

Product datasheet for MR212235

H2-Q4 (NM_001143689) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2-Q4 (NM_001143689) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H2-Q4
Synonyms:	H-2Q4; H2-Gs10; Qa-4; Qa4; Qat-4; Qb-1; Qb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212235 representing NM_001143689 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCAACAATGCTGCTTCTGCTGGTGGCAGTCGCCAGACCCTGATCGAGATCCGCGCGGCCCGC
GCCCTGCTCCCTCCCGGCCGCTACCCGCCGGGGTCCCGAAGGAGTTCGGGTCTCACCGCCCT
GCCTCCAGGCCACACTTGCTGAGTTATTTCTACACCTCCGTGCCGCGGGCCTGGGGAGCCCGG
TTCATCTCTGTCGTTACGTGGACAACACGGAGTTCGTGCGCTTCGACAGCGACGCGGAGAATCCGAGAT
ATGAGCCCGGGCACCGTGGATGGAGCAGGAGGGCCGGAGTATTGGGAGCGGAAACACAGAAAGCCAA
GGGCAATGAGCAGATTTCCGAGTGAACCTGAGGACCCTGCTCAGCTACTACAACAGAGCGGGCGGC
TCTCACACTATTAGGTGATCTCTGGCTGTGAAGTGGGGTCCGACGGGCCCTCTCCGCGGGTACCAGC
AGTTTCGCCTACGACGGCCGCGATTACATCGCCCTGAACGAAGACCTGAAAACGTGGACGGCGGGGACAT
GGCGGCACAGATCACCCGACGCAAGTGGGAGCAGGCTGGTGTACAGAGAAAAGCAAGGCCTACCTGGAG
GGCGGTGCGTGCAGTCCCTCCGAGATACCTGGAGCTCGGAAGGAGACGCTGCTGCGCACAGATCCTC
CAAAGGCATGTGACATGTACCACAGATCTGACGGTGTGTCACCTGAGGTGCTGGGCCCTGGGCTT
CTACCTGCTAACATCATCTGACCTGGCAGTTGAATGGGAGGAGCTGACCCAGGACATGGAGCTTGTG
GAGACCAGGCTTCAGGGGATGGAACCTCCAGAAGTGGGCATCTGTGGTGGTGCCTCTTGGGAAGGAG
AGAATTACACATGCCATGTGCACCATGAGGGGCTGCCTGAGCCCTCACCTGAGATGGGAGCCTCCTCC
ATCCACTGTCTCAACATGGCGAACGTAGCTGTTCTGGTTGCTCTGGAGCTTGGCCATCATTGCAGCTG
TGGTGGCTTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR212235 representing NM_001143689
 Red=Cloning site Green=Tags(s)

MASTMLLLLVAVAQTLIEIRAAPRPAPLPARSPAGGPGRSSGSHRALPPGPHLLSYFYTSVSRPGLGEPR
 FISVGYVDNTEFVRFDSDAENPRYEPRAPWMEQEGPEYWERETQKAKGNEQIFRVNLRDLLSYNQSAGG
 SHTIQVISGCEVGS DGRLLRGYQQFAYDGRDYIALNEDLKTWTAADMAAQITRRKWEQAGATEKSKAYLE
 GACVQSLRRYLELGKETLLRTPPKAHVTCHHRSDGDVTLRCWALGFYPANIILTWQLNGEELTQDMELV
 ETRPSGDGTFQKWASVVVPLGKEQNYTCHVHHEGLPEPLTLRWEPPPSTVSNMANVAVLVVLGAWPSLQL
 WWLL

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_001143689

ORF Size: 1062 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_001143689.1, NP_001137161.1

RefSeq Size: 1793 bp

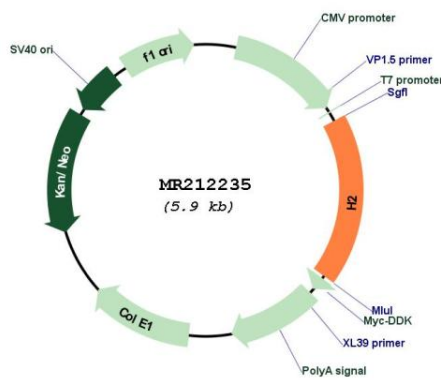
RefSeq ORF: 1065 bp

Locus ID: 15015

Cytogenetics: 17 18.65 cM

MW: 40.1 kDa

Product images:



Circular map for MR212235