

## Product datasheet for **RG213154**

### ATP binding cassette sub family A member 3 (ABCA3) (NM\_001089) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATP binding cassette sub family A member 3 (ABCA3) (NM_001089) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATP binding cassette sub family A member 3
Synonyms:	ABC-C; ABC3; EST111653; LBM180; SMDP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG213154 representing NM_001089 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGTGCTCAGGCAGCTGGCGCTCCTCCTCTGGAAGAACTACACCCTGCAGAAGCGGAAGGTCCTGG  
TGACGGTCTGGAACCTTCTGCCATTGCTGTTTCTGGGATCCTCATCTGGCTCCGCTTGAAGATTCA  
GTCGGAAAATGTGCCAACGCCACCATCTACCCGGCCAGTCCATCCAGGAGCTGCCTCTGTTCTTCA  
TTCCCTCCGCCAGGAGACACTGGGAGCTTGCCTACATCCCTTCTCACAGTGACGCTGCCAAGACCGTCA  
CTGAGACAGTGCCGAGGGCACTTGTGATCAACATGCGAGTGCGCGGCTTTCCCTCCGAGAAGGACTTTGA  
GGACTACATTAGGTACGACAAGTCTCGTCCAGCGTGCTGGCCGCGTGGTCTTCGAGCACCCCTCAAC  
CACAGCAAGGAGCCCTGCCGCTGGCGGTGAAATATCACCTACGGTTCAGTTACACACGGAGAAATTACA  
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TTCTGGCCGTGCAGCATGCTGTGGACCGGCCATCATGGAGTACCATGCCGATGCCGCCACACGCCAGC  
TGTTCCAGAGACTGACGGTGACCATCAAGAGGTTCCCGTACCCGCGTTCATCGCAGACCCCTTCTCGT  
GGCCATCCAGTACCAGCTGCCCTGCTGCTGCTCAGCTTACCTACACCGCGCTCACCATTTGCCCGT  
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CTGGTACATGGAGGCCGTCTCCAGGGCAGTTCGGCGTGCCTCAGCCCTGGTACTTCTTCATCATGCC  
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AGCCAGATCTCGCTGGAACAGGTCTTCCTGAGCTTCGCCACCTGCAGCCGCCACCAGCAGAGGAGGGGGC  
GA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG213154 representing NM\_001089  
Red=Cloning site Green=Tags(s)

MAVLRQLALLLWKNYTLQKRKVLVTVLELFLPLLFPGLIWLRLKIQSENVPNATIYPGQSIQELPLFFT  
FPPPGDTWELAYIPSHSDAAKTVTETVRRALVINMRVGRFPSEKDFEDYIRYDNCSSSVLAADVFEHPFN  
HSKEPLPLAVKYHLRFSYTRRNWMTQTGSFFLKETEGWHTTSLFPLFPNPGPRELTPDGGGEPGYIREG  
FLAVQHAVDRAIMEYHADAATRQLFQRLTVTIKRFPYPPFIADPFLVAIQYQLPLLLLLSFTYTALTIAR  
AVVQEKERRLKEYMRMGLSSWLHWSAWFLFFLFLIIAASFMTLLFCVKVKNVAVLSRSDPSLVLAFL  
LCFAISTISFSFMVSTFFSKANMAAAFAGGFLYFFTYIPYFFVAPRYNWMTL SQKLCSCLLSNVAMAMGAQ  
LIGKFEAKGMGIQWRDLLSPVNVDDDFCFGQVLGMLLLDSVLYGLVTWYMEAVFPQFGVPQWPYFFIMP  
SYWCGKPRAVAGKEEEDSDPEKALRNEYFEAEPEDLVAGIKIKHL SKVFRVGNKDRAAVRDLNLNLYEGQ  
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AQLKGLSRQKPEEVKQMLHIIGLEDKWNRSRFLSGGMRRKLSIGIALIAGSKVLILDEPTSGMDAISR  
RAIWDLLQRKSDRTIVLTTHFMEADLLGDRIAIMAKGELQCCGSSLFLKQKYGAGYHMTLVKEPHCNP  
EDISQLVHHHVPNATLESSAGAELSFILPRESTRHFEGFLFAKLEKKQKELGIASFASITMEEVFLRVG  
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SERAVQAKHVQFVSGVHVASFWSALLWDLISFLIPSLLLL VVFKAFDVRAFTRDGHMADTLLLLLLYGW  
AIIPLMYLMNFFF LGAATAYTRLTIFNILSGIATFLMVTIMRIPAVKLEELSKTLDHVFLVLPNHCLGMA  
VSSFYENYETRRYCTSSEVAAHYCKKYNIQYQENFYAWSAPGVGRFVASMAASGCAYLILLFLIETNLLQ  
RLRGILCALRRRRTLTELYTRMPVLPEDQDVADERTRILAPSDSLLHTPLIIKELSKVYEQRVPLAVD  
RLSLAVQKGEFCGLLGFNGAGKTTTFKMLTGEESL TSGDAFVGGHRISSDVGKVRQRI GYCPQFDALLDH  
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PSTGM DPVARRLLWDTVARARESGKAIITSHSMEECEALCTRLAIMVQGQFKCLGSPQHLKSKFGSGYS  
LRAKVQSEGQAELEEFKAFVDLTFPGSVLEDEHQGMVHYHL PGRDLSWAKVFGILEKAKEKYGVDDYSV  
SQISLEQVFLSFAHLQPPTAEAGR

TRTRPLE - GFP Tag - V

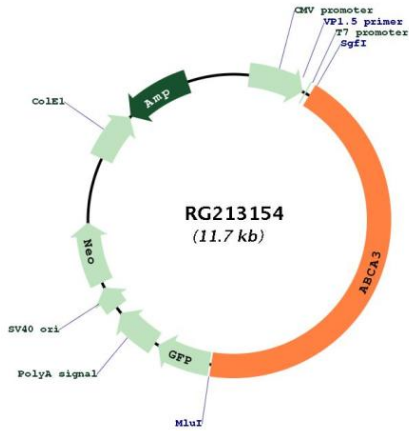
**Restriction Sites:**

Sgfl-Mlul



<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001089.1</a> , <a href="#">NP_001080.1</a>
<b>RefSeq Size:</b>	6491 bp
<b>RefSeq ORF:</b>	5115 bp
<b>Locus ID:</b>	21
<b>UniProt ID:</b>	<a href="#">Q99758</a>
<b>Cytogenetics:</b>	16p13.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	ABC transporters
<b>Gene Summary:</b>	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 intracellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the ABC1 subfamily. Members of the ABC1 subfamily comprise the only major ABC subfamily found exclusively in multicellular eukaryotes. The full transporter encoded by this gene may be involved in development of resistance to xenobiotics and engulfment during programmed cell death. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG213154