

## Product datasheet for MR218508

### H13 (NM\_001159551) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	H13 (NM_001159551) 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:	>MR218508 representing NM_001159551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATTCGGCTGTCAGCGATCCGCACAACGGCAGCGCCGAGGCTGGCACCCAGCCAACGGCAGCAGCG  
GGCCGCCCTCCACGCCGAGGGCATCGCGCTGGCTACGGCAGCCTCCTGCTCATGGCGTGTGCCAT  
CTTCTTCGGCGCCCTGCGCTCGGTGCGCTGCGCCCGGCAAGAGCTCTTCGGACATGCCAGAAACCATC  
ACCAGTCGAGATGCCGCCGCTTCCCATCATCGCCAGCTGCACACTCCTGGGGCTCTACCTCTTTTTCA  
AAATATCTCCCAGGAGTACATCAACCTCTTGCTGTCCATGTATTCTTCGTGCTGGGGATCCTGGCCCT  
GTCACACACCATCAGCCCTTATGAATAAGTTTTTCCAGCCAACCTCCCAAACCGCCAGTATCAGCTG  
CTCTTCACACAGGGCTCTGGGAAAACAAGAAGAGATCATCAACTATGAGTTTGACACTAAGGACCTGG  
TGTGCCTGGGCTAAGCAGCGTGGTGTCTGGTACCTTCTGAGGAAGCACTGGATTGCCAACAACT  
GTTTGGCTGGCCTTCTCCCTTAATGGGGTAGAGCTCCTGCACCTGAACAACGTGAGCACTGGCTGTATC  
CTGCTCGGAGGACTCTTCATCTATGACATCTTCTGGGTATTCCGGCACCACGTGATGGTACAGTGGCCA  
AGTCCCTTGAGGCACCAATAAAATTGGTGTCCCCAGGATCTGCTGGAGAAGGGCCTTGAAGCAGACAA  
CTTTGCCATGCTGGGACTTGGAGACATTGTCATTCCAGGGATCTTCATTGCCTTACTGCTTCGTTTTGAC  
ATCAGCTTGAAGAAGAACACGCACACCTACTTACACCAGCTTCGCCGCTACATCTTCGGCCTGGGTC  
TCACCATCTTCATCATGCACATCTTCAAGCACGCCAGCCGCTCCTGTACCTGGTCCCTGCCTGCAT  
CGGCTTTCCTGTCTGGTGGCACTAGCCAAGGGAGAAGTGGCCGAGATGTTACAGTACGAGTCTCGGCC  
GTAATCTGCCTCATACGCCGAGGCTCACTCACTTTCCACAGTCTCGGGCTCCCTGCCAGCCTGGCCG  
ACTCCATGCAGCAGAAGCTAGCTGGCCCTCGTCGCCGGCGCCCGAGAATCCAGCGCCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR218508 representing NM\_001159551  
Red=Cloning site Green=Tags(s)

MDSAVSDPHNGSAEAGTPANGTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKSSSDMPETI  
 TSRDAARFPIIASCTLLGLYLFFKIFSQEYINLLL SMYFFVLGILALSHITISPFMNKFFPANFPNRQYQL  
 LFTQSGSENKEEII NYEFDTKDLVCLGLSSVVGWVYLLRKHWIANNLFGAFSLNGVELLHLNNVSTGCI  
 LLGGLFIYDIFWVFGTNVMVTVAKSFEAPIKLVFPQDLLEKGLEADNFAMGLGDIVIPGIFIALLLRFD  
 ISLKNHTHTYFYTSFAAYIFGLGLTIFIMHIFKHAQPALLYLVPACIGFPVLVALAKGEVAEMFSYESSA  
 VILPHTPRLTHFPTVSGSPASLADSMQQLAGPRRRRPQNPSAM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001159551

**ORF Size:** 1182 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\\_001159551.1](#), [NP\\_001153023.1](#)

**RefSeq Size:** 5402 bp

**RefSeq ORF:** 1185 bp

**Locus ID:** 14950

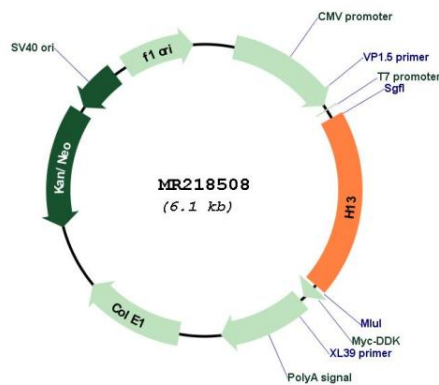
**UniProt ID:** [Q9D8V0](#)

**Cytogenetics:** 2 75.41 cM

**MW:** 43.8 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 MR218508