

Product datasheet for RN209967

Cybrd1 (NM_001011954) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cybrd1 (NM_001011954) Rat Untagged Clone
Tag: Tag Free
Symbol: Cybrd1
Synonyms: Dcytb
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209967 representing NM_001011954
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCATGGAAGGCTACCGGGGCTTCTGGGACTGCTGGTGTCCGCGCTGCTCGTGGGCTTCTGTCCG
 TGATCTTCGTGCTCATCTGGGTCCTGCACTTCCGAGAGGGGCTTGGCTGGGACGGCGCGCTCGAGTT
 TAACTGGCACCCGGTGTCTGCCGTGACCGGCTTCTGCTTCATCCAGGGCATCGCCATCATCGTGTACAGA
 TTGCCATGGACCTGGAAGTGCAGCAAGTTCTTGATGAAATCCATCCACGCCGGGTTAAACGCTGTGGCTG
 CCATCCTGGCCATCATCTCAGTCGTGGCCGTGTTGATTATCACAATGTCCGAAAAATCCCCACATGTA
 CAGTCTGCACAGCTGGGTTGGACTGACAGTTCTCATACTACATCCAACAGCTTGTGTAGGCTTTTTC
 ATCTTTCTGCTTCCATGGGCTCCGCCCTCTCCGGGCAATCGTCATGCCATACATGTGTATTCTGGAC
 TCCTCCTCTTTGGAACAGTGATTGCCACGGTCTCATGGGAGTGACGGAAAAGCTGTTCTTTGTCTGAA
 AAATCCTTCGTACCATTCATTCCCACGAGAAGGTGTTTTACAAATACCCTGGGCCTTCTGATTCTGGTA
 TTTGGAGCCCTCATCTTTGGATTGTCACCAGGCCACAATGGAACGCCCTAGGGAACAGGCTCATCC
 CTCTTCAGCTAAATGGAGGCAACGCAGACGGAATGGAGGGGCCATAGCAATAAGCTCCGCCACAACAT
 GGACGCTGCAGACGCAGAGTTAAGCAGCGAGGGAGCAGCCCGAAAAGAACCCTCGGCCTTGTGACT
 GGCCAGAGGTCCACCATG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001011954
Insert Size: 861 bp



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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:	<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:	<u>NM_001011954.1</u> , <u>NP_001011954.1</u>
RefSeq Size:	3427 bp
RefSeq ORF:	861 bp
Locus ID:	295669
UniProt ID:	<u>Q5RKJ2</u>
Cytogenetics:	3q22
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]