

Product datasheet for MR217073

H13 (NM_010376) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	H13 (NM_010376) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	H13
Synonyms:	1200006O09Rik; 4930443L17Rik; 5031424B04Rik; AV020344; H-13; Hm13; PSL3; Spp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217073 representing NM_010376 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTCGGCTGTCAGCGATCCGCACAACGGCAGCGCCGAGGCTGGCACCCAGCCAACGGCAGCAGCG
GGCCGCCCTCCACGCCGAGGGCATCGCGCTGGCCTACGGCAGCCTCTGCTCATGGCGTGTGCCAT
CTTCTTCGGCGCCCTGCGCTCGGTGCGCTGCGCCCGGCAAGAGCTCTTCGGACATGCCAGAAACCATC
ACCAGTCGAGATGCCGCCGCTTCCCATCATCGCCAGCTGCACACTCCTGGGGCTCTACCTCTTTTTCA
AAATATTCTCCCAGGAGTACATCAACCTCTTGCTGTCCATGTATTCTTCGTGCTGGGGATCCTGGCCCT
GTCACACACCATCAGCCCTTATGAATAAGTTTTTCCAGCCAACCTCCCAAACCGCCAGTATCAGCTG
CTCTTCACACAGGGCTCTGGGAAAACAAGAAGAGATCATCAACTATGAGTTTGACACTAAGGACCTGG
TGTGCCTGGGCCTAAGCAGCGTGGTGTCTGGTACCTTCTGAGGAAGCACTGGATTGCCAACAACT
GTTTGGCCTGGCCTTCTCCCTTAATGGGGTAGAGCTCCTGCACCTGAACAACGTGAGCACTGGCTGTATC
CTGCTCGGAGGACTCTTCATCTATGACATCTTCTGGGTATTCGGCACCAACGTGATGGTACAGTGGCCA
AGTCCCTTGAGGCACCAATAAAATTGGTGTTCCTCCAGGATCTGCTGGAGAAGGGCCTTGAAGCAGACAA
CTTTGCCATGCTGGGACTTGGAGACATTGTCATTCCAGGATCTTCATTGCCCTACTGCTTCGTTTTGAC
ATCAGCTTGAAGAAGAACACGCACACTACTTCTACACCAGCTTCGCCGCTACATCTTCGGCCTGGGTC
TCACCATCTTCATCATGCACATCTTCAAGCACGCCAGCCGCTCTCCTGTACCTGGTCCCTGCCTGCAT
CGGCTTTCCTGTCTGGTGGCACTAGCCAAGGGAGAAGTGGCCGAGATGTTCAAGTATGAGGAGTCCAAC
CCTAAAGATCCAGCAGCCGAGACTGAATCCAAAGAGGAGTCAACAGAGGCGTCGGCATCGAAGAGGCTAG
AGAAGAAGGAGAAA

ACGGTACGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217073 representing NM_010376
Red=Cloning site Green=Tags(s)

MDSAVSDPHNGSAEAGTPANGTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKSSSDMPETI
 TSRDAARFPPIASCTLLGLYLFFKIFSQEYINLLL SMYFFVLGILALSHTISPFMKNKFFPANFPNRQYQL
 LFTQSGGENKEEII NYEFDTKDLVCLGLSSVGVWYLLRKHVIANNLFGALFSLNGVELLHLNINVSTGCI
 LLGGLFIYDIFWVFGTNVMVTVAKSFEAPIKLVFPQDLLLEKGLEADNFAMGLGDIVIPGIFIALLLRFD
 ISLKKNHTYFYTSFAAYIFGLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVAEMFSYEESN
 PKDPAATESKEESTEASASKRLEKKEK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9028_f01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

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:

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

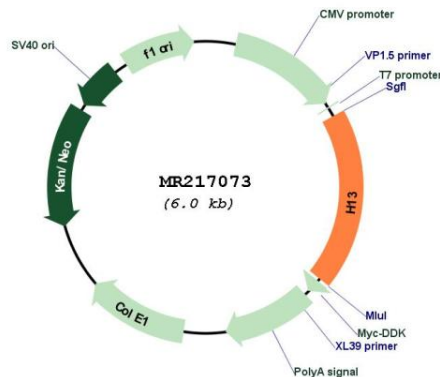
UniProt ID: [Q9D8V0](#)

Cytogenetics: 2 75.41 cM

MW: 42.2 kDa

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]

Product images:



Circular map for MR217073