

Product datasheet for **MG223340**

H2-T23 (NM_010398) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H2-T23 (NM_010398) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H2-T23
Synonyms:	37b; 37c; H-2T23; H2-Qa1; Qa-1; Qa-1(b); Qa1; Qed-1; T18c; T18c(37); T23b; T23d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223340 representing NM_010398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGCTTTTTGCCCACTTGCTTCAGCTGCTGGTCAGCGCCACAGTCCCGACCCAGAGTAGCCCACT
CGCTGCGGTATTTACCACCGCCGTGTCCCGCCCGCCCTCGGGAGCCCGGTTTCATCATTGTCGGCTA
CGTGGACGACACGCAGTTCGTGCGCTTCGACAGCGACGCGAAAAATCCGAGGATGGAGCCTCGGGCGCG
TGGATTGAGCAGGAGGGCCGGAGTATTGGAGCGGGAGACTTGGAAAGCCAGGGACATGGGGAGGAACT
TCAGAGTAAACCTGAGGACCCTGCTCGGCTACTACAATCAGAGTAACGACGAATCTCACAGCTGCAGTG
GATGTACGGCTGCGACGTGGGGCCCGATGGGCGCCTGCTCCGCGGTATTGTGAGGAGCCATACGATGGC
CAGGATTACATCTCCCTGAACGAGGACCTGCGTTCCTGGACCGGAATGACATAGCCTCACAGATCTCTA
AGCACAAGTCAGAGGCAGTCGATGAGGCCACCAACAGAGGGCATACTGCAAGGTCTTTCGCTGGAGTG
GCTCCATAGATACCTACGGCTGGGAAATGAGACTGCAGCGCTCAGACCCTCCAAAGGCACATGTGACC
CATCACCTAGATCTGAAGATGAAGTACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCTGACATCA
CCCTGACCTGGCAGTTGAATGGGAGGAGCTGACCCAGGACATGGAGCTTGTGGAGACCAGGCCTGCAGG
GGATGGAACCTTCCAGAAGTGGGCAGCTGTCGTGGTGCCTTTGGGAAGGAGCAGTATTACATGCCAT
GTGTACCATGAGGGCTGCCTGAGCCCTCACCTGAGATGGGAGCCTCCTCCATCCACTGTCTCCAA
TGGTAATCATAGCTGTTCTGGTTGCTTGGAGCTGTGATCATCCTTGGAGCTGTGGTGGCTTTTGTGAT
GAAGAGGAGGAGACATAGGTGTAAGGATGCTATGCTCATGTTCTAGGCAGCAAGAGCTTCCAGACC
TCTGACTGGCCTCAGAAGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG223340 representing NM_010398
 Red=Cloning site Green=Tags(s)

MLLFAHLLQLLSATVPTQSSPHSLRYFTTAVSRPGLGEPRFIIIVGYVDDTQFVRFDSDAENPRMEPRAR
 WIEQEGPEYWERETWKARDMGRNFRVNLRTLLGYYNQSNDESHTLQWYMGCDVGPDRLLRGYQCQEAYDG
 QDYISLNEDLRSWTANDIASQISKHKSEAVDEAHQQRAYLQGPCVEWLHRYLRLGNETLQRSDPPKAHVT
 HHPRSEDEVTLRCWALGFYPADITLTWQLNGEELTQDMELVETRPAGDGTFFQKWAAVVVPLGKEQYYTCH
 VYHEGLPEPLTLRWEPPPSTVSNMVIIVLVVLGAVIILGAVVAFVMKRRRHIGVKGYAHLVLSKSFQT
 SDWPQKA

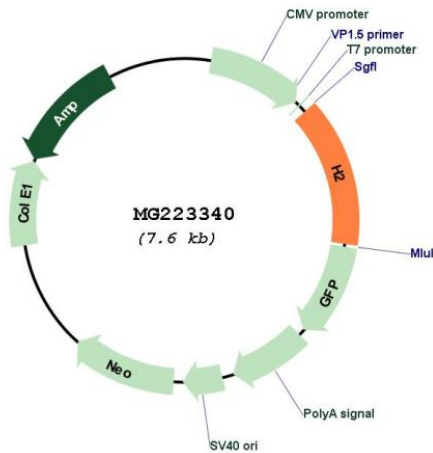
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010398

ORF Size:	1071 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_010398.3 , NP_034528.1
RefSeq Size:	1317 bp
RefSeq ORF:	1074 bp
Locus ID:	15040
UniProt ID:	P06339
Cytogenetics:	17 18.86 cM
Gene Summary:	Involved in the presentation of foreign antigens to the immune system.[UniProtKB/Swiss-Prot Function]