMGLSVIISFIYGWEMTFLILSIAPVLAVTGM IETAAMTGFANK
DKQELKHAGKIATEALENIRTIVSLTREKAFEQMYEMLQTQHRNTSKKAQIIGSCYAFSHAFIYFAYAA
GFRFGAYLIQAGRMTPEGMFIVFTAIAYGAMAIGETLVLAPEYSKAKSGAAHLFALLEKKPNIDSRSEQE
KKPDTCEGNLEFREVSFFYPCRPDVFILRGLSLSIERGKTVA FVGSSGCGKSTSVQLLQRLYDPVQGQVL
FDGVDAKELNVQWLR SQIAIVPQEPVLFNCSIAENIAYGDNSRVVPLDEIKEAANAANIHSFIEGLPEKY
NTQVGLKGAQLSGGQKQLAIARALLQPKILLLDEATSALDNDSEKVVQHALDKARTGRTCLV VTHRLS
AIQNADLIVVLHNGKIKEQGT HQELLNRNDIYFKLVNAQSVQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_178559
 ORF Size: 2436 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_178559.6](#)

RefSeq Size: 2784 bp

RefSeq ORF: 2439 bp

Locus ID: 340273

UniProt ID: [Q2M3G0](#)

Cytogenetics: 7p21.1

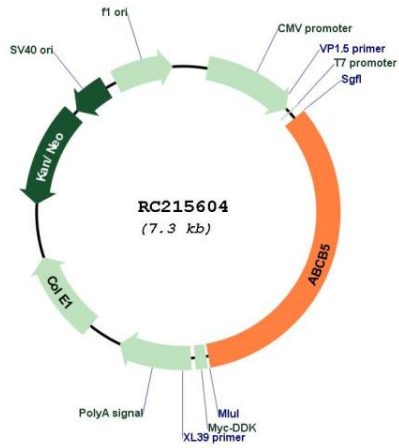
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

MW: 89.7 kDa

Gene Summary: ABCB5 belongs to the ATP-binding cassette (ABC) transporter superfamily of integral membrane proteins. These proteins participate in ATP-dependent transmembrane transport of structurally diverse molecules ranging from small ions, sugars, and peptides to more complex organic molecules (Chen et al., 2005 [PubMed 15760339]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC215604