

Product datasheet for **RN201263**

Coq8b (NM_001012065) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coq8b (NM_001012065) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Coq8b
Synonyms:	Adck4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201263 representing NM_001012065
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGTGGCTGGAGCTAGGAGCTATGCTGCGCAGCAGCTGTGGACCGCTGGGACGGCTGTTGCTGTCCT
GTGCGGGGGCCCTGAGACTTAGGCCCACTGGTGGGGCCATGTAGGGATTGTTGGCCAAAGGGTTCA
TCAAGACCAGCCCGAAGAGGCCTAACTGAAGATGAAATTCGTAGGGCCCGGAGGCCAGGCTCAGGAAG
GCACCCCGGCCAGCTGAGTATCGCTCTCGTGAACGCAAGGTGCCTCCCGCATCAGTCGCTTGG
CCAGCTTTGGGGGCTGGCTGTGGGCTTGGGCCTGGGAGCACTGGCCGAGGTGACCAAGAAGTCCCTGCC
AGGTGGAAGTCTGCAGCATGAGGGCTCCAGTCTTTCTTACCGAGGCCAATGCTGAGAGGATCGTACAG
ACCTTATGTACAGTCCGGGAGCTGCCCTCAAGATCGGCCAAATGCTCAGCATCCAGGACAACAGCCTCA
TCAGCCCCAGCTTCAGCGAGTCTTCGAGAGGGTCCGGCAGAGTCTGACTTTATGCCCCGTGGCAGAT
GATGAAAGTTCTAGAAGAGGAGCTAGGCAAGGACTGGCAGGACAAGGTGGCTCCCTGGAGGAGTGCC
TTTGCTGCTGCCATCGGGCAGGTACACCAAGCGTCTGAAGGACGGGACTGAGGTGGCTGTGAAGA
TCCAGTACCCAGGTGTTGCCGAGAGCATCCAGAGTGCAGTGCAGAACCTGCTGGCCCTGCTCAAGATGAG
TGTGGGACTACCAGAGGGCTGTTGCTGAGCAGAGCCTGCAGACCTTGCAGCAAGAGCTGGCTTGGAA
TGTGACTACCGCAGAGAAGCCGCTGTGCCAGACCTTCAAGAAGCTCTTGGCTGATGACCCCTTCTCC
GAGTACCAGCTGTGGTAGAGGAGTTATGCACCACACGGGTGCTGGGCATGGAGCTGGCTGGGGGAATCCC
TCTAGACCAGTGCCAGGGCCTGAGCCAGGACATCCGGAATCAGATTTGCTCCAGCTCTGAGGCTGTGT
CTGCGGGAGCTGTTTGAGTTCAGATTCATGCAAACAGATCCCAACTGGGCCAACTTCTGTATGATGCCT
CCAGCCACAAGGTGACTCTACTGGACTTTGGTGAAGCCGGCCCTTGGAACAGAGTTCACGGACCATTA
CATTGAGGTGGTGAAGGCTGCAGCAGATGGGGACAGAGATCGAGTCTCCAGAAAATCCAGGACCTCAAA
TTCTTACAGGCTTTGAAACCAAGGCATTCTCTGACGCCACGTCGAGGCAAGTATGATCCTTGGGAGC
CCTTGTGCTTCAAGGCTCCTATGACTTCGGTGTGGAGAGACTGCTCGCCGAATACAGGGCCTCATCCC
AGTGTGCTTCCGGCACCAGCTTCCGCCACCGCCTGAGGAGACCTATGCTCTACACCGCAAGCTAGCTGGG
GCTTTCTTAGCCTGTGCCGCTCCACGCCACATCGCTGCCGGGACCTTCCAAGATACCTACCACC
GCTACTGGCCAGTCGCCAGACATTGCCACTGCCAGCAGCTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001012065

Insert Size: 1587 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001012065.1](#), [NP_001012065.1](#)

RefSeq Size: 2145 bp

RefSeq ORF: 1587 bp

Locus ID: 308453

UniProt ID: [Q6AY19](#)

Cytogenetics: 1q21

Gene Summary: Atypical kinase involved in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration. Its substrate specificity is unclear: does not show any protein kinase activity. Probably acts as a small molecule kinase, possibly a lipid kinase that phosphorylates a prenyl lipid in the ubiquinone biosynthesis pathway. Required for podocyte migration.[UniProtKB/Swiss-Prot Function]