

Product datasheet for **RR214638**

Cyb5r3 (NM_138877) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyb5r3 (NM_138877) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyb5r3
Synonyms:	Dia1; Nadhcb5; RNNADHCB5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214638 representing NM_138877 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGGCCAGCTGAGCACGTTGAGCCGAGTGGTACTCTCCCCGGTCTGGTTCGCTACAGCCTTTCA
TGAAGCTGTTTCAGCGCTCCTCACGGCCATCACCTCGAGAACCCGACATCAAGTACCCTCTGCGGCT
CATCGACAAGGAGATTATCAGCCAGGACTCGGCGCTTCGGATTGCACTCCCTCGCCCCAGCACATC
CTGGGCCTTCTATCGGCCAGCACATCTACCTCTCCACCAGGATCGATGGCAACTTGGTCATTGTCCTCT
ACACCCCTGTGTCTAGTGATGATGACAAGGGCTTTGTGGACTTGGTGGTCAAGGTTTACTTCAAGGACAC
GCATCCCAAGTTTCCAGCTGGAGGGAAAATGTCTCAGTACCTGGAAAACATGAATATTGGAGACACCATT
GAATCCGGGGCCCAATGGGCTACTGGTCTACCAGGGCAAAGGGAAAGTTCGCCATCCGTGCAGACAAGA
AGTCCAACCCTGTTGTCAGGACGGTGAAGTCTGTAGGCATGATTGCAGGAGGGACAGGCATACCCCAAT
GCTGCAGGTGATCCGAGCCGTCTGAAGGACCCGAACGACCACACTGTGTGCTATCTGCTTTCGCCAAC
CAGTCCGAGAAAGACATCTGCTGCGGCTGAGCTGGAGGAACGAGGAACGAACATTCTCTCGCTTCA
AGCTCTGGTACACAGTGGACAAAGCCCGATGCCTGGGACTATAGCCAAGGCTTCGTGAATGAGGAGAT
GATCAGGGACCATCTCCACCTCCTGGGAGGAGACACTGATACTGATGTGTGGACCCCCACCGATGATC
CAGTTTGCTGTTTGCCAAACCTGGAGCGTGTGGCCATCCCAAGGAGCGATGCTTCACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214638 representing NM_138877
Red=Cloning site Green=Tags(s)

MGAQLSTLSRVVLSPVWFVYSLFMKLFQRSSPAITLENPDIKYPLRLIDKEIISHDTRRFRFALPSPQHI
 LGLPIGQHIYLSTRIDGNLIRPYTPVSSDDDKGFVDLVVKVYFKDTHPKFPAGGKMSQYLENMNI GDTI
 EFRGPNGLLVYQKGKFAIRADKKNPVRTVKSVMGIAGGTGITPMLQVIRAVLKDNDHTVCYLLFAN
 QSEKDILLRPELEELRNEHSSRFKLWYTVDKAPDAWDYSQGFVNEEMIRDHLPPPGEETILMCGPPPMI
 QFACLPNLERVGHPKERCFTF

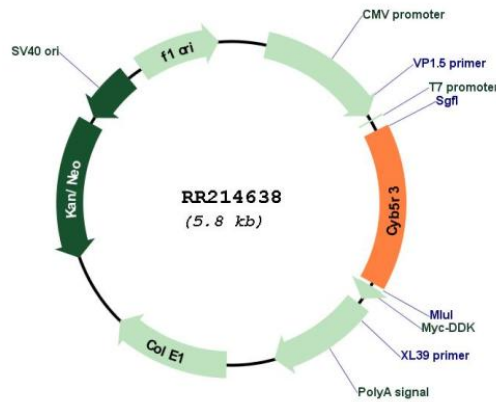
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138877

ORF Size: 903 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_138877.1 , NP_620232.1
RefSeq Size:	1893 bp
RefSeq ORF:	906 bp
Locus ID:	25035
UniProt ID:	P20070
Cytogenetics:	7q34
MW:	34.2 kDa
Gene Summary:	catalyzes the conversion of NADH, H ⁺ , and 2 ferricytochrome b(5) to NAD ⁺ and 2 ferrocycytochrome b(5) [RGD, Feb 2006]