

Product datasheet for **MG217073**

H13 (NM_010376) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H13 (NM_010376) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	H13
Synonyms:	1200006O09Rik; 4930443L17Rik; 5031424B04Rik; AV020344; H-13; Hm13; PSL3; Spp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217073 representing NM_010376 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCGGCTGTCAGCGATCCGCACAACGGCAGCGCCGAGGCTGGCACCCAGCCAACGGCAGCAGCG
GGCCGCCCTCCACGCCGAGGGCATCGCGCTGGCCTACGGCAGCCTCTGCTCATGGCGTGTGCCAT
CTTCTTCGGCGCCCTGCGCTCGGTGCGCTGCGCCCGGCAAGAGCTCTTCGGACATGCCAGAAACCATC
ACCAGTCGAGATGCCGCCGCTTCCCATCATCGCCAGCTGCACACTCCTGGGGCTCTACCTCTTTTTCA
AAATATTCTCCCAGGAGTACATCAACCTCTTGCTGCCATGTATTCTTCGTGCTGGGGATCCTGGCCCT
GTCACACACCATCAGCCCTTATGAATAAGTTTTTCCAGCCAACCTCCCAAACCGCCAGTATCAGCTG
CTCTTCACACAGGGCTCTGGGAAAACAAGAAGAGATCATCAACTATGAGTTTGACACTAAGGACCTGG
TGTGCCTGGGCCTAAGCAGCGTGGTGTCTGGTACCTTCTGAGGAAGCACTGGATTGCCAACAACT
GTTTGGCTGGCCTTCTCCCTTAATGGGGTAGAGCTCCTGCACCTGAACAACGTGAGCACTGGCTGTATC
CTGCTCGGAGGACTCTTCATCTATGACATCTTCTGGGTATTCCGGCACCAACGTGATGGTACAGTGGCCA
AGTCCCTTGAGGCACCAATAAAATTGGTGTCCCCAGGATCTGCTGGAGAAGGGCCTTGAAGCAGACAA
CTTTGCCATGCTGGGACTTGGAGACATTGTCATTCCAGGGATCTTCATTGCCCTACTGCTTCGTTTTGAC
ATCAGCTTGAAGAAGAACACGCACACTACTTCTACACCAGCTTCGCCGCTACATCTTCGGCCTGGGTC
TCACCATCTTCATCATGCACATCTTCAAGCACGCCAGCCGCTCTCCTGTACCTGGTCCCTGCAT
CGGCTTTCCTGTCTGGTGGCACTAGCCAAGGGAGAAGTGGCCGAGATGTTCAAGTATGAGGAGTCCAAC
CCTAAAGATCCAGCAGCCGAGACTGAATCCAAAGAGGAGTCAACAGAGGCGTCGGCATCGAAGAGGCTAG
AGAAGAAGGAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217073 representing NM_010376
 Red=Cloning site Green=Tags(s)

MDSAVSDPHNGSAEAGTPANGTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKSSSDMPETI
 TSRDAARFPIIASCTLLGLYLFFKIFSQEYINLLL SMYFFVLGILALSHITISPFMKNKFFPANFPNRQYQL
 LFTQGSNGENKEEII NYEFDTKDLVCLGLSSVVGWVYLLRKHWIANNLFGAFSLNGVELLHLNNVSTGCI
 LLGGLFIYDIFWVFGTNVMVTVAKSFEAPIKLVFPQDLLEKGLEADNFAMGLGDIVIPGIFIALLLRFD
 ISLKKNTHTYFYTSFAAYIFGLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVAEMFSYEESN
 PKDPAAETESKEESTEASASKRLEKKEK

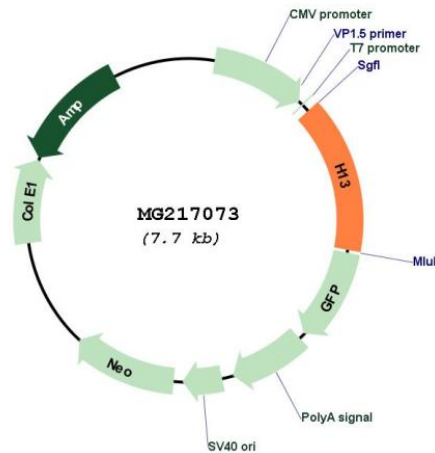
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_010376

ORF Size:	1134 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_010376.4 , NP_034506.1
RefSeq Size:	5202 bp
RefSeq ORF:	1137 bp
Locus ID:	14950
UniProt ID:	Q9D8V0
Cytogenetics:	2 75.41 cM
Gene Summary:	Catalyzes intramembrane proteolysis of some signal peptides after they have been cleaved from a preprotein, resulting in the release of the fragment from the ER membrane into the cytoplasm. Required to generate lymphocyte cell surface (HLA-E) epitopes derived from MHC class I signal peptides. Involved in the intramembrane cleavage of the integral membrane protein PSEN1. Cleaves the integral membrane protein XBP1 isoform 1 in a DERL1/RNF139-dependent manner (By similarity). May play a role in graft rejection (PubMed:9354467). [UniProtKB/Swiss-Prot Function]