

Product datasheet for **RG209046**

ABCB10 (NM_012089) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | ABCB10 (NM_012089) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ABCB10 |
| Synonyms: | EST20237; M-ABC2; MTABC2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG209046 representing NM_012089
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGAGGCCCCCTGCCTGGCCGCTGCGGCTGCTCGAGCCACCGAGCCCTGCCAGCCAGTCCGGCTCC
 TGCCGGTAGCCTGCGTGTGGGCCGCGGCCAGCCGCTTCCCGGTCCCTATCGCCGTTCACTGGCCTGAG
 GCCGGCGCGGCTATGGGGCGCGGGGCCCGCTGCTCTGGGGCGTTGGAGCCGCGCGCCGCTGGAGGAGC
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 GTTCCCGGGCGGTCCCGAGCCGCTGCCTGGGCAGGGGACGAGGCCTGGCGGCGCGGGCCGGCGCGCCT
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 CGTACCCTGAGCGCCGGAGGCTGGCAGCTGCGGTTGGATTTCTCACGATGTCCAGTGTATCTCCATGTC
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 CTGACCCGCTCTGCCTAGGGCTCAGTGCCGTGTTTCTGTGTGGTGTGCCGCAATGCCATTCTGTCT
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 GCAGGAGGTTGCTTTCTTTGACAAGACTCGCACAGGAGAATTGATTAACCGCCTCTCATCAGACTGCA
 CTCCTGGGGCGCTCAGTACTGAAAACCTCAGATGGGCTCAGGGCCGGGGCCAGGCTTCTGTAGGCA
 TCAGTATGATGTTTTTGTCTCACCTAATCTGGCCACCTTTGTTTTGAGCGTGGTGCCTCCAGTGTCAAT
 CATTGTGTAATTTATGGGCGATATCTACGAAACTGACCAAAGTCACTCAGGATTCCTGGCACAAGCC
 ACTCAGTAGCTGAGGAACGTATTGAAATGTAAGAAGTTCGAGCTTTTGGAAAGAAATGACTGAAA
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 CTAACCCAGTGTGGCTGAGATCCAAAATTTGGACAGTGAGTCAGGAACCCATTTGTTTTCTTGTCTA
 TTGCTGAGAACATTGCTTATGGTGTGATGACCTTCTCTGTGACCGCTGAGGAAATCCAGAGAGTGGC
 TGAAGTGGCAATGCAGTGGCCTTCATCCGGAATTTCCCAAGGGTTCAACACTGTGGTTGGAGAAAAG
 GGTGTTCTCCTCTCAGGTGGGAGAAAACAGCGGATTGCGATTGCCCGTGTCTGTAAAGAAATCCAAAA
 TTCTTCTCCTAGATGAAGCAACCAGTGCCTGGATGCCGAAAATGAGTACCTTGTCAAGAAGCTCTAGA
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 GTTGCTGTTCTTGACCAAGGAAAATTAAGTGAATATGAAAACATGAAGAGCTGCTTTCAAACCAAATG
 GGATATACAGAAAATAATGAACAAACAAAGTTTTATTTTCAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209046 representing NM_012089
 Red=Cloning site Green=Tags(s)

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MRGPPAWPLRLEPPSPAEPGRLLPVACVWAAASRVPGSLSPFTGLRPARLWGAGPALLWGVAARRWRS
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PGDKGRLRPAAGLPEARLKLGLAYPERRRLAAAVGFLTMSSVISMSAPFFLGKIIDVIYTNPTVDYSDN
LTRLCLGLSAVFLCGAAANAIIRVYLMQTSQQRIVNRLRSLFSSILRQEVAFDTRTGELINRLSSDTA
LLGRSVTENLSDGLRAGAQASVGI SMMFFVSPNLATFVLSVVPVSI IAVIYGRYL RKLTKVTQDSL AQA
TQLAERIGNVRTVRAF GKEMTEIEKYASKVDHVMQLARKEAFARAGFFGATGLSGNLIVLSVLYKGLL
MGAHMTYVGE LSSFLMYAFWVGISIGGLSSFYSELMKGLGAGGRLWELLEREPKLPFNEGVLNEKSFQG
ALEFKNVHFAYPARPEVP IFQDFSL SIPSGSVTALVGP SGSGKSTVLSLLLRLYDPASGTISLDGHDIRQ
LNPVWLRSKIGTVSQEPILFSCSIAENIAYGADDPSSVT AEEIQRVAEVANAVAFIRNFPQGFNTVVGEK
GVLLSGGQKQRIAIARALLKNPKILLLDEATSALDAENEYLVQEALDRLMDGRTVLVIAHRLSTIKNAM
VAVLDQGKITEYKHEELL SKPNGIYRKL MNKQSFISA
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012089

ORF Size: 2214 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_012089.1](#), [NP_036221.1](#)

RefSeq Size: 3857 bp

RefSeq ORF: 2217 bp

Locus ID: 23456

UniProt ID: [Q9NRK6](#)

Cytogenetics: 1q42.13

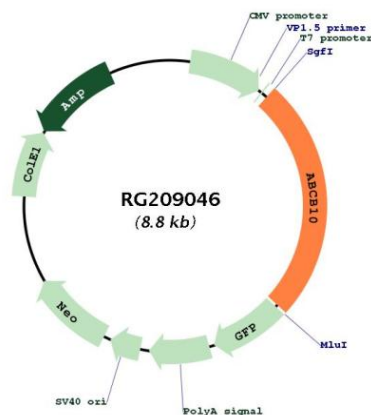
Domains: ABC_membrane, ABC_tran, AAA

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

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. The function of this mitochondrial protein is unknown. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209046