

Product datasheet for MR229514

Ctbs (NM_001293672) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ctbs (NM_001293672) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ctbs
Synonyms: 2210401K11Rik; CTB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229514 representing NM_001293672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGTGTGGCCTCCCGAATTCACTCTGCTGCTGCTGCCGCTGTTGGCACGGCTCTCGGCCGGG
 ACTGCCGTGCTCCGAGGCTGCTCTCGCCAACCGATCCGCCACCGTCCCGACTTCGAGGCTTTGTATT
 TGATGTTGGACAGAAAACCTGAAATCTTATGACTGGTCACAGATTACAAGTGGCAGCTTTTGGAAA
 TATGACCCAGAATTATGTGCTATGCTCATTCAAAGGAGCCAGGGTAGTGCTAAAAGGTGACATCTCT
 TGAAGAATATCATTGATCCTACCTTCAGAGCATCGTGGATAGCTCAGAAAGTTGATTTAGCCAAAGCACA
 GTATATGGATGGGATTAATATAGACATAGAGCAAGAAGTTAACTGCTCATCACCTGAATATGAAGCACTG
 ACAGCTCTGGTCAAAGAAACCACAGAGAGTTTCCAACGTGAGATCGAGGGATCACAGGTAACCTTTGATG
 TAGCTTGGTCACCAAAGCGCATAGACAAAAGGTGCTATAATTACACTGGGATCGCAGATGCCTGTGACTT
 TCTTTTGTGATGCTTACGATGAGCAAAGTCAGATCTGGTCAGAATGTATTGCAGCCCAATGCCTCC
 TACAATCAGACATTAAGTGGATATATTGACTACATCAAGATGGGCATTAGCCCTAAGAACTTGTAAATGG
 GTGTTCCCTGGTATGGCTATGATTACATTTGCCTAAATCTCTCAAAGGATGACATTTGCACCATTACAAA
 GGTCCTTTTCAAGGGGGCTCCTTGTAGCGATGCTGCAGGCCATCAAGTGCCTACAAGGTGATCATGAAG
 CAGGTAATGGCTCTGTTTCTGGAAGCCAGTGAATAAAGACCAGCAAGCTCCCTATTATAACTACAAGG
 ATCCTGCTGGCCGTTTTCATCAAGTGTGGTATGATAACCCACAGAGCATCTCACTAAAGGCAGCATATGT
 CAAAAACTACGGCTTGCAGGGCATTGGCATGTGGAATGCAAAGTCTTGGACTACTCCGATGATGCTCTA
 GCCAGAGAGCAAACACAAGAAATGTGGGGAGCCTTAAACCAAGGCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229514 representing NM_001293672
 Red=Cloning site Green=Tags(s)

MALCGLPEFTLLLLPLLARLSAGDCPCSEALCQPIRHRPDFEVFVFDVGQKTWKSVDWSQITTVAAFVK
 YDPELMCYAHSKARVVLKGDISLKNIIDPTFRASWIAQKVDLAKAQYMDGINIDIEQEVNCSPEYEAL
 TALVKETTESFQREIEGSQVTFDVAWSPKRIDKRCYNYGTIADACDFLFVMSYDEQSQIWSECIAAANAP
 YNQTLTGYYIDYIKMGISPKKLVMGVWPWYGYDYICLNLSKDDICTITKVPFRGAPCSDAAGHQVPYKVIK
 QVNGSVSGSQWNKDQAPYYNYKDPAGRFHQVWYDNPQISLSKAAVYKNYGLRIGMWNANCLDYSDDAL
 AREQTQEMWGALKPRL

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_001293672

ORF Size: 1098 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_001293672.1](#), [NP_001280601.1](#)

RefSeq Size: 2906 bp

RefSeq ORF: 1101 bp

Locus ID: 74245

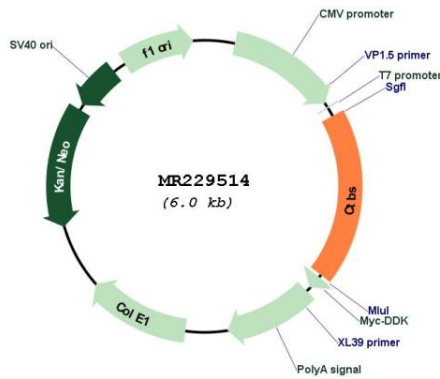
UniProt ID: [Q8R242](#)

Cytogenetics: 3 H2

MW: 41.7 kDa

Gene Summary: Involved in the degradation of asparagine-linked glycoproteins. Hydrolyze of N-acetyl-beta-D-glucosamine (1-4)N-acetylglucosamine chitobiose core from the reducing end of the bond, it requires prior cleavage by glycosylasparaginase (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229514