

## Product datasheet for **RC234747**

### **ABCB9 (NM\_001243013) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ABCB9 (NM_001243013) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCB9
Synonyms:	EST122234; TAPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234747 representing NM\_001243013  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCGTGTGGAAGCGGTGGTGGTGACTTTGCCTTCATGAGTGTGGACATCTGCGTGACCACGGCCA  
 TCTATGTCTTCAGCCACCTGGACCGCAGCCTCCTGGAGGACATCCGCCACTTCAACATCTTTGACTCGGT  
 GCTGGATCTCTGGGCAGCCTGCCTGTACCGCAGCTGCCTGCTGCTGGGAGCCACCATTGGTGTGGCCAAG  
 AACAGTGCCTGGGGCCCCGGCGCTGCGGGCCTCGTGGTGGTGCATCACCCTCGTGTGCCTCTTCGTGG  
 GCATCTATGCCATGGTGAAGCTGCTGCTTCTCAGAGGTGCGCAGGCCCATCCGGGACCCTGGTTTTG  
 GGCCCTGTTGCTGGACGTACATTTCACTCGGCGCATCCTTCTGCTCTGGTGGCTGCTGTCCACCGTG  
 CGGCCAGGCACCCAGGCCCTGGAGCCAGGGCGGCCACCGAGGCTGAGGGCTTCCCTGGGAGCGGCCGGC  
 CACCGCCGAGCAGGCGTCTGGGGCCACGCTGCAGAAGCTGCTCTCTACACCAAGCCCGACGTGGCCTT  
 CCTCGTGGCCGCTCCTTCTTCTCATCGTGGCAGCTCTGGGAGAGACCTTCTGCCCTACTACAGGGC  
 CGCGCCATTGATGGCATCGTCATCCAGAAAAGCATGGATCAGTTCAGCACGGCTGTGTCATCGTGTGCC  
 TGCTGGCCATTGGCAGCTCATTTGCCGAGGATTCGGGGCGGCATTTTTACCCTCATATTTGCCAGACT  
 GAACATTCGCCTTCGAACTGTCTTCCGCTCACTGGTGTCCCAGGAGACAAGTTCCTTTGATGAGAAC  
 CGCACAGGGGACCTCATCTCCCGCTGACCTCGGACACCACCATGGTCAGCGACCTGGTCTCCAGAAACA  
 TCAATGTCTTCTGCGGAACACAGTCAAGGTACGGGCGTGGTGGTCTTCATGTTGAGCCTCTCATGGCA  
 GCTCTCCTTGGTACCTTCATGGGCTTCCCATCATCATGATGGTGTCCAACATCTACGGCAAGTACTAC  
 AAGAGGCTCTCAAAGAGGTCCAGAATGCCCTGGCCAGAGCGAGCAACACGGCGGAGGAGACCATCAGTG  
 CCATGAAGACTGTCCGGAGCTTCGCCAATGAGGAGGAGGAGGCAGAGGTGTACCTGCGGAAGTGCAGCA  
 GGTGTACAAGCTGAACAGGAAGGAGGCAGCTGCCTACATGTAACGTCTGGGGCAGCGGGCTCACACTG  
 CTGGTGGTCCAGGTCAGCATCCTCTACTACGGGGCCACCTTGTGTCATCTCAGGCCAGATGACCAGCGGCA  
 ACCTCATCGCCTTCATCATCTACGAGTTTGTCTGGGAGATTGTATGGAGAATGTCTCCTTCAGCCTGTC  
 CCCCAGCAAGGTGACGGCCCTGGTGGGGCCCTCGGGCAGTGGGAAGAGCTCCTGTGTCAACATCCTGGAG  
 AACTTCTACCCCTGGAGGGGGCCGGGTGCTGCTGGACGGCAAGCCCATCAGCGCCTACGACCACAAGT  
 ACTTGACCGTGTGATCTCCTGGTGGCCAGGAGCCCGTGTGTTGCGCCGCTCCATCACGGATAACAT  
 CTCCTACGGCCTGCCACTGTGCCTTTCGAGATGGTGGTGGAGGCCGCACAGAAGGCCAATGCCACGGC  
 TTCATCATGGAATCCAGGACGGCTACAGCACAGAGACAGGGGAGAAGGGCGCCAGCTGTGAGGTGGCC  
 AGAAGCAGCGGGTGGCCATGGCCCGGGCTCTGGTGCAGAACCCCAAGTCTCATCTGGATGAAGCCAC  
 CAGCGCTTTGGATGCCGAGAGCGAGTATCTGATCCAGCAGGCCATCCATGGCAACCTGCAGAAGCACAG  
 GTACTCATCATCGCGACCGGCTGAGCACCGTGGAGCACGCGCACCTCATTGTGGTGTGGACAAGGGCC  
 GCGTAGTGCAGCAGGGCACCCACCAGCAGCTGCTGGCCAGGGCGGCCTCTACGCCAAGCTGGTGCAGCG  
 GCAGATGCTGGGGCTTACGCCCGCCGAGACTTACAGCTGGCCACAACGAGCCTGTAGCCAACGGCAGT  
 CACAAGGCC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234747 representing NM\_001243013  
 Red=Cloning site Green=Tags(s)

