

Product datasheet for **RG234747**

ABCB9 (NM_001243013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB9 (NM_001243013) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ABCB9
Synonyms:	EST122234; TAPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234747 representing NM_001243013
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCGTGTGGAAGCGGTGGTGGTGACTTTGGCCTTCATGAGTGTGGACATCTGCGTGACCACGGCCA
 TCTATGTCTTCAGCCACCTGGACCGCAGCCTCCTGGAGGACATCCGCCACTTCAACATCTTTGACTCGGT
 GCTGGATCTCTGGGCAGCCTGCCTGTACCGCAGCTGCCTGCTGCTGGGAGCCACCATTGGTGTGGCCAAG
 AACAGTGCCTGGGGCCCCGGCGCTGCGGGCCTCGTGGTGGTGCATCACCCTCGTGTGCCTCTTCGTGG
 GCATCTATGCCATGGTGAAGCTGCTGCTTCTCAGAGGTGCGCAGGCCCATCCGGGACCCTGGTTTTG
 GGCCCTGTTGCTGGACGTACATTTCACTCGGCGCATCCTTCTGCTCTGGTGGCTGCTGTCCACCGTG
 CGGCCAGGCACCCAGGCCCTGGAGCCAGGGCGGCCACCGAGGCTGAGGGCTTCCCTGGGAGCGGCCGGC
 CACCGCCGAGCAGGCGTCTGGGCCACGCTGCAGAAGCTGCTCTCTACACCAAGCCCGACGTGGCCTT
 CCTCGTGGCCGCTCCTTCTTCTCATCGTGGCAGCTCTGGGAGAGACCTTCTGCCCTACTACACGGGC
 CGCGCCATTGATGGCATCGTCATCCAGAAAAGCATGGATCAGTTCAGCACGGCTGTGTCATCGTGTGCC
 TGCTGGCCATTGGCAGCTCATTTGCCGAGGATTCGGGGCGGCATTTTTACCCTCATATTTGCCAGACT
 GAACATTCGCCTTCGAACTGTCTTCCGCTCACTGGTGTCCCAGGAGACAAGCTTCTTTGATGAGAAC
 CGCACAGGGGACCTCATCTCCGCTGACCTCGGACACCACCATGGTCAGCGACCTGGTCTCCGAGAACA
 TCAATGTCTTCTGCGGAACACAGTCAAGGTACGGGCGTGGTGGTCTTCATGTTGAGCCTCTCATGGCA
 GCTCTCCTTGGTACCTTCATGGGCTTCCCATCATCATGATGGTGTCCAACATCTACGGCAAGTACTAC
 AAGAGGCTCTCCAAGAGGTCCAGAATGCCCTGGCCAGAGCGAGCAACACGGCGGAGGAGACCATCAGTG
 CCATGAAGACTGTCCGGAGCTTCGCCAATGAGGAGGAGGAGGCAGAGGTGTACCTGCGGAAGCTGCAGCA
 GGTGTACAAGCTGAACAGGAAGGAGGCAGCTGCCTACATGTAACGTCTGGGGCAGCGGGCTCACACTG
 CTGGTGGTCCAGGTGAGCATCCTCTACTACGGGGCCACCTTGTGTCATCTCAGGCCAGATGACCAGCGGCA
 ACCTCATCGCCTTCATCATCTACGAGTTTGTCTGGGAGATTGTATGGAGAATGTCTCCTTCAGCCTGTC
 CCCCAGCAAGGTGACGGCCCTGGTGGGGCCCTCGGGCAGTGGGAAGAGCTCCTGTGTCAACATCCTGGAG
 AACTTCTACCCCTGGAGGGGGCCGGGTGCTGCTGGACGGCAAGCCCATCAGCGCCTACGACCACAAGT
 ACTTGACCGTGTGATCTCCTGGTGGCCAGGAGCCCGTGTGTTCCGCCGCTCCATCACGGATAACAT
 CTCCTACGGCCTGCCACTGTGCCTTTCGAGATGGTGGTGGAGGCCGCACAGAAGGCCAATGCCACGGC
 TTCATCATGGAATCCAGGACGGCTACAGCACAGAGACAGGGGAGAAGGGCGCCAGCTGTGAGGTGGCC
 AGAAGCAGCGGGTGGCCATGGCCCGGGCTCTGGTGGGAAACCCCAAGTCTCATCTGGATGAAGCCAC
 CAGCGCTTTGGATGCCGAGAGCGAGTATCTGATCCAGCAGGCCATCCATGGCAACCTGCAGAAGCACAG
 GTACTCATCATCGCGACCGGCTGAGCACCGTGGAGCACGCGCACCTATTGTGGTGGTGGACAAGGGCC
 GCGTAGTGCAGCAGGGCACCCACCAGCAGCTGCTGGCCAGGGCGGCCTTACGCCAAGCTGGTGCAGCG
 GCAGATGCTGGGGCTTACGCCCGCCGAGACTTACAGCTGGCCACAACGAGCCTGTAGCCAACGGCAGT
 CACAAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234747 representing NM_001243013
 Red=Cloning site Green=Tags(s)

MRLWKAVVTLAFMSVDICVTTAIYVFSHLDRSLLEDIRHFNIFDSVLDLWAACLYRSCLLLGATIGVAK
 NSALGPRRLRASWLVITLVCLFVGIYAMVKLLLFSEVRRPIRDPWFALFVWTYISLGASFLWLLSTV
 RPGTQALEPGAATEAEGFPGSGRPPPEQASGATLQKLLSYTKPDVAFLVAASFLLIVAALGETFLPYTG
 RAIDGIVIQKSMQDFSTAVVIVCLLAIGSSFAAGIRGGIFTLIFARLNIRLRNCLFRSLVSQETSFFDEN
 RTGDLISRLTSDTTMVSQINIVFLRNTVKVTGVVVFMSLSWQLSLVTFMGFPIIMMVSNIYGKYY
 KRLSKEVQNALARASNTAEETISAMKTVRSFANEEEEAEVYLRKLQQVYKLNKRAAAAYMYVWGSGLTL
 LVVQVSIYYGGHLVISGQMTSGNLIAFIIEYFVLGDCMENVFSLSPGKVTALVGPSSGKSSCVNILE
 NFYPLEGGRVLLDGKPI SAYDHKYLHRVLSVSQEPVLFARSITDNI SYGLPTVPFEMVVEAAQKANAHG
 FIMELQDGYSTETGEKGAQLSGGQKQRVAMARALVRNPPVILDEATSALDAESEYLIQQAIHGKHT
 VLIIAHLSTVEHAHLIVVLDKGRVVQQGTHQQLLAQGGLYAKLVQRQMLGLQPAADFTAGHNEPVANGS
 HKA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

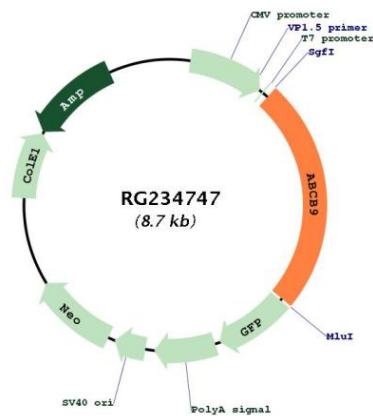
Cytogenetics: 12q24.31

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters, Lysosome

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 RG234747