

## Product datasheet for **RR214337**

### **Abcf1 (NM\_001109883) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Abcf1 (NM_001109883) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcf1
Synonyms:	Abc50
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR214337 representing NM\_001109883  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAAGGTTCCCAAGCAGCAGCCGCCCGAGCCGAGTGGATCGGGGACGGCGAAGGCACGAGCCCCG  
 CGGACAAAGTAGTGAAGAAAGGCCAAAAAGACAAGAAGACCAAAAAGACGTTCTTTGAGGAACTGGCAGT  
 GGAAGACAAGCAAGCCGGGGAAGAGGAGAACTGCAGAAGGAGAAGGAGCAGCAGCAGCAGCAGCAGCA  
 CAGAAGAAAAAGCGAGACACCAGGAAAGGTCGTCGGAAGAAGGATGTGGATGATGATGATGATGGTATG  
 AGAGAGTGCTCATGGAGCGCCTTAAGCAGCTGTCTGTGCCAGCCAGTGTAGGAAAGATGAGGTACCTGT  
 CCCCCTGCCCGAGGACGGAAGAAGGCAAAAGGGCGGAAATGTTTTGAAGCCCTGATTCAGGATGAAAGT  
 GAGGAGGAAAAAGAGGAGGAAGAAAAGCCTGTTCTCAAGCCTGCCAAGCCAGAGAAGAATCGCATCA  
 ATAAAGCCGTGGCTGAGGAGCCTCCTGGCTCCGAAATAAAAAGGAAAGGAGGAGAAATCGAAAGGAA  
 AGCCAAGAATAAACCGTCTGCTACAGACAGTGAAGGGGAAGATGATGAGGACATGACTAAAGAAAAGGAG  
 CCTCCCAGGCCAGGGAAGGACAAAGACAAAAGGGAGCTGAGCAGGGTTCAGAGGAAGAGAAAGAAGAGA  
 AGGAGGGGGAGGTGAAGGCGAATGATCCCTATGCCACCTTAGCAAAAAGGAAAAGAAAAGCTGAAGAA  
 ACAGATGGATTATGAACGCCAGGTGGAATCATTAAAGGCAGCTAATGCTGCAGAAAATGACTTCTCTGTG  
 TCCCAGGCAGAGGTGCTTCCCAGCAGGCAATGTTAGAAAATGCATCTGCATTAAGTTGAAAAAGTTCA  
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 GCTGGTGGGGCCCAACGGCAAGGGCAAGACCACACTTCTGAAGCACATTGCCAACCGTGCCTGAGTATC  
 CCCCTAACATTGATGTCTGCTGTGCGAGCAGGAGGTGGTGGCTGATGAAACACCAGCCGTGCAAGCTG  
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 GGGGGATGATACTGCCGCTGAGAAAAGTATATGAGGAAGTGCAGGACTACTGGGGCAGCAGCT  
 GCAGAGGCCAAGGCACGGCGGATCCTGGCTGGCTTGGGCTTTGACCCTGAGATGCAGAATCGGCCACAC  
 AGAAGTCTCTGGGGTTGGCGAATGCGTGTCTCCCTGGCCAGGGCACTGTTTATGGAACCCACACTGCT  
 GATGCTGGACGAGCCTACCAATCACCTGGACCTCAATGCCGTCATCTGGCTCAATAACTACCTTCAGGGC  
 TGGAGGAAGACTGCTGATCGTCTCCCACGACCAGGGCTTTCTGGATGATGCTGCACCGATATCATCC  
 ACCTGGACTCAGCGGCTCCATTACTACAGGGCAATTACATGACCTTCAAGAAGATGTACCAGCAGAA  
 GCAGAAGGAGCTGCTGAAGCAGTACGAGAAACAGGAGAAGAAGCTGAAGGAGCTGAAGGCTGGGGGCAAG  
 TCCACCAAGCAAGCGGAAAAGCAAAACAAGGAAGTCTGACTCGAAAACAGCAGAAATGCCGAAGGAAAA  
 ACCAGGATGAGGAGTCTCAGGATCCCCCTGAGCTTCTGAAGCGCCCCAGGGAGTACACTGTGCGATTAC  
 CTTCCCAGACCCCCACCTCTCAGCCCACCTGTCTGGGGCTGCATGGTGTGACGTTTGGCTACGAGGGG  
 CAGAAGCCACTCTTAAGAACCTGGATTTCCGGCATCGACATGGACTCCCGAATTTGCATTGTGGTCCCA  
 ATGGTGTGGGGAAGACACACTACTCCTGTTGCTGACTGGCAAGCTGACACCGACCAACGGGAAATGAG  
 GAAGAACCATCGGCTGAAAATCGGCTTCTTTAACCAGCAGTATGCAGAGCAGCTGCACATGGAGGAGACG  
 CCCACCGAGTACCTGCAGCGGGGCTTCAACCTGCCCTATCAGGATGCCCGGAAGTCTTGGGCCGCTTCG  
 GCCTGGAGAGCCACGCCACACCATCCAGATCTGCAAACCTCTCGGGCGGGCAGAAAGCCCGAGTTGTGT  
 TGCGGAGCTGGCCTGTGGGAGCCTGATGTCCTCATCTTGGATGAACCAACCAATAACTTGGACATAGAG  
 TCCATCGATGCCCTGGGAGAGGCCATCAACGAGTACAAGGGAGCTGTGATCGTTGTGAGCCATGATGCAC  
 GCCTCATCACAGAAACCAACTGCCAGTTGTGGGTGCTGGAGGAGCAGAGTGTGAGTCAAATTTGATGGTGA  
 CTTTGTGACTACAAGCGAGAGGTGTTGGAGGCCCTGGGTGAAGTCAAGTCAAGCCGACCTCGGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR214337 representing NM\_001109883  
 Red=Cloning site Green=Tags(s)

