

Product datasheet for **RR201836**

Abcb9 (NM_022238) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Abcb9 (NM_022238) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Abcb9
Synonyms:	Tapl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR201836 representing NM_022238
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCTGTGGAAGCGGTAGTGGTGACGCTGGCCTTCGTGAGCATGGACGTCGGCGTGACCACGGCCA
 TCTATGCCTTCAGCCACCTGGATCGCAGCCTGCTGGAGGACATCCGACACTTTAACATCTTCGACTCGGT
 GCTGGACCTCTGGGCTGCCTGCCTGTACCGCAGCTGCCTGCTGCTGGGGCTACCATCGGTGTGGCCAAG
 AACAGCGCTCTGGGGCCACGGCGCTGCGGGCCTCGTGGCTCGTCATCACCTCGTGTGCCTCTTTGTGG
 GCATCTATGCCATGGCCAACTGCTACTTCTCAGAGGTGCGCAGGCCATCCGGGACCATGGTTCTG
 GGGCTCTTCGTATGGACCTACATCTCGCTGGCTGCCTCCTTCTGCTGTGGGGCTGCTGGCCACCGTG
 CGGCCGGACGGAGGCCCTGGAGCCGGGAACGAGGGCTCCACGGTGAGGGTGGGGCCCTGCTGAGC
 AGGCATCAGGGGCCACGCTGCAGAAGCTGCTGTCTACACAAAGCCTGATGTGCCCTTCTAGTAGCTGC
 CTCTTTCTTCTCATCGTAGCGCTCTGGGAGAGACCTTCTGCCCTACTACACTGGCCGGGCCATCGAC
 AGCATCGTCATCCAGAAAAGCATGGACCAGTTCACCACGGCCGTGTCGTGCTGCTGCCTGCTGGCCATCG
 GCAGCTCATTGGCCGAGGTATTCGGGGCGGCATTTTCACCTCGTATTTGCCAGACTGAACATTCGCCCT
 TCGCAACTGTCTTCCGCTCCCTGGTGTACAGGAGACGAGTTCTTTGACGAGAATCGCACAGGGGAC
 CTCATCTCCCGCTCACCTCTGACACCACCATGGTCAGCGACCTGGTCTCCAGAACATCAACATCTTCC
 TGAGGAACACGGTCAAGGTACGGGGCGTGGTGGTCTTCATGTTACGCCTCTCCTGGCAGCTCTCCCTGGT
 CACCTTCATGGGCTTCCCATCATGATGGTGTCCAACATCTACGGCAAGTACTACAAGAGGCTCTCC
 AAGGAGTCCAGAGTCCCTGGCCAGAGCCAGCACAGCCGAGGAGACCATCAGCGCCATGAAGACGG
 TCCGACGCTTTGCCAATGAGGAAGAGGAGGCAGAGGTGTTCTCGGGAAGCTTCAGCAGGTCTACAAGCT
 GAACAGGAAGGAGGCCGACCTACATGTCTAGCTCTGGGGCAGTGGGCTCACACTCCTGGTGGTCCAG
 GTCAGTATCCTCTACTACGGGGCCACCTCGTCATCTCGGGCAGATGAGCAGCGCAACCTCATCGCT
 TCATCATCTATGAGTTTGTCTGGGAGACTGCATGGAGTCCGTGGGCTCCGTCTATAGCGCCTGATGCA
 GGGAGTGGGGCTGCTGAGAAGGTGTTGAGTTCATTGACCGGCAGCCAACCATGGTGCATGACGGAAGA
 TTGGCCCTGACCATCTCGAGGGCAGGGTGGACTTTGAGAATGTAACCTTACCTACCGCACTCGGCCCC
 ACACACAGGTCTACAGAATGTCTCTTACGCCTGTCCCAGGCAAGGTGACGGCTCTGGTGGGGCCCTC
 GGGCAGCGAAAGAGCTCCTGTGTGAACATCCTGGAGAATTCTACCCTCTGCAGGGCGGCCGGTGTG
 TTGGACGGCAGCCATCGGCGCTATGACCACAAGTACCTGCACCGGTGATCTACTGGTAAGCCAGG
 AGCCTGTGCTGTTGCGCCGCTCCATCACAGACAACATCTCTACGGCCTGCCTACCGTGCCTTCGAGAT
 GGTGGTGGAGGCTGCACAGAAGGCAATGCTCACGGCTTCATCATGGAGCTGCAGGACGGATACAGCACA
 GAGACCGGGAAAAGGGAGCCAGCTGTGAGGTGGCCAGAAGCAGCGGGTGGCCATGGCAGTGCCTAG
 TGCGGAACCTCTGTGCTCATCTGGACGAAGCCACAGTGCCTGGACGCAGAGAGTGAATACCTGAT
 TCAGCAGGCCATCCACGGCAACCTGCAGAGACACCGGTGCTGATCATCGCACACCGGCTGAGTACTGTA
 GAGCGGGCGCACCTCATCGTGGTGTAGACAAGGGCCGTGTTGACAGCAGGGTACACACCAGCAGCTGT
 TGGCACAGGGCGGCTCTATGCCAAGCTGGTGCAGCGTCAGATGCTGGGGCTCGAGCACCCCTTGGACTA
 CACGGCTGGCCACAAGGAGCCACCCAGCAACACTGAACACAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201836 representing NM_022238
 Red=Cloning site Green=Tags(s)

