

Product datasheet for RR209967

Cybrd1 (NM_001011954) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cybrd1 (NM_001011954) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cybrd1
Synonyms:	Dcytb
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209967 representing NM_001011954 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCATGGAAGGCTACCGGGGCTTCTGGGACTGCTGGTGTCCGCGCTGCTCGTGGGCTTCTGTCCG
TGATCTTCGTGCTCATCTGGGTCCTGCACTTCCGAGAGGGGCTTGCTGGGACGGCGCGCTCGAGTT
TAACTGGCACCCGGTGTCTGCCGTGACCGGCTTCTGCTTCATCCAGGGCATCGCCATCATCGTGTACAGA
TTGCCATGGACCTGGAAGTGCAGCAAGTTCTTGATGAAATCCATCCACGCCGGTTAAACGCTGTGGCTG
CCATCCTGGCCATCATCTCAGTCGTGGCCGTGTTTGATTATCACAATGTCCGAAAAATCCCCACATGTA
CAGTCTGCACAGCTGGGTTGGACTGACAGTTCTCATACTACATCCAACAGCTTGTGTAGGCTTTTTC
ATCTTTCTGCTTCCATGGGCTCCGCCCTCTCCGGGCAATCGTCATGCCATACATGTGTATTCTGGAC
TCCTCCTCTTGGAACAGTGATTGCCACGGTCTCATGGGAGTGACGGAAAAGCTGTTCTTTGTCTGAA
AAATCCTTCGTACCATTCCACCAGAAGGTGTTTTACAAATACCCTGGGCCTTCTGATTCTGGTA
TTTGGAGCCCTCATCTTTGGATTGTACCAGGCCACAATGGAACGCCCTAGGAACAGGCTCTATCC
CTCTTCAGCTAAATGGAGGCAACGCAGACGGAATGGAGGGGCCATAGCAATAAGCTCCGCCACAACAT
GGACGCTGCAGACGCAGAGTTAAGCAGCGAGGGAGCAGCCGAAAAGAACCCTCGGCCTGTTGACACT
GGCCAGAGGTCCACCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209967 representing NM_001011954
 Red=Cloning site Green=Tags(s)

MAMEGYRGFLGLLVLSALLVGFLSVIFVL IWWLHFREGLGWDGGALEFNWHPVLAVTGFVFIQGIIVYR
 LPWTWKCSKFLMKSIIHAGLNAVAAILAIISVVAVFDYHNVRKIPHMYSLSHSWGLTVLILYIQQLVVGF
 IFLLPWAPPSLRRAIVMPIHVYSGLLLFGTVIATVLMGVTEKLFVFLKNPSYHSFPPEGVFTNTLGLLILV
 FGALIFWIVTRPQWKRPREPGSIPLQLNGGNADGMEGAIATSSAHNMADAADAEL SSEGAARKRTLGLVDT
 GQRSTM

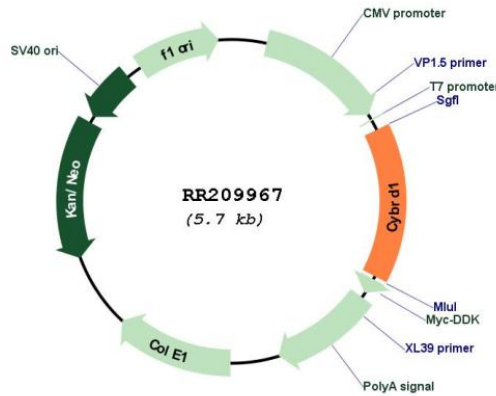
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001011954

ORF Size: 858 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_001011954.1 , NP_001011954.1
RefSeq Size:	3427 bp
RefSeq ORF:	861 bp
Locus ID:	295669
UniProt ID:	Q5RKJ2
Cytogenetics:	3q22
MW:	31.5 kDa
Gene Summary:	Ferric-chelate reductase that reduces Fe(3+) to Fe(2+). Present at the brush border of duodenal enterocytes where it probably reduces dietary Fe(3+) thereby facilitating its transport into the mucosal cells. Uses ascorbate as electron donor. May be involved in extracellular ascorbate recycling in erythrocyte membranes. May also act as a ferrireductase in airway epithelial cells (By similarity).[UniProtKB/Swiss-Prot Function]