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MPKGPKQQPEPEWIGDGEGTSPADKVVKKGKKDKTKKTFEELAVEDKQAGEEEKLQKEKEQQQQQQQ
QKKKRDRTRKGRKKDVDDDDGDERVLMERLKQLSVPASDEEDEVPPVPRGRKKAKGGNVFEALIQDES
EEEEEEEEKPVLPKAPKPEKNRINKAVAEPPGLRNKKGKEEKSKGKAKNKPSATDSEGEDDEDMTKEKE
PPRPGKDKKGGAEQGSSEEEKEKEGEVKANDPYAHL SKKEKKLKKQMDYERQVESLKAANAENDFSV
SQAEVSSRQAMLENASDIKLEKFSISAHGKELFVNADLYIVAGRRYGLVGPNGKGTTLTKHIANRALSI
PPNIDVLLCEQEVVADETPAVQAVLRADTKRLRLLLEEKRLQGQLEQGDDTAAEKLEKVYEELRATGAAA
AEAKARRILAGLGFDPENRPTQKFSGGWRMRVSLARALFMEPTLLMLDEPTNHLDLNAVIWLNYYLQG
WRKTLLIVSHDQGFDDVCTDI IHLDTQRLHYYRGNMTFKKMYQQKQKELLKQYEKQEKLLKELKAGGK
STKQAEKQTKVELTRKQKQKRRKNQDEESQDPPELLKRPREYTVRFTFPDPPPLSPPVLGLHGVTFGYEG
QKPLFKNLDFGIDMSRIVGPNVGVKSTLLLLTGKLTPTNGEMRKNHRLKIGFFNQYAEQLHMEET
PTEYLQGFNLQDARKCLGRFGLSHAHTIQICKLSSGGQKARVVF AELACREPDVILDEPTNNDIE
SIDALGEAINEYKGAIVVSHDARLITETNCQLWVVEEQSVSQIDGDFDDYKREVLEALGEVMVNRPRD
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

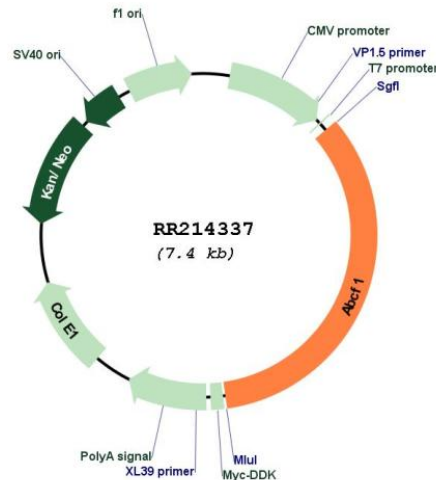
**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


**ACCN:** NM\_001109883

**ORF Size:** 2517 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\\_001109883.2](#), [NP\\_001103353.1](#)

**RefSeq Size:** 3092 bp

**RefSeq ORF:** 2520 bp

**Locus ID:** 85493

**UniProt ID:** [Q6MG08](#)

**Cytogenetics:** 20p12

**MW:** 95.3 kDa

**Gene Summary:** ATP-binding cassette (ABC) protein family member that associates with eIF2 and ribosomes to facilitate mRNA translation [RGD, Feb 2006]