

## Product datasheet for **RR210407**

### **Abcg8 (NM\_130414) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcg8 (NM_130414) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcg8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RR210407 representing NM\_130414  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGAGAAGACCAAAGAGGAGACCCAGCTGTGGAACGGGACTGTACTCCAGGATGCTTCAAGCCTCC  
 AGGACAGCGTGTCTCCTCTGAAAGTGACAACAGCCTCTACTTCACCTACAGTGGTCAGTCCAACACTCT  
 GGAGGTACAGATCTCACCTACCAGGTGGACATGGCCTCTCAGGTGCCTTGGTTTGGAGCAGCTGGCTCAG  
 TTCAAGTTACCGTGGAGGTCTCGCGGCAGCCAGGACTCCTGGGATCTGGGCATCCGAAATCTGAGCTTCA  
 AAGTGAGGAGTGGACAGATGCTGGCTATCATAGGGAGCGCAGGCTGCGGGAGAGCCACATTACTCGACGT  
 TATCACAGGCAGAGACCATGGTGGCAAGATGAAATCAGGACAAATCTGGATAAACGGGCAACCCAGCAGC  
 CCTCAGCTGATACAGAAGTGTGTGCACATGTGCGCCAGCAAGACCAGCTGCTCCCAATCTGACTGTCA  
 GAGAGACCCTGACTTTCATCGCCAGATCGCCTGCCAAGACCTTCTCTCAGGCCAGCGAGACAAACG  
 GGTGGAAGACGTGATTGCGGAGCTGCGGCTGCGGCAGTGCGCCAACACCCGCGTGGGCAACACATACGTA  
 CGCGGGGTGTCCGGGGGCGAGCGCCGAAGAGTGAGCATCGGGGTGCAGCTCCTGTGGAACCCAGGAATCC  
 TCATCCTGGATGAACCCACTTCCGGCCTCGACAGCTTCACCGCTCACAACCTGGTGAAGAATTTGTCCCG  
 CCTGGCCAAAGGCAACAGGCTGGTGTCTCATCTCCCTCCACCAGCCTCGCTCTGACATCTTCAGGCTATTT  
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 TTACATCAATTGGCTACCTTGTCTCGCTACAGCAACCTGTGACTTCTACGTGGACTTGACGAGCAT  
 TGACAGGCGCAGCAAAGAACAGGAGGTGGCCACCATGGAGAAGGCTCGATTACTTGACGCTTGTTCCTA  
 GAAAAAGTGCAAGGCTTTGACGACTTTCTGTGAAAGCTGAGGCAAAGAGTCTCGACACAGGCACCTATG  
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 GCAGAAGCCTGCCTGATGTCTCTCATCATTGGCTTCTTTACTACGGCCACGCAGACAAGCCGCTCTCCT  
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 TATTTCTTTGCCAAGTCTCGGTGAGCTGCCAGAGCACTGTGCCTATGTCATCATCTATGGGATGCCCA  
 TCTACTGGCTGACCAACCTGCGGCCAGGGCCTGAGCTCTTCTCCTGCACCTCATGCTTCTGTGGCTGGT  
 GGTGTTCTGCTGCAGGACCATGGCCCTGGCCGCTCTGCCATGCTGCCACCTTCCACATGTCCTCCTTC  
 TGCTGCAACGCTCTTACAACCTCTTACCTTACGGCTGGCTTTCATGATAAACTTGAACAACCTGTGGA  
 TAGTACCTGCATGGATTTCCAAGATGTCGTTCTCCGGTGGTGTCTCTCAGGGCTGATGCAGATTAGTT  
 TAATGGACACATTTACACCACGCAGATCGGCAACCTCACCTTCTCCGTCCCGGAGACGGATGGTCACT  
 GCCATGGACCTGAACTCACATCCTCTTTATGCGATCTACCTCATCGTCATTGGCATCAGCTGTGGCTTCC  
 TGTCCTGTATTATCTGTCCTTGAAGTTCATCAAACAGAAGTCAATTCAAGATTGG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR210407 representing NM\_130414  
Red=Cloning site Green=Tags(s)

```
MAEKTKEETQLWNGTVLQDASSLQDSVFSSES DNSLYFTYSGQSNLEVRDLTYQVDMASQVPWFELAQ
FKLPWRSRGSQDSWDLGIRNLSFKVRSQMLAII GSAGCGRATLLDVITGRDHGGKMKSGQI WINGQPST
PQLIQKVAHVRRQDQLLPNLTVRETLTFIAQMRLPKTF SQAQRDKRVEDVIAELRLRQCANTRVGNTYV
RGVSGGERRRVSIGVQLLWNPGLILDEPTSGLDSFTAHLVRTL SRLAKGNRLVLI SLHQPRSDIFRLF
DLVLLMTSGTPIYLGVAQHMVQYFTSIGYPCPRYSNPADFYVDLTSIDRRSKEQEVATMEKARLLAALFL
EKVQGFDDFLWKA EAKSLDTGTYAVSQTLTQDTNCGTAAELPGMIQQFTTLIRRQISNDFRDLPTLFIHG
AEACLMSLIIGFLYYGHADKPLSFMDMAALLFMIGALIPFNVILDV VSKCHSERSLLYEELEDGLYTAGP
YFFAKVLGELPEHCAYVIIYGMPYIWLNL RPPGPELFLHFLLWL VVFCRTMALAASAMLP TFHMSSSF
CCNALYNSFYLTAGFMINLNNLWIVPAWISKMSFLRWCF SGLMQIQFNHGIYTTQIGNLTF SVPGDAMVT
AMDLSHPLYAIYLIVIGISCGFLSLYYLSLKF IKQKSIQDW
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_130414

**ORF Size:** 2016 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\\_130414.2](#), [NP\\_569098.2](#)

**RefSeq Size:** 4829 bp

**RefSeq ORF:** 2019 bp

**Locus ID:** 155192

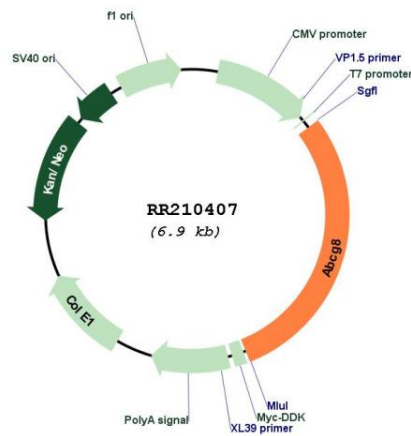
**UniProt ID:** [P58428](#)

**Cytogenetics:** 6q12

**MW:** 75.9 kDa

**Gene Summary:** ATP-binding cassette (ABC) transporter that regulates sterol absorption and excretion; mutation causes sitosterolemia [RGD, Feb 2006]

### Product images:



Circular map for RR210407