

Product datasheet for **MG204741**

H2-Q10 (NM_010391) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2-Q10 (NM_010391) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H2-Q10
Synonyms:	H-2Q10; Q10; Qa10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204741 representing NM_010391 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGCGATGGCGCCGCGCACGCTGCTCCTGCTGCTGGCGGCTGCCCTGGCCCCGACCCAGACCAGG
CAGGCTCACACTCCATGAGGATTTTCGAAACCTCCGTTTCCCGGCCGGCCTTGGGGAGCCCCGGTTCAT
TATTGTCGGTTACGTGGACGACACGCAGTTCGTGCGCTTCGACAGCGACGCGGAGACTCCGAGGATGGAG
CCGCGGGCGCCTTGGATGGAGCAGGAGGGGCCGAGATTGGGAGCGGGAGACACAGAGAGCCAAGGGCA
ATGAGCAGAGTTCCGTGTGAGCCTGAGGACCCTGCTCGGCTACTACAACCAGAGCGAGAGCGGCTCTCA
CAGGATCCAGTGGATGTATGGCTGTAAAGTGGGGTCCGACGGGGCCTTCCGCCGGGTACCTGCAATAC
GCATACGACGGCCGCGATTACATTGCCCTGAACGAAGACCTGAAAACGTGGACGGCAGCGGACGTGGCGG
CGATTATACCCGACGCAAGTGGGAGCAGGCTGGTGTGTCAGAGTATTACAGGGCCTACCTGGAGGCCGA
GTGCGTGGAGTGGCTCCTCAGATACCTGGAGCTCGGGAAGGAGACGCTGCTGCGCACAGATCCCCAAAG
ACACATGTGACCCATCACCCAGGATCTGAAGGTGATGTCACCCTGAGGTGTTGGGCCCTGGGCTTCTACC
CTGCTGACATCACCTGACCTGGCAGTTGAATGGGGAGGAGCTGACCCAGGACATGGAACCTGGTGGAGAC
CAGGCCGTCAGGGGATGGAACCTCCAGAAGTGGGCATCTGTGGTGGTGCCTCTTGGGAAGGAGCAGAAT
TACACATGCCATGTGTACCATGAGGGGCTGCCTGAGCCCCTCACCTGAGATGGGAACCTCCTCCTTCCA
CTGACTCTATCATGTACACATTGCTGATCTGCTGTGGCCATCATTAAGCTCTGGTGGTATTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204741 representing NM_010391
 Red=Cloning site Green=Tags(s)

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MGAMAPRTL L L L L L A A L A P T Q T Q A G S H S M R Y F E T S V S R P G L G E P R F I I V G Y V D D T Q F V R F D S D A E T P R M E
P R A P W M E Q E G P E Y W E R E T Q R A K G N E Q S F R V S L R T L L G Y N Q S E S G S H T I Q W M Y G C K V G S D G R F L R G Y L Q Y
A Y D G R D Y I A L N E D L K T W T A A D V A A I I T R R K W E Q A G A A E Y Y R A Y L E A E C V E W L L R Y L E L G K E T L L R T D P P K
T H V T H H P G S E G D V T L R C W A L G F Y P A D I T L T W Q L N G E E L T Q D M E L V E T R P A G D G T F Q K W A S V V V P L G K E Q N
Y T C H V Y H E G L P E P L T L R W E P P P S T D S I M S H I A D L L W P S L K L W W Y L
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TRTRPLE - GFP Tag - V

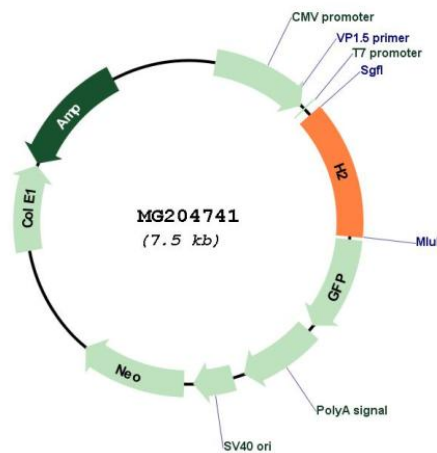
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010391

ORF Size: 975 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:	<ol style="list-style-type: none">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_010391.2 , NP_034521.1
RefSeq Size:	1474 bp
RefSeq ORF:	978 bp
Locus ID:	15007
UniProt ID:	P01898
Cytogenetics:	17 18.68 cM
Gene Summary:	Involved in the presentation of foreign antigens to the immune system.[UniProtKB/Swiss-Prot Function]