MRLWKAVVTLAFVSMVDVGTTAIYAFSHLDRSLLEDIRHFNIFDSVLDLWAACLYRSCLLLGATIGVAK
 NSALGPRRLRASWLITLVCLFVGIYAMAKLLLFSEVRRPIRDPWFALFVWTYISLAASFLLWGLLATV
 RPDAALEPGNEGFHGEQGAPAEQASGATLQKLLSYTKPDVAFVVAASFLLIVAALGETFLPYTGRAID
 SIVIYKSMQDQFTTAVVVVCLLAIGSSLAAGIRGGIFTLVFARLNIRLRNCLFRSLVVSQETSFFDENRTGD
 LISRLTSDTTMVSDDLVSQINIFLRNTVKVTGVVVMFSLSWQLSLVTFMGFPIIMMVSNIYGKYYKRLS
 KEVQSALARASTTAEETISAMKTVRSFANEEEEAEVFLRKLQVYKLNREAAAAMYSYVWVSGSLTLLVVQ
 VSILYYGGHLVISGQMSSGNLIAFIIYEFVLGDCMESVGSVYSGLMQGVGAAEKVFEFIDRQPTMVHDGR
 LAPDHLEGRVDFENVFTFYRTRPHTQVLQNVFSLSPGKVTALVGPSSGKSSCVNILENFYPLQGGRVL
 LDGEPIGAYDCHKYLHRVISLSVQEPVLFARSITDNISYGLPTVPFEMVVEAAQKANAHGFIMELQDGYST
 ETGEKGAQLSGGQKQRVAMARALVRNPPVLIIDEATSALDAESEYLIQQAIHGNLQRHTVLIIAHRLSTV
 ERAHLIVVLDKGRVVQQGTHQQLLAQGGLYAKLVQRQMLGLEHPLDYTAGHKEPPSNTTEHKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_022238

ORF Size: 2286 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_022238.1](#), [NP_071574.1](#)

RefSeq Size: 3303 bp

RefSeq ORF: 2289 bp

Locus ID: 63886

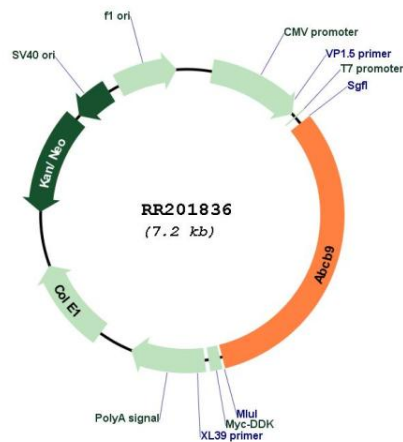
UniProt ID: [Q9QYJ4](#)

Cytogenetics: 12q15

MW: 84 kDa

Gene Summary: ATP-dependent low-affinity peptide transporter which translocates a broad spectrum of peptides from the cytosol to the lysosomal lumen. Displays a broad peptide length specificity from 6-mer up to at least 59-mer peptides with an optimum of 23-mers. Favors positively charged, aromatic or hydrophobic residues in the N- and C-terminal positions whereas negatively charged residues as well as asparagine and methionine are not favored (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR201836