

Product datasheet for MR204741

H2-Q10 (NM_010391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2-Q10 (NM_010391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H2-Q10
Synonyms:	H-2Q10; Q10; Qa10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204741 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCGATGGCGCCGCGCACGCTGCTCCTGCTGCTGGCGGCTGCCCTGGCCCCGACCCAGACCAGG
CAGGCTCACACTCCATGAGGATTTTCGAAACCTCCGTTTCCCGGCCGGCCTTGGGGAGCCCCGGTTCAT
TATTGTCGGTTACGTGGACGACACGCAGTTCGTGCGCTTCGACAGCGACGCGGAGACTCCGAGGATGGAG
CCGCGGGCGCCTTGGATGGAGCAGGAGGGGCCGAGATTGGGAGCGGGAGACACAGAGAGCCAAGGGCA
ATGAGCAGAGTTCCGTGTGAGCCTGAGGACCCTGCTCGGCTACTACAACCAGAGCGAGAGCGGCTCTCA
CAGGATCCAGTGGATGTATGGCTGTAAAGTGGGGTCCGACGGGGCCTTCCGCCGGGTACCTGCAATAC
GCATACGACGGCCGCGATTACATTGCCCTGAACGAAGACCTGAAAACGTGGACGGCAGCGGACGTGGCGG
CGATTATACCCGACGCAAGTGGGAGCAGGCTGGTGTGTCAGAGTATTACAGGGCCTACCTGGAGGCCGA
GTGCGTGGAGTGGCTCCTCAGATACCTGGAGCTCGGGAAGGAGACGCTGCTGCGCACAGATCCCCAAAG
ACACATGTGACCCATCACCCAGGATCTGAAGGTGATGTCACCCTGAGGTGTTGGGCCCTGGGCTTCTACC
CTGCTGACATCACCTGACCTGGCAGTTGAATGGGAGGAGCTGACCCAGGACATGGAACCTGGTGGAGAC
CAGGCCGTCAGGGGATGGAACCTCCAGAAGTGGGCATCTGTGGTGGTGCCTCTTGGGAAGGAGCAGAAT
TACACATGCCATGTGTACCATGAGGGGCTGCCTGAGCCCTCACCTGAGATGGGAACCTCCTCCTTCCA
CTGACTCTATCATGTACACATTGCTGATCTGCTGTGGCCATCATTAAAGCTCTGGTGGTATTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204741 protein sequence
Red=Cloning site Green=Tags(s)

MGAMAPRTLLLLLAAALAPTQTQAGSHSMRYFETSFSRPGLGEPRFIIIVGYVDDTQFVRFSDAETPRME
 PRAPWMEQEGPEYWERETQRAKGNEQSFVSLRLLGGYNNQSESGSHTIQWMYGCKVGS DGRFLRGYLQY
 AYDGRDYIALNEDLKTWTAADVAAIITRRKWEQAGAAEYRAYLEAECVEWLLRYLELGKETLLRTDPPK
 THVTHHPGSEGDVTLRCWALGFYPADITLWQLNGEELTQDMELVETRPAGDGTFFQKQWASVVVPLGKEQN
 YTCHVYHEGLPEPLTLRWEPPPSTDSIMSHIADLLWPSLKLWWYL

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_010391

ORF Size: 978 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_010391.1](#), [NM_010391.2](#), [NM_010391.3](#), [NM_010391.4](#), [NP_034521.1](#)

RefSeq Size: 1473 bp

RefSeq ORF: 978 bp

Locus ID: 15007

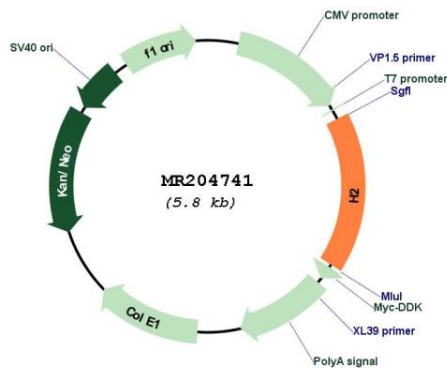
UniProt ID: [P01898](#)

Cytogenetics: 17 18.68 cM

MW: 37.3 kDa

Gene Summary: Involved in the presentation of foreign antigens to the immune system.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204741