

Product datasheet for MR218652

Cyb561d1 (NM_028061) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cyb561d1 (NM_028061) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cyb561d1
Synonyms: 1600010M23Rik; A1605489; AW457162
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218652 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCATTCATGGAGGTAGGTCTGGTCCCGCTCCAGCGAGGGAGCCGAGACTGACCCGCTGGCTGCGGA
 GAGGCAGTGGGATCTTGGCGCACCTGATAGCTTTGGGCTTACCATCTTTCTGACTGTGCTGTCCCAGCC
 CGGAACCAGTCTTTCTCCTGGCACCTGTGTTTCATGGCCTTGGCGTTCTGTCTCTGCATGGCTGAAGCT
 ATTCTACTTTCTCACCTGAGCACTCCCTGTTCTTCTTCTGCTCTCGAAAAACCCGGATTCGACTCCACT
 GGGCAGGGCAGACCATGGCCATCCTCTGTGCTGTCTTAGGCTTGGGCTTCATCATTCCAGCAAGATCCG
 AAGTGAGATGTCCATTTGGTGTCTGGCACAGCTGGATAGGAGCCTTGACACTGTTGGCCACTGGAGGA
 CAGGCACTGTGTGGGCTCTGCCTCCTCTGTCCACGAGCAGCCGGGTCTCAAGGGTGGCTCGCCTCAAGC
 TCTACCATCTGACGTGTGGCCTGGTTGTCTACCTGATGGCTACAGTAACGGTGTCTTGGGCATGTACTC
 AGTGTGGTTCCAGGCCAGATCAAAGGTACAGCCTGGTACCTGTGCCTGGGACTACCATTGTACCCAGCC
 CTGGTGATCATGCACCAGATCTCCAGCTCCTACTTGCCAAAGGAAGAAGGTGGAGATA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218652 protein sequence
 Red=Cloning site Green=Tags(s)

MHSMEVGLVPAPAREPRLTRWLRGSGILAHILALGFTIFLTVLSRPGTSLFSWHPVFMALAFCLCMAEA
 ILLFSPHSLFFFCSRKTRIRLHWAGQTMALCAVLGLGFISSKIRSEMSHLVSWHSWIGALTLATGG
 QALCGLCLLCPRAARVSRVARLKLYHLTCGLVVYLMATVTVLLGMYSVWFQAQIKGTAWYLCLGLPLYP
 LVIMHQISSSYLPRKKVEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028061

ORF Size: 690 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:

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_028061.1](#), [NP_082337.1](#)

RefSeq Size: 4077 bp

RefSeq ORF: 516 bp

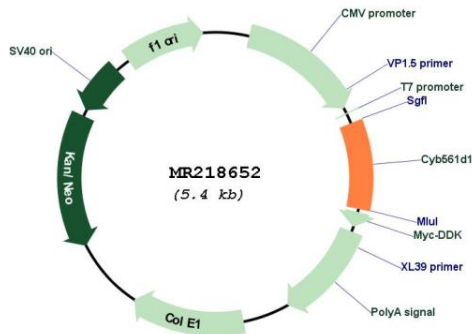
Locus ID: 72023

Cytogenetics: 3 F2.3

MW: 25.5 kDa

Gene Summary: Probable transmembrane reductase that may use ascorbate as an electron donor and transfer electrons across membranes to reduce monodehydro-L-ascorbate radical and iron cations Fe(3+) in another cellular compartment.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218652