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Product datasheet for RN205258

Coq8a (NM_001013185) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coq8a (NM_001013185) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Coq8a
Synonyms:	Adck3; Cabc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>RN205258 representing NM_001013185
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCTATGTTGGGGGATGCCATCATGGTGGCCAAAGGCCTTGCCAAGCTGACCCAGGCAGCTGTGG
AAACTCACCTGCAGAACCTGGGCCTTGGTGGGGAGCTCATCCTGGCAGCCAGGGCCCTGCAGTCTACAGC
TGTGGAGCAGATCAGCATGGTCTTTGGAAAGGTGCAGGGTCAGGATAAGCATGAAGATTCATATGCCACT
GAGAACTTCGAAGATCTGGAAGCCGAAGTTCAGTTCTCAACACCACAGGCAGCTGGAAGCTCCCCAGATT
TCTCCACAGCCTCCTCCCTGGACCAGCCACTGTCTTCATCCCTGGGTCATGCCCACAGGGAGGGCCCAGC
TCCTGCCTATGTTTCCAGTGGACCTTTCAGGGAAGCAGGGCTCTCTGGCCAGGCTACCTCTCCTCTGGGC
AGAGTCAATGGAAGGCTCTTTGTAGATTGTAGAGACTTGTTCTTGGCCAACAGCATCCAGCGAAGATTCT
TCCACCAGGACCAGGCCCCTGTGGGAGGCCTCACCGCTGAAGACATTGAAAAGGCCCGTCAGGCCAAGGC
TCGCCCAGAGAGCAAGCCACACAAGCAGATGCTCAGTGAGCGGGCTCGGGAGCGGAAGGTGCCAGTTACC
CGGATTGGGCGGTTGGCCAACTTTGGAGGGCTGGCTGTAGGTCTGGGCTTTGGGGCTTTGGCTGAGGTTG
CCAAGAAGAGTCTGCGTTCTGAGAACTCCACAGGGAAGAAAGCTGTGCTGGATTCTAGCCCCTTCCTGTC
AGAGGCGAATGCAGAGCGCATTGTGAGTACATTGTGCAAGGTGCGTGGGGCCGCACTGAAGCTGGGCCAG
ATGCTGAGCATCCAGGATGATGCCTTCATCAACCCTCACCTGGCCAAGATCTTTGAGCGGGTGAGGCAGA
GCGCTGACTTCATGCCACTGAAACAGATGACGAAAACTCTCAACAATGACCTGGGCCCCCATTGGAGGGA
CAAGCTGGAGTACTTTGAAGAGCGGCCCTTTGCGGCTGCCTCCATAGGGCAGGTGCACCTGGCCCGTTTG
AAGGGTGGCCGTGAGGTGGCCATGAAGATTCAGTACCCTGGTGTGGCCCAGAGCATTAACAGTGACGTCA
ACAACCTCATGGCTGTGCTGAACATGAGTAACATGCTTCCAGAAGGCCTGTTCCCAGAGCACCTGATTGA
TGTGCTGAGGCGGGAGCTTACCCTTGAGTGTGACTACCAGCGGGAGGCTGCCTATGCCAAGAAGTTCAGG
GAGCTGCTGAAGGACCACCCCTTCTTCTATGTGCCTGAGATTGTGGACGAGCTGTGCAGCCCCCATGTGC
TGACCACAGAGCTGATAACAGGCTTCCCCCTGGACCAGGCAGAAGGGCTGAGCCAGGAAGTGCGGAATGA
GATCTGCTACAACATTTTGGTGCTGTGCCTGAGGGAGCTGTTTGAGTTCCATGTCATGCAGACTGACCCC
AACTGGTCCAATTTCTTTTATGACCCTCAGCAGCACAAGGTGGCTCTCCTGGACTTTGGGGCAACTCGAG
AATATGACCGATCCTTTACTGACCTCTACATTCAGGTCATCCGGGCTGCTGCTGACCAGGACAGGGAGGC
AGTGCTGAAGAAGTCCATAGAGATGAAGTTCCTCACTGGTTATGAGGTCAAGGCCATGGAGGATGCCCAC
CTGGATGCCATTCTCATCCTGGGGGAGGCCTTTGCTTCGGAAGAGCCCTTTGACTTCGGCACGCAGAGCA
CCACTGAGAAGATCCATAACCTGATCCCCATCATGCTGAAGCACCGCCTCATCCCGCCTCCTGAGGAGAC
CTACTCTCTGCACCGCAAGATGGGGGGCTCTTTCCTCATCTGTTCCAAGCTGAAGGCCTGCTTCCCCTGC
AAGGCCATGTTTGAGGAAGCGTACAGTAACTACTGCAGGATGAAGTCTGGGCTGCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001013185

Insert Size: 1950 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_001013185.1, NP_001013203.1
RefSeq Size:	2515 bp
RefSeq ORF:	1950 bp
Locus ID:	360887
UniProt ID:	Q5BJQ0
Cytogenetics:	13q26
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, as suggested by its ability to bind coenzyme Q lipid intermediates. Shows an unusual selectivity for binding ADP over ATP.[UniProtKB/Swiss-Prot Function]