

Product datasheet for **RR201263**

Coq8b (NM_001012065) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR201263 representing NM_001012065
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGCTGGAGCTAGGAGCTATGCTGCGCAGCAGCTGTGGACCGCTGGGAGGGCTGTTGCTGTCCTT
 GTGCGGGGGCCCTGAGACTTAGGCCCACTGGTGGGGCCATGTAGGGATTGTTGGCCAAAGGGTTCA
 TCAAGACCAGCCCGAAGAGGCCTAACTGAAGATGAAATTCGTAGGGCCCGGAGGCCAGGCTCAGGAAG
 GCACCCCGGCCAGCTGAGTGATCGCTCTCGTGAACGCAAGGTGCCTCCCGCATCAGTCGCTTGG
 CCAGCTTTGGGGGCTGGCTGTGGGCTTGGGCCTGGGAGCACTGGCCGAGGTGACCAAGAAGTCCCTGCC
 AGGTGGAAGTCTGCAGCATGAGGGCTCCAGTCTTTCTTACCGAGGCCAATGCTGAGAGGATCGTACAG
 ACCTTATGTACAGTCCGGGAGCTGCCCTCAAGATCGGCCAAATGCTCAGCATCCAGGACAACAGCCTCA
 TCAGCCCCAGCTTCAGCGAGTCTTCGAGAGGGTCCGGCAGAGTCTGACTTTATGCCCCGTGGCAGAT
 GATGAAAGTTCTAGAAGAGGAGCTAGGCAAGGACTGGCAGACAAGGTGGCTCCCTGGAGGAGTGCCC
 TTTGCTGCTGCCTCCATCGGGCAGGTACACCAAGCGTCTGAAGGACGGGACTGAGGTGGCTGTGAAGA
 TCCAGTACCCAGGTGTTGCCGAGAGCATCCAGAGTGCAGTGCAGAACCTGCTGGCCCTGCTCAAGATGAG
 TGTGGGACTACCAGAGGGCTGTTTGTGAGCAGAGCCTGCAGACCTTGCAGCAAGAGCTGGCTTGGGAA
 TGTGACTACCGCAGAGAAGCCGCTGTGCCAGACCTTCAAGAAGCTCTTGGCTGATGACCCCTTCTCC
 GAGTACCAGCTGTGGTAGAGGATTATGCACCACACGGGTGCTGGGCATGGAGCTGGCTGGGGGAATCCC
 TCTAGACCAGTCCAGGGCTGAGCCAGGACATCCGGAATCAGATTTGCTCCAGCTCCTGAGGCTGTGT
 CTGCGGGAGCTGTTTGTGATTGAGTTCAGATTCATGCAACAGATCCCACTGGCCAACCTCCTGTATGATGCCT
 CCAGCCACAAGGTGACTCTACTGGACTTTGGTGAAGCCGGCCCTTGGAACAGAGTTCACGGACCATTA
 CATTGAGGTGGTGAAGGCTGCAGCAGATGGGGACAGAGATCGAGTTCTCCAGAAAATCCAGGACCTCAAA
 TTCTTACAGGCTTTGAAACCAAGGCATTCTCTGACGCCACGTCGAGGAGTGTGATCCTTGGGAGC
 CCTTGTGCTTCAAGGCTCCTATGACTTCGGTGTGGAGAGACTGCTCGCCGAATACAGGGCCTCATCCC
 AGTGTGCTTCCGACCCGGCTTCCGCCACCGCCTGAGGAGACCTATGCTCTACCCGCAAGCTAGCTGGG
 GCTTTCTAGCCTGTGCCGCTCTCCAGCCACATCGCTGCCGGGACCTTCCAAGATACCTACCACC
 GCTACTGGCCAGTCGCCAGACATTGCCACTGCCAGCAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201263 representing NM_001012065
 Red=Cloning site Green=Tags(s)

MWLELGAMLR TTCGPLGRAVRLPCAGALRLRPHWWGPCRDCLAQRVHQDQPGRGLTEDEIRRAREARLRK
 APRPQLSDRSRERKVPASRISRLASFGGLAVLGLGALAEVTKKSLPGGSLQHEGSSPFLTEANAERIVQ
 TLCTVRGAALKIGQMLSIQDNSLISPQLQRVFERVRSADFMPRWQMMKVLEELGKDWQDKVASLEEVP
 FAAASIGQVHQVLDKGTVEAVKIQYPGVAESIQSDVQNLALLKMSVGLPEGLFAEQSLQTLQDELAW
 CDYRREAACAQTFKLLADDPFFRVPVVEELCTTRVLGMELAGGIPLDQCQGLSQDIRNQICFQLRLC
 LRELFEFRMQTDPNWNFLYDASSHKVTLDFGASRAFTEFTDHYIEVVKAAADGDRDRVLQKSQDLK
 FLTGFKAFSDAHVEAVMILGEPFAASGSYDFGAGETARRIQGLIPVLLRHRLRPPPEETYALHRKLAG
 AFLACARLHAHIACRDLFQDTYHRYWASRQTLPLPAAS

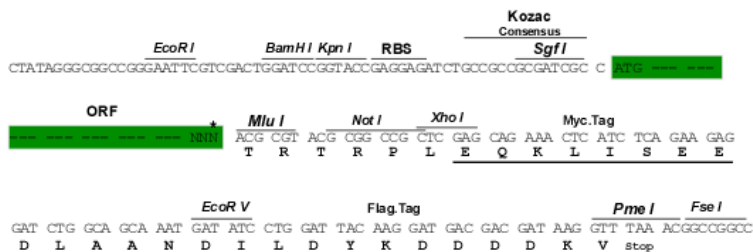
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

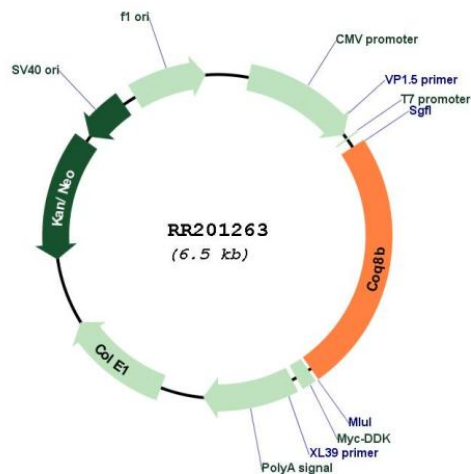
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001012065
ORF Size:	1584 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:	<ol style="list-style-type: none">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
MW:	58.9 kDa
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]