MRLWKAVVTLAFMSVDICVTTAIYVFSHLDRSLLDIRHFNIFDSVLDLWAACLYRSCLLLGATIGVAK  
 NSALGPRRLRASWLVITLVCLFVGIYAMVKLLLFSEVRRPIRDPWFALFVWTYISLGASFLWLLSTV  
 RPGTQALEPGAATEAEGFPGSGRPPPEQASGATLQKLLSYTKPDVAFVVAASFFLIVAALGETFLPYTG  
 RAIDGIVIQKSMDFSTAVVIVCLLAIGSSFAAGIRGGIFTLIFARLNIRLRNCLFRSLVSQETSFFDEN  
 RTGDLISRLTSDTTMVSIDLVSQINIVFLRNTVKVTGVVVFMSLSWQLSLVTFMGFPIIMMVSNIYGKYY  
 KRLSKEVQNALARASNTAEETISAMKTVRSFANEESAEVYLRKLQQVYKLNKKEAAAYMYVWGSGLTL  
 LVVQVSIYYGGHLVISGQMTSGNLIAFIIYEFVLGDCMENVFSLSPGKVTALVGPSSGKSSCVNILE  
 NFYPLEGGVLLDGKPI SAYDHKYLHRVLSVSQEPVLFARSITDNI SYGLPTVPFEMVVEAAQKANAHG  
 FIMELQDGYSTETGEKGAQLSGGQKQRVAMARALVRNPPVILDEATSALDAESEYLIQQAIHGNLQKHT  
 VLIIAHLSTVEHAHLIVVLDKGRVVQQGTHQQLLAQGGLYAKLVQRQMLGLQPAADFTAGHNEPVANGS  
 HKA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001243013

**ORF Size:** 2109 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\\_001243013.2](#)

**RefSeq Size:** 3357 bp

**RefSeq ORF:** 2112 bp

**Locus ID:** 23457

**UniProt ID:** [Q9NP78](#)

**Cytogenetics:** 12q24.31

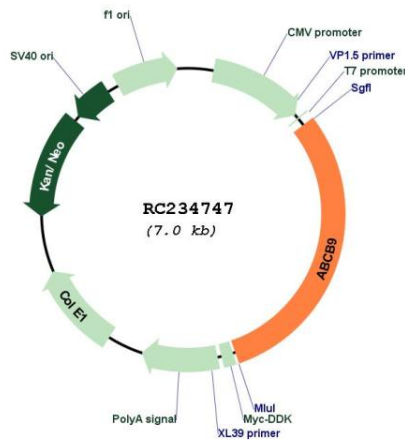
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** ABC transporters, Lysosome

**MW:** 77.9 kDa

**Gene Summary:** The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance as well as antigen presentation. This family member functions in the translocation of peptides from the cytosol into the lysosomal lumen. Alternative splicing of this gene results in distinct isoforms which are likely to have different substrate specificities. [provided by RefSeq, Jul 2011]

### Product images:



Circular map for RC234747