

Product datasheet for **RG213150**

ABCB9 (NM_019625) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCB9 (NM_019625) 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:

>RG213150 representing NM_019625
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGCGTGTGGAAGCGGTGGTGGTGACTTTGGCCTTCATGAGTGTGGACATCTGCGTGACCACGGCCA
 TCTATGTCTTCAGCCACCTGGACCAGCCTCCTGGAGGACATCCGCCACTTCAACATCTTTGACTCGGT
 GCTGGATCTCTGGGCAGCCTGCCTGTACCCGAGCTGCCTGCTGCTGGGAGCCACCATTGGTGTGGCCAAG
 AACAGTGCCTGGGGCCCCGGCGCTGCGGGCCTCGTGGTGGTGCATCACCTCGTGTGCCTCTTCGTGG
 GCATCTATGCCATGGTGAAGCTGCTGCTTCTCAGAGGTGCGCAGGCCCATCCGGGACCCTGGTTTTG
 GGCCCTGTTGCTGGACGTACATTTCACTCGCGCATCCTTCTGCTCTGGTGGCTGCTGTCCACCGTG
 CGGCCAGGCACCCAGGCCCTGGAGCCAGGGCGGCCACCGAGGCTGAGGGCTTCCCTGGGAGCGGCCGGC
 CACCGCCGAGCAGGCGTCTGGGGCCACGCTGCAGAAGCTGCTCTCTACACCAAGCCCGACGTGGCCTT
 CCTCGTGGCCGCTCCTTCTTCTCATCGTGGCAGCTCTGGGAGAGACCTTCTGCCCTACTACACGGGC
 CGCGCCATTGATGGCATCGTCATCCAGAAAAGCATGGATCAGTTCAGCACGGCTGTGTCATCGTGTGCC
 TGCTGGCCATTGGCAGCTCATTTGCCGAGGATTCGGGGCGGCATTTTTACCCTCATATTTGCCAGACT
 GAACATTCGCCTTCGAACTGTCTTCCGCTCACTGGTGTCCCAGGAGACAAGCTTCTTTGATGAGAAC
 CGCACAGGGGACCTCATCTCCCGCTGACCTCGGACACCACCATGGTCAGCGACCTGGTCTCCAGAAACA
 TCAATGTCTTCTGCGGAACACAGTCAAGGTCACGGGCGTGGTGGTCTTCATGTTGAGCCTCTCATGGCA
 GCTCTCCTTGGTACCTTCATGGGCTTCCCATCATCATGATGGTGTCCAACATCTACGGCAAGTACTAC
 AAGAGGCTCTCCAAGAGGTCCAGAATGCCCTGGCCAGAGCGAGCAACACGGCGGAGGAGACCATCAGTG
 CCATGAAGACTGTCCGGAGCTTCGCCAATGAGGAGGAGGAGGCAGAGGTGTACCTGCGGAAGCTGCAGCA
 GGTGTACAAGCTGAACAGGAAGGAGGCAGCTGCCACATGTAACGTCGTCGGGGCAGCGGGCTCACACTG
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 TGGCCTGATGCAGGGAGTGGGGCTGCTGAGAAGGTGTTGAGTTCATCGACCGGAGCCGACCATGGTG
 CACGATGGCAGCTTGGCCCCGACCACCTGGAGGGCCGGTGGACTTTGAGAATGTGACCTTCACTACC
 GCACTCGGCCCCACCCAGGTCCTGCAGAATGTCTCCTTACGCTGTCCCCGGCAAGGTGACGGCCCT
 GGTGGGGCCCTCGGGCAGTGGGAAGAGCTCCTGTGTCAACATCCTGGAGAATTCTACCCCTGGAGGGG
 GGCCGGGTGCTGCTGGACGGCAAGCCCATCAGCGCTACGACCACAAGTACTTGCACCGTGTGATCTCCC
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 GGCTACAGCACAGAGACAGGGGAGAAGGGCGCCAGCTGTGAGGTGGCCAGAAGCAGCGGGTGGCCATGG
 CCCGGGCTCTGGTGCGAACCCCCAGTCTCATCCTGGATGAAGCCACCAGCGCTTTGGATGCCGAGAG
 CGAGTATCTGATCCAGCAGGCCATCCATGGCAACCTGCAGAAGCACACGGTACTCATCATCGGCACCGG
 CTGAGCACCGTGGAGCACGCGCACCTCATTGTGGTGTGGACAAGGGCCGCGTAGTGCAGCAGGGCACCC
 ACCAGCAGCTGCTGGCCAGGGCGGCTCTACGCCAAGCTGGTGCAGCGGCAGATGCTGGGGCTTACGCC
 CGCCGCAGACTTCACAGCTGGCCACAACGAGCCTGTAGCCAACGGCAGTCACAAGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213150 representing NM_019625
 Red=Cloning site Green=Tags(s)

MRLWKAVVVTLAFMSVDICVTTAIYVFSHLDRSLLDIRHFNIFDSVLDLWAACLYRSCLLLGATIGVAK
 NSALGPRRLRASWLVITLVCLFVGIYAMVKLLLFSEVRRPIRDPWFALFVWTYISLGASFLWLLSTV
 RPGTQALEPGAATEAEGFPGSGRPPPEQASGATLQKLLSYTKPDVAFLVAASFFLIVAALGETFLPYTG
 RAIDGIVIQKSMQDFSTAVVIVCLLAIGSSFAAGIRGGIFTLIFARLNIRLRNCLFRSLVSQETSFFDEN
 RTGDLISRLTSDTTMVSQININVFLRNTVKVTGVVVFMSLSWQLSLVTFMGFPIIMMVSNIYGKYY
 KRLSKEVQNALARASNTAEETISAMKTVRSFANEEEEAEVYLRKLQQVYKLNKRAAAAYMYVWGSGLTL
 LVVQVSIYYGGHLVISGQMTSGNLIAFIIEYFVLGDCMESVGSVYSGLMQGVGAAEKVFEFIDRQPTMV
 HDGSLAPDHLEGRVDFENVFTYRTRPHTQVLQNVSFSLSPGKVTALVGPSPGSGKSSCVNILENFYPLEG
 GRVLLDGKPI SAYDHKYLHRVISLSQEPVLFARSITDNISYGLPTVPFEMVVEAAQKANAHGFIMELQD
 GYSTETGEKGAQLSGGQKQRVAMARALVRNPPVLILDEATSALDAESEYLIQQA.IHGNLQKHTVLI.IAHR
 LSTVEHAHLIVVLDKGRVVQQGTHQQLLAQGGLYAKLVQRQMLGLQPAADF TAGHNEPVANGSHKA

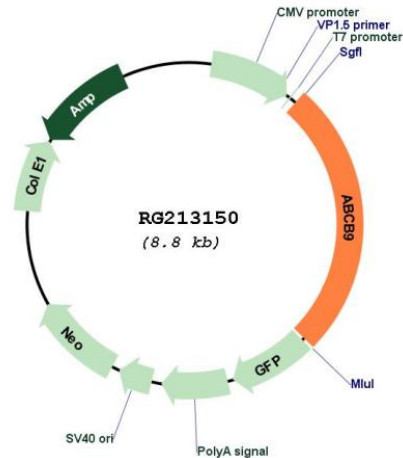
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_019625

ORF Size: 2298 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_019625.4](#)

RefSeq Size: 3506 bp

RefSeq ORF: 2301 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]