

Product datasheet for MR221641

H2-Q7 (NM_010394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2-Q7 (NM_010394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H2-Q7
Synonyms:	H-2Q7; Ped; Q9; Qa-2; Qa-7; Qa7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221641 representing NM_010394 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTAACAAATGCTGCTCTTGCTGGTGGCGGCCGCCCTGACCCTGATCGAGACCCGCGGGCCAAAC
ACTCGTGCATATTTCCACACCGCTGTGTCCCGGCCCGCCTCGGGGAGCCCTGGTTTCTCTGTCCG
CTACGTGGACGACACGCAGTTTCGTGCGCTTCGACAGCGATGCGGAAAATCCGAGGATGGAGCCGCGGGCG
CGGTGGATGGAGCAGGAGGGCCGGAGTATTGGGAGCGGGAGACACAGATCGCCAAGGGCCATGAGCAGA
GTTTCCGAGGGAGCCTGAGGACCGCACAGAGCTACTACAACCAGAGCAAGGGCGGCTCTCACACTCCA
GTGGATGTATGGCTGTGACATGGGGTCCGACGGGCGCCTCCTCCGCGGGTACCTGCAGTTGCGCTATGAA
GGCCGCGATTACATCGCCCTGAACGAAGACCTGAAAACGTGGACGGCGGTGGACATGGCGGCACAGATCA
CCCAGCAGAGTGGGAGCAGGCTGGTATTGCAGAGAAAGACCAGGCTACCTGGAGGGCAGCTGCATGCA
GTGCTCCGAGATACCTGCAGCTCGGGAAGGAGACGCTGCTGCGCACAGATCCCCAAAGGCACATGTG
ACCCATCACCCAGGTCTTATGGTGTGTACCCTGAGGTGTGGGCCCTGGGCTTCTACCTGTGACA
TCACCCTGACTTGGCAGTTGAATGGGAGGAGCTGACCCAGGACATGGAGCTTGTGGAGACCAGGCTGC
AGGGATGGAACCTTCCAGAAGTGGCATCTGTGGTGGTGCCTCTTGGGAAGGAGCAGAATTACACATGC
CATGTGAACCATGAGGGGCTGCCTGAGCCCTTACCCTGAGATGGGGAGATGGGAGCCTCCTCCATACA
CTGTCTCCAACATGGCGACCATTGCTGTTGTGGTTGACCTTGGAGCTGTGCCATCATTTGAGCTGTGGT
GGCTTTTGTGATGAATAGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221641 representing NM_010394
Red=Cloning site Green=Tags(s)

MAL TML LLL VAAAL TLIETRAGQHSLQYFHTAVSRPGLGEPWFISVGYVDDTQFVRFDSDAENPRMEPRA
 RWMEQEGPEYWERETQIAKGHEQSFRGSLRTAQSYYNQSKGGSHTLQWMYGCDMGSDGRLLRGYLQFAYE
 GRDYIALNEDLKTWTAVDMAAQITRRKWEQAGIAEKDQAYLEGTQMQLRRYLQLGKETLLRTPPKAHV
 THHPRSYGAVTLRCWALGFYPADITL TWQLNGEELTQDMELVETRPAGDGTFFQKWASVVVPLGKEQNYTC
 HVNHEGLPEPLTLRWGRWEPPPYTVSNMATIAVVVDLGAVAIIGAVVAFVMNRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9075_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_010394

ORF Size: 1002 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010394.4](#), [NP_034524.3](#)

RefSeq Size: 1536 bp

RefSeq ORF: 1005 bp

Locus ID: 15018

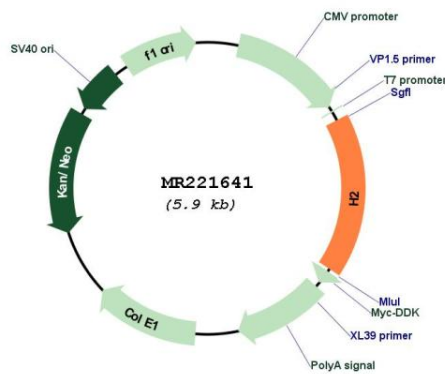
UniProt ID: [P14429](#)

Cytogenetics: 17 18.67 cM

MW: 37.9 kDa

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

Product images:



Circular map for MR221641