

## Product datasheet for **RR211165**

### **Abcb7 (NM\_212518) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcb7 (NM_212518) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcb7
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR211165 representing NM\_212518  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCTGCTCGGATACATTCTTGGCGCTGGGCAGCCGCGCGGTTCGTTTCGAAAAGCACAAAGCATT  
 CGGCAGTTCTGACCCGGTCTCTAGTCTCCATCTGCGGCTCAGGCCTGCGGTGGAGTTCGTACCAGAGCGG  
 CGCGTCAGGAAGCGCTCGGCTGTCCAGACTACAGAATCATTAAAGAAATCTACACAGCAGAGATGGGAA  
 AAAAACAACTCAAGACAGTTACTAGATGCTTCAAAGGTTCTTCAGGCATGGCCATTGATAGAAAAGAGAA  
 CATGTTGGCATGGGCACGCAGGAGGAGGACTCCACACAGACCCAAAAGAAGGGTTAAAGGATGTTGATAC  
 TAGAAAAATCATTAAAGCCATGCTTTCTATGTGTGGCCAAAGACAGGCCTGATCTGCGAGCCAGAGTT  
 GCCATTTCCCTGGGATTTCTGGGTGGTCAAAGGCCATGAATATTGTGGTTCCTTTCATGTTAAATATG  
 CTGTAGACAGCCTCAACCAGATGTGGGAAACATGCTGAACCTGAGTGATGCACCAAATACAGTTGCAAC  
 CATGGCAACAGCAGTTCTGATTGGCTATGGTGTATCAAGAGCCGGGGCTGCCTTTTTCAATGAAGTCCGA  
 AATGCAGTATTTGGCAAAGTAGCACAAAATTCATCCGAAGAATAGCCAAAATGTATTTCTCCATCTTC  
 ACAACTTGGATCTGGGTTTCCATCTGAGCAGACAGACAGGAGCCTTATCTAAGGCTATTGACAGAGGGAC  
 AAGGGCATTAGTTTTGTCTCAGTGCTTAGTATTTAATCTTCTCCCTATTGTGTTTGAGATGACGCTT  
 GTCAGTAGTGTTTTGATTACAAATGTGGGGCCAGTTTGCAATTGGTAACCCTGGGAACACTTGGTGCAT  
 ATACAGCATTACAGTTGCAGTTACACGGTGGAGAAGTATTTAGAATAGAAAAGAACAAAGCTGATAA  
 CGATGCAGGGAACGCTGCTATTGACTCACTGCTGAATTTGAAACTGTGAAGTATTTTAAACATGAAAAA  
 TATGAAGCACAAAGATATGATGGATTCTGAAGACATATGAGACTGCTTCATTGAAAAGTACCTCTACTC  
 TGGCTATGCTGAATTTTGGCCAAAGTCTATTTTCAGTGTGGATTAACAGCTATCATGGTCTTGGCCAG  
 TCAGGGAATTGTGGCAGGTGCCCTTACTGTTGGAGATCTAGTAATGGTGAATGGACTGCTTTTTCAACTT  
 TCATTACCCCTTAACTTCTTGGAACTGTATATAGAGAGACACGCAAGCACTCATAGATATGAATACCT  
 TGTTTACTCTGCTCAAGGTAGACACGCGGATTAAGACAAAGCGATGGCATCTCCCTTCAAATAACACC  
 ACAGACAGCCACGGTGGCCTTTGATAATGTGCATTTTGTGATACATTGAAGGACAGAAAAGTCTTAGCGGA  
 GTATCTTTTGAAGTCCCTGCAGGAAAGAAAGTGGCCATTGTAGGAGGTAGTGGGTGAGGAAAAAGCACGA  
 TAGTGAGGCTGCTGTTTCGCTTCTATGAGCCTCAAAGGGTAGCATTACCTTGTGCTCAAATATTCA  
 AGATGTGAGCCTGAAAAGTCTTCGGCGTGCAGTGGGAGTAGTACCTCAGGATGCTGCTCTTCCATAAT  
 ACTATCTACTACAACCTTTATATGGAACATCAATGCGTCACCAGAGGAAGTATATGCAGTCGCAAAAT  
 TGGCTGGTCTTTCATGATGCAATTTCTCGAATGCCACATGGATATGACACAAAGTAGGAGAACGAGGACT  
 CAAGTTATCAGGAGGAGAAAAGCAGAGGGTAGCGATTGCAAGAGCCATTTTGAAGGATCCCCAGTTATT  
 CTCTATGATGAAGCTACTTCATCATTAGATTCCGATTACTGAAGAGACTATTCTTGGTGCCATGAGGGATG  
 TGGTGAAGCACAGAACTTCTATTTTCATCGCACATAGATTGTCAACAGTGGTTGATGCAGATGAAATCAT  
 TGTCTGAGCCAGGAAAAGTAGCTGAACGTGGTACCCACTATGGTCTGCTTGTAACTCTAGCAGTATC  
 TATTCAGAGATGTGGCATAACACAGACACCCGCATACAGAACCATGATAACCTTGGATGGGATGCAAGA  
 AAGAGAGTCTCTAAAGAGGAGGAGAGAAAAGCTCCAAGAAGAGATTGTCAACAGCGTGAAGGCTG  
 TGGAAATTGCTCCTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211165 representing NM\_212518  
 Red=Cloning site Green=Tags(s)

