

## Product datasheet for **MG221641**

### 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:	TurboGFP
Symbol:	H2-Q7
Synonyms:	H-2Q7; Ped; Q9; Qa-2; Qa-7; Qa7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221641 representing NM_010394 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCTAACAAATGCTGCTCTTGCTGGTGGCGGCCGCCCTGACCCTGATCGAGACCCGCGGGCCAAAC  
ACTCGCTGCAATATTTCCACACCGCTGTGTCCCGGCCCGCCTCGGGGAGCCCTGGTTCATCTCTGTCTCGG  
CTACGTGGACGACACGCAGTTTCGTGCGCTTCGACAGCGATGCGGAAAATCCGAGGATGGAGCCGCGGGCG  
CGGTGGATGGAGCAGGAGGGCCGGAGTATTGGGAGCGGGAGACACAGATCGCCAAGGGCCATGAGCAGA  
GTTTCCGAGGGAGCCTGAGGACCGCACAGAGCTACTACAACCAGAGCAAGGGCGGCTCTCACACTCCA  
GTGGATGTATGGCTGTGACATGGGGTCCGACGGGCGCCTCCTCCGCGGGTACCTGCAGTTGCGCTATGAA  
GGCCGCGATTACATCGCCCTGAACGAAGACCTGAAAACGTGGACGGCGGTGGACATGGCGGCACAGATCA  
CCCAGCAAGTGGGAGCAGGCTGGTATTGCAGAGAAAGACCAGGCTACCTGGAGGGCAGCTGCATGCA  
GTCGCTCCGAGATACCTGGAGCTCGGGAAGGAGACGCTGCTGCGCACAGATCCCCAAAGGCACATGTG  
ACCCATCACCCAGGTCTTATGGTGCTGTACCCTGAGGTGCTGGGCCCTGGGCTTCTACCTGCTGACA  
TCACCCTGACTTGGCAGTTGAATGGGGAGGAGCTGACCCAGGACATGGAGCTTGTGGAGACCAGGCTGC  
AGGGATGGAACCTTCCAGAAGTGGGCATCTGTGGTGGTGCCCTTGGGAAGGAGCAGAATTACACATGC  
CACGTGAACCATGAGGGGCTGCCTGAGCCCTTACCCTGAGATGGGGGAGATGGGAGCCTCCTCCATACA  
CTGTCTCCAACATGGCGACCATTGCTGTTGTGGTTGACCTTGGAGCTGTGCCATCATTGGAGCTGTGGT  
GGCTTTGTGATGAATAGGAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG221641 representing NM\_010394  
Red=Cloning site Green=Tags(s)

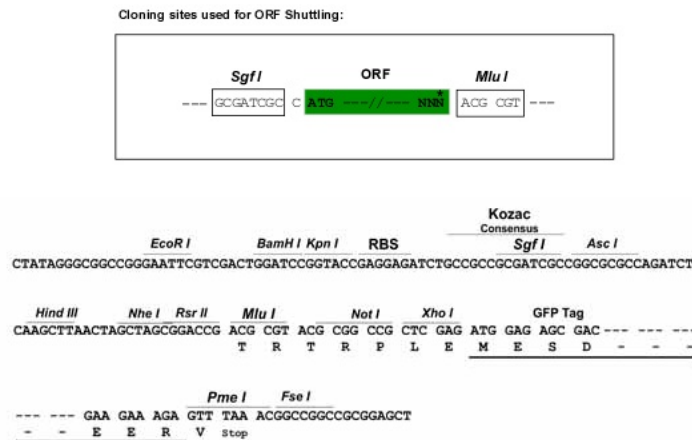
MAL TML LLL VAAAL TLIETRAGQHSLQYFHTAVSRPGLGEPWFI SVGYVDDTQFVRFSDAENPRMEPRA  
 RWMEQEGPEYWERETQIAKGHEQSFGRSLRTAQSYYNQSKGGSHTLQWMYGCDMGSDGRLLRGYLQFAYE  
 GRDYIALNEDLKTWTAVDMAAQITRRKWEQAGIAEKDQAYLEGTQMQLRRYLEL GKETLLRTDPPKAHV  
 THHPRSYGAVTLRCWALGFYPADITL TWQLNGEELTQDMELVETRPAGDGTFFQKWASVVVPLGKEQNYTC  
 HVNHEGLPEPLTLRWGRWEPPPYTVSNMATIAVVVDLGAVAIIGAVVAFVMNRR

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1563\\_e05.zip](https://cdn.origene.com/chromatograms/ja1563_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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.

**RefSeq:** [NM\\_010394.3](#)

**RefSeq Size:** 1345 bp

**RefSeq ORF:** 1005 bp

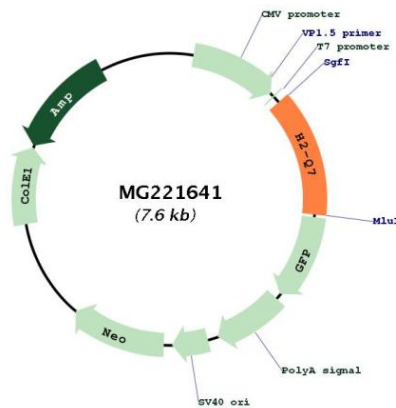
**Locus ID:** 15018

**UniProt ID:** [P14429](#)

**Cytogenetics:** 17 18.67 cM

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

### Product images:



Circular map for MG221641