

Product datasheet for MR225660

H2-D1 (NM_010380) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H2-D1 (NM_010380) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: H2-D1
Synonyms: H-2D; H2-D
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR225660 representing NM_010380
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGGCGATGGCTCCGCGCACGCTGCTCCTGCTGCTGGCGGCCGCCCTGGCCCCGACTCAGACCCGCG
 CGGGCCACACTCGATGCGGTATTTGAGACCGCCGTGTCCCGGCCCGCCTCGAGGAGCCCCGGTACAT
 CTCTGTCCGCTATGTGGACAACAAGGAGTTCGTGCGCTTCGACAGCGACGCGGAGAATCCGAGATATGAG
 CCGCGGGCGCCGTGGATGGAGCAGGAGGGGCCGGAGTATTGGGAGCGGAAACACAGAAAGCCAAGGGCC
 AAGAGCAGTGGTCCGAGTGAGCCTGAGGAACCTGCTCGGCTACTACAACCAGAGCGCGGGCGGCTCTCA
 CAACTCCAGCAGATGTCTGGCTGTGACTTGGGGTCCGACTGGCGCTCCTCCGCGGGTACCTGCAGTTC
 GCCTATGAAGGCCGCGATTACATCGCCCTGAACGAAGACCTGAAAACGTGGAGCGGCGGGACATGGCGG
 CGCAGATCACCCGACGCAAGTGGGAGCAGAGTGGTGTGTCAGAGCATTACAAGGCCACCTGGAGGGCGA
 GTGCGTGGAGTGGCTCCACAGATACCTGAAGAACGGGAACCGCAGCGTGTGCGCACAGATCCCCAAAG
 GCACATGTGACCCATCACCCAGATCTAAAGGTGAAGTCAACCTGAGGTGCTGGGCCCTGGGCTTCTACC
 CTGCTGACATCACCTGACCTGGCAGTTGAATGGGAGGAGCTGACCCAGGACATGGAGCTTGTGGAGAC
 CAGGCCGTCAGGGGATGGAACCTCCAGAAGTGGGCATCTGTGGTGGTGCCTCTTGGGAAGGAGCAGAAT
 TACACATGCCGTGTGTACCATGAGGGGCTGCCTGAGCCCTCACCTGAGATGGGAGCCTCCTCCGTCCA
 CTGACTTTACATGGTGATCGTTGCTGTTCTGGGTGCCTTGGAGCTATGGCCATCATTGGAGCTGTGGT
 GGCTTTTGTGATGAAGAGAAGGAGAAACACAGGTGAAAAGGAGGGGACTATGCTCTGGCTCCAGGCTCC
 CAGAGCTCTGAAATGTCTCTCCGAGATTGTAAGCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225660 representing NM_010380
Red=Cloning site Green=Tags(s)

MGAMAPRTLLLLLAAALAPTQTRAGPHSMRYFETAVSRPGLLEPRYISVGYVDNKEFVRFSDAENPRYE
 PRAPWMEQEGPEYWERETQKAKQEQWFRVSLRNLLGYYNQASAGGSHTLQQMSGCDLGSWRLLRGYLQF
 AYEGRDYIALNEDLKTWTAADMAAQITRRKWEQSGAAEHYKAYLEGECEVWLHRYLKNGNATLLRTDSPK
 AHVTHHPRSKGEVTLRCWALGFYPADITLTWQLNGEELTQDMELVETRPAGDGTQKQWASVVVPLGKEQN
 YTCRVYHEGLPEPLTLRWEPPPSTDSYMWIVAVLGVLGAMAIIGAVVAFVMKRRRNTGGKGGDYALAPGS
 QSSEMSLRDCKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2406_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010380

ORF Size: 1089 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_010380.3](#), [NP_034510.3](#)

RefSeq Size: 1736 bp

RefSeq ORF: 1089 bp

Locus ID: 14964

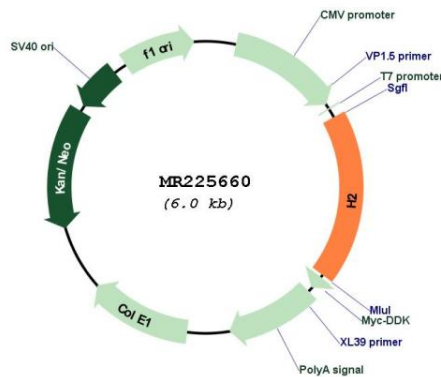
UniProt ID: [P01899](#)

Cytogenetics: 17 18.61 cM

MW: 40.8 kDa

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

Product images:



Circular map for MR225660