MALLAIHSWRWAAAAVAFEKHKHSAVL TRSLVSI CGSGLRWSSYQSGASGSARLSQTTESLRNSTQQRWE  
 KNNSRQLLDASKVLQAWPLIEKRTCWHGHAGGGLHTDPKEGLKDVDTRKIIKAMLSYVWPKDRPDLRARV  
 AISLGFLGGAKAMNIVVPMFKYAVDSL NQMSGNMLNLSDAPNTVATMATAVLIGYVSRAGAAFFNEVR  
 NAVFGKVAQNSIRRIAKNVFLHLHNLDLGFHL SRQTGALSKAIDRGTRGISFVLSALVFNLLPIVFEMTL  
 VSSVLYYKCGAQFALVTLGLGAYTAFTVAVTRWRTRFRRIEMNKADNDAGNAAIDSLNLETVKYFNNEK  
 YEAQRYDGF LKTYETASLKSTSTLAMLNFGQSAIFSVGLTAIMVLASQGI VAGALTVGDLVMVNGLLFQL  
 SLPLNFLTGYRETRQALIDMNTLFTLLKVDTRIKDKAMASPLQITPQTATVAFDNVHFYEIEGQKVL SG  
 VSFEVPAGKKVAIVGGSGSGKSTIVRLLFRFYEPQKGS IYLAGQNIQDVSLESLRRAVGVVQDAVL FHN  
 TIYYNLLYGNINASPEEVYAVAKLAGLHDAILRMPHGYDTQVGERGLKLSGGEKQQRVAIARAILKDPVVI  
 LYDEATSSLD SITEETILGAMRDVVKHRTSIFIAHRLSTVVD ADEIIVLSQGVKVAERGTHYGLLANSSSI  
 YSEMWHTQSTRIQNHDNLGWD AKKESLSKEEERKKLQEEIVNSVKGCNCSC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

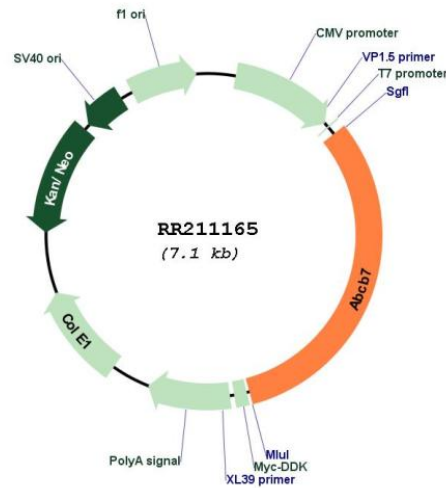
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_212518

**ORF Size:** 2256 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\\_212518.1](#), [NP\\_997683.1](#)

**RefSeq Size:** 2368 bp

**RefSeq ORF:** 2259 bp

Locus ID: 302395

UniProt ID: [Q704E8](#)

Cytogenetics: Xq22

MW: 82.6 kDa

**Gene Summary:** mouse homolog plays a role in heme biosynthesis in erythroid cells; regulates expression of both the mitochondrial iron-sulfur-containing protein ferrochelatase and the cytosolic iron-sulfur containing protein thioredoxin [RGD, Feb 2006]