

## Product datasheet for **MG225660**

### 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:	TurboGFP
Symbol:	H2-D1
Synonyms:	H-2D; H2-D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225660 representing NM_010380 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGGCGATGGCTCCGCGCACGCTGCTCCTGCTGCTGGCGGCCGCCCTGGCCCCGACTCAGACCCGCG  
CGGGCCACACTCGATGCGGTATTTGAGACCGCCGTGTCCCGGCCCGCCTCGAGGAGCCCCGGTACAT  
CTCTGTCCGGTATGTGGACAACAAGGAGTTCGTGCGCTTCGACAGCGACGCGGAGAATCCGAGATATGAG  
CCGCGGGCGCCGTGGATGGAGCAGGAGGGGCCGGAGTATTGGGAGCGGAAACACAGAAAGCCAAGGGCC  
AAGAGCAGTGGTCCGAGTGAGCCTGAGGAACCTGCTCGGCTACTACAACCAGAGCGCGGGCGGCTCTCA  
CACTCCAGCAGATGTCTGGCTGTGACTTGGGGTCCGACTGGCGCTCCTCCGCGGGTACCTGCAGTTC  
GCCTATGAAGGCCGCGATTACATCGCCCTGAACGAAGACCTGAAAACGTGGACGGCGGGCAGATGGCGG  
CGCAGATCACTCGACGCAAGTGGGAGCAGAGTGGTGTGTCAGAGCATTACAAGGCCACCTGGAGGGCGA  
GTGCGTGGAGTGGCTCCACAGATACCTGAAGAACGGGAACCGCAGCGTGTGCGCACAGATCCCCAAAG  
GCACATGTGACCCATCACCCAGATCTAAAGGTGAAGTCAACCTGAGGTGCTGGGCCCTGGGCTTCTACC  
CTGCTGACATCACCTGACCTGGCAGTTGAATGGGAGGAGCTGACCCAGGACATGGAGCTTGTGGAGAC  
CAGGCCGTCAGGGGATGGAACCTCCAGAAGTGGGCATCTGTGGTGGTGCCTCTTGGGAAGGAGCAGAAT  
TACACATGCCGTGTACCATGAGGGGCTGCCTGAGCCCTCACCTGAGATGGGAGCCTCCTCCGTCCA  
CTGACTTTACATGGTGATCGTTGCTGTTCTGGGTGCCTTGGAGCTATGGCCATCATTGGAGCTGTGGT  
GGCTTTTGTGATGAAGAGAAGGAGAAACACAGGTGAAAAGGAGGGGACTATGCTCTGGCTCCAGGCTCC  
CAGAGCTCTGAAATGTCTCTCCGAGATTGTAAGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG225660 representing NM\_010380  
 Red=Cloning site Green=Tags(s)

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

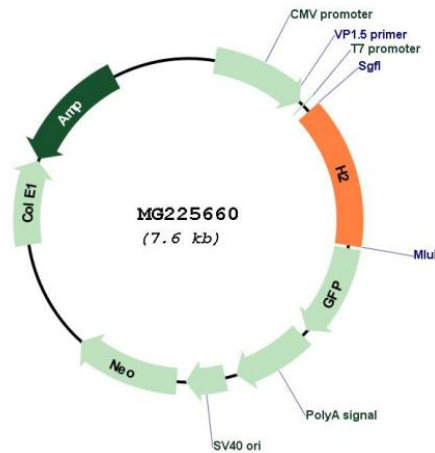
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_010380

<b>ORF Size:</b>	1086 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_010380.3</a> , <a href="#">NP_034510.3</a>
<b>RefSeq Size:</b>	1736 bp
<b>RefSeq ORF:</b>	1089 bp
<b>Locus ID:</b>	14964
<b>UniProt ID:</b>	<a href="#">P01899</a>
<b>Cytogenetics:</b>	17 18.61 cM
<b>Gene Summary:</b>	Involved in the presentation of foreign antigens to the immune system.[UniProtKB/Swiss-Prot Function]