

Product datasheet for MR217089

H13 (NM_001159553) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H13 (NM_001159553) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: H13
Synonyms: 1200006O09Rik; 4930443L17Rik; 5031424B04Rik; AV020344; H-13; Hm13; PSL3; Spp
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR217089 representing NM_001159553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGATTGGCTGTCAGCGATCCGCACAACGGCAGCGCCGAGGCTGGCACCCAGCCAACGGCAGCAGCG
 GGCCGCCCTCCACGCCGAGGGCATCGCGCTGGCTACGGCAGCCTCTGCTCATGGCGCTGCTGCCAT
 CTTCTTGGCGCCCTGCGCTCGGTGCGCTGCGCCCGGCAAGAGCTCTTCGGACATGCCAGAAACCATC
 ACCAGTCGAGATGCCGCCGCTTCCCCATCATCGCCAGCTGCACACTCCTGGGGCTCTACCTCTTTTCA
 AAATATCTCCCAGGAGTACATCAACCTCTTGCTGTCCATGTATTTCTCGTGCTGGGGATCCTGGCCCT
 GTCACACACCATCAGGTCAGAAGGCATCTCTCGACAGCCTTTGAAGCTGCTTTCTCAGGAGCCAGTACAG
 GGTCTTGGATGGGAACATGGTCTTTGTGTCAATTCAGAGCCAGGTTAAATCCTGGCTGTAAATCCAAG
 GGAATCTCCCTCAGTCAGCACTATACG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217089 representing NM_001159553
 Red=Cloning site Green=Tags(s)

MDSAVSDPHNGSAEAGTPANGTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKSSSDMPETI
 TSRDAARFPIIASCTLLGLYLFFKIFSQEYINLLL SMYFFVLGILALSHIRSEGISRQPLKLLSQEPVQ
 GLGWEHGLLCHSEPLNPGCKIQGNLPSRQHYT

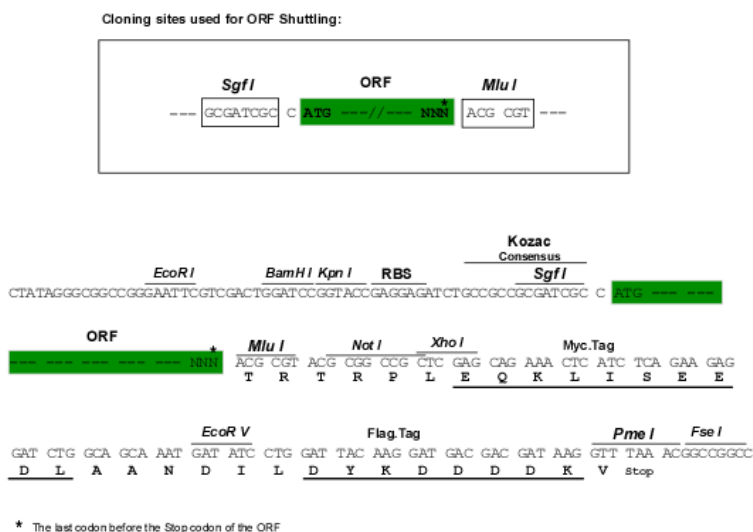
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

