

Product datasheet for **RC218776**

ABCG5 (NM_022436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ABCG5 (NM_022436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ABCG5
Synonyms:	STSL; STSL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC218776 representing NM_022436
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGTGACCTCTCATCTTTGACCCCCGGAGGGTCCATGGGTCTCCAAGTAAACAGAGGCTCCCAGAGCT
 CCCTGGAGGGGGCTCCTGCCACCGCCCCGGAGCCTCACAGCCTGGGCATCCTCCATGCCTCCTACAGCGT
 CAGCCACCGCGTGAGGCCCTGGTGGGACATCACATCTTGCCGGCAGCAGTGGACCAGGCAGATCCTCAAA
 GATGTCTCCTTGTACGTGGAGAGCGGGCAGATCATGTGCATCCTAGGAAGCTCAGGCTCCGGGAAAACCA
 CGCTGTGAGACGCCATGTCGGGAGGCTGGGGCGCGGGGACCTTCTGGGGAGGTGTATGTGAACGG
 CCGGGCGCTGCGCCGGGAGCAGTTCAGGACTGCTTCTCTACGTCTGCAGAGCGACACCCTGTGAGC
 AGCCTCACCGTGCAGGAGACGCTGCACTACACCGCGTCTGGCCATCCGCCGCGCAATCCCGGCTCCT
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 GGCTTACATCCTGAGGTTGCCGATTTGGATATTTTTCTGCTGCTCTTGGCCCCCACTTAATTGGTG
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 ATTCCAGCTCTTGTATCCTAGGAATAGTTGTTTTCAAATAAGGGATCATCTCATTAGCAGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218776 representing NM_022436
 Red=Cloning site Green=Tags(s)

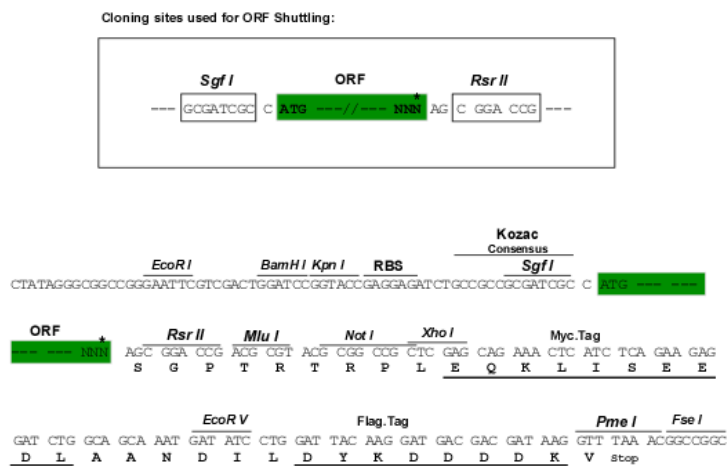
MGDLSSLTPGGSMGLQVNRGSQSSLEGAPATAPEPHSLGILHASYSVSHRVRPWWDITSCRQQWTRQILK
 DVSLYVESGQIMCILGSSGSGKTTLLDAMSGRLGRAGTFLGEVYVNGRALRREQFDQCFSYVLQSDTLLS
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 LDFFNDGYPCEHSNPFDFYMDLTSVDTQSKEREIETSKRVQMIESAYKKS AICHKTLKNIERMKHLKT
 LPMVPFKTKDSPGVF SKLGVLLRRVTRNLVRNKLAVITRLLQNLIMGLFLLFFVLRVRSNVLKGAIQDRV
 GLLYQFVGATPYTGMLNAVNLFPVLRVSDQESQDGLYQKQWMLLAYALHVL PFSVVATMIFSSVCYWTL
 GLHPEVARFGYFSAALLAPHLIGEFLLVLLGI VQNPNI VNSV VALLSIAGVLVSGGFLRNIQEMPFPK
 IISYFTFQKYCSEILVVNEFYGLNFTCGSSNSVTTNPMCAFTQGIQFIEKTCPGATSRFTMNFLILYSF
 IPALVILGIVVFKIRDHLISR

SGP TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_022436

ORF Size: 1953 bp

OTI Disclaimer: 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 custsupport@origene.com 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. [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_022436.3](#)

RefSeq Size: 2740 bp

RefSeq ORF: 1956 bp

Locus ID: 64240

UniProt ID: [Q9H222](#)

Cytogenetics: 2p21

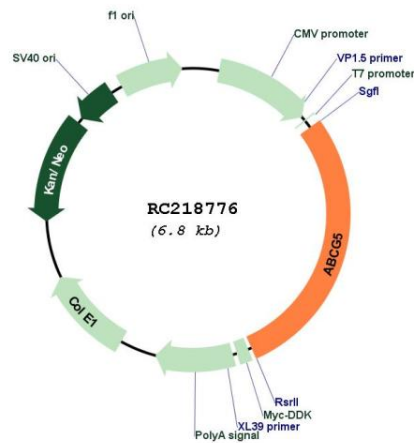
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: ABC transporters

MW: 72.5 kDa

Gene Summary:

The 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 White subfamily. The protein encoded by this gene functions as a half-transporter to limit intestinal absorption and promote biliary excretion of sterols. It is expressed in a tissue-specific manner in the liver, colon, and intestine. This gene is tandemly arrayed on chromosome 2, in a head-to-head orientation with family member ABCG8. Mutations in this gene may contribute to sterol accumulation and atherosclerosis, and have been observed in patients with sitosterolemia. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RC218776