

## Product datasheet for MR221276

### H2-Q2 (NM\_010392) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | H2-Q2 (NM_010392) Mouse Tagged ORF Clone                                    |
| Tag:                      | Myc-DDK   |
| Symbol:                   | H2-Q2   |
| Synonyms:                 | BE136769; ENSMUSG00000079507; Gm11132; gs14-2; H-2Q2                        |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR221276 representing NM_010392<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTGCGAAGGCTGCTCCTGCTGTTGGTGGCCGCCCTGAACTGACTGAGACACGCGCGGGCTCAC  
ACTCGTGCGGTATTTACCACCCGCGTGTCCCGGCTGGCTCGGGGAGCCCGGTTTCATTATCGTCGG  
CTACGTGGACGACACGCAGTTCGTGCGCTTCGACAGCGACCGGAGAATCCGAGGATGGAGCCGCGGGCG  
CCGTGGATGGAGCAGGAGGGCCGGAGTATTGGGAGCGGAACACACAGGTCTCCAAGGAAAATGAGCAGA  
GTTTCCGAGTGAGCCTGGGACCGCACTGAGCTACTACAACCAGCAAGGGAGGCTCTCACACTCTCCA  
GTGGTTGGTTGGCTGTGACCTGGGGCCAGACGGAAGCCTACTCCGAGGGTATGAGCAGTCTGCCTACGAT  
GGCCGCGATTACCTCGCCCTGAATGAGGATCTGATAACGTGGACAGCGCGGACCTGGCAGCACTGAAGA  
CCCGAAGCAAGTTGGAGCAGGCTGGTCTTGAGAGAAGCGCAGGGCTACCTGGAGGTCGATTGCTTGAC  
GTGGCTCCGCAGATACCTGGAGCTCGGGAAGGAGACGCTGCTGCACACAGATCCCCAAAGGCGCATGTG  
ACCCATCACCCAGTTCTCAAGGTGATGTCACCTGAGGTGCTGGGCCCTGGGCTTCTACCTGCTGACA  
TACCCCTGACCTGGCAGTTGAATGGGGAGGACCTGACCCAGGACATGGAGCTTGTGGAGACCAGGCCTTC  
AGGGATGGAACCTCCAGAAGTGGGCATCTGTGATGGTGCCCTTTGGGGAGGAGCCTAGATACACATGC  
CATGTGGAACATGAGGGCTGCCTGAGCCCTCACCTGAGATGGGAGCCTCCTCCATCCACTGACTCTT  
ACATGGTGATCATTGCTGTTCTGTTGCTTGGAGCTGTGATCATCATTGGAGCTGTGGTGGCTTTTGT  
GATGAAAAGAGGGAGAAACACAGGTGAAAAGTAAAGACTACGCTCAAGATCCAGGCAGGGACAGCCCC  
CAGAGCTCTGATATCTCTCTCTAGAAATTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221276 representing NM\_010392  
 Red=Cloning site Green=Tags(s)

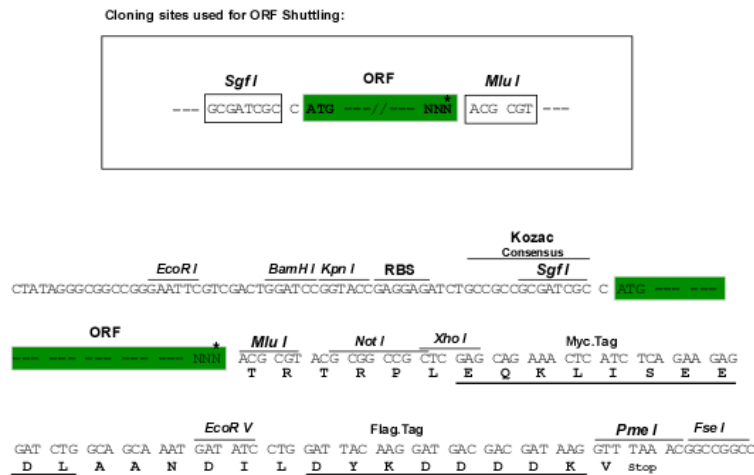
MALRRLLLLLVAALKLTETRAGSHSLRYFTTAVSRPGLGEPRFIIIVGYVDDTQFVRFDSDAENPRMEPRA  
 PWMEQEGPEYWERNQVSKENEQSFVSLGTALSYYNQSKGGSHTLQWL VGCDLGPDGSLLRGYEQSAYD  
 GRDYLALNEDLITWTAADLAALKTRSKLEQAGLAEKRRAYLEVDCLTWLRRYLELGKETLLHTDPPKAHV  
 THHPSSQGDVTLRCWALGFYPADITLTWQLNGEDLTQDMELVETRP SGDGTFFQKWASVMVPFGEEPRTYC  
 HVEHEGLPEPLTRWEPPPSTDSYMVIIAVLVLVGAVIIIGAVVAFVMKRGRTGGKVRDYAQDPGRDSP  
 QSSDISLLEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9019\\_f05.zip](https://cdn.origene.com/chromatograms/mm9019_f05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010392

**ORF Size:** 1080 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\\_010392.3](#)

**RefSeq Size:** 1100 bp

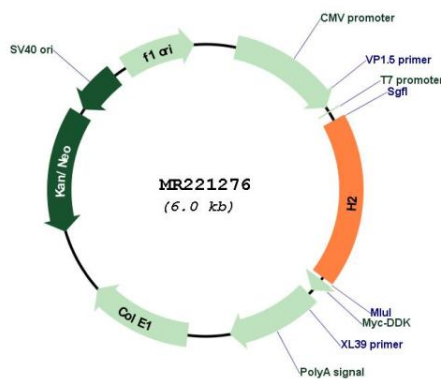
**RefSeq ORF:** 1083 bp

**Locus ID:** 15013

**Cytogenetics:** 17 18.64 cM

**MW:** 40.9 kDa

**Product images:**



Circular map for MR221276