

Product datasheet for **RC228071**

ABCB5 (NM_001163942) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ABCB5 (NM_001163942) 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)
ORF Nucleotide Sequence: >RC228071 representing NM_001163942
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGTGGATGAGAATGACATCAGAGCTTTAAATGTGCGGCATTATCGAGACCATATTGGAGTGGTTAGTC
AAGAGCCTGTTTGTTCGGGACCACCATCAGTAACAATATCAAGTATGGACGAGATGATGTGACTGATGA
AGAGATGGAGAGAGCAGCAAGGGAAGCAAATGCGTATGATTTTATCATGGAGTTTCCTAATAAATTTAAT
ACATTGGTAGGGGAAAAAGGAGCTCAAATGAGTGGAGGGCAGAAACAGAGGATCGCAATTGCTCGTGCT
TAGTTCGAAACCCCAAGATTCTGATTTTAGATGAGGCTACGTCTGCCCTGGATTGAGAAAGCAAGTCAGC
TGTTCAAGCTGCACTGGAGAAGGATACCCCAAGTATTCAATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228071 representing NM_001163942
Red=Cloning site Green=Tags(s)

MVDENDIRALNVRHYRDHIGVVSQEPVLFGTITISNNIKYGRDDVTDEEMERAAREANAYDFIMEFPNKFN
 TLVGEKGQMSGGQKQRIAIARALVRNPKILILDEATSALDSESKSAVQAALKDTPRYSF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2035_e06.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001163942

ORF Size: 393 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_001163942.2](#)

RefSeq Size: 2247 bp

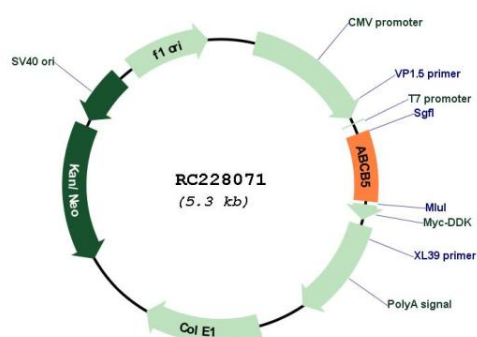
RefSeq ORF: 396 bp

Locus ID: 340273

UniProt ID: [Q2M3G0](#)

Cytogenetics:	7p21.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters
MW:	15.1 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 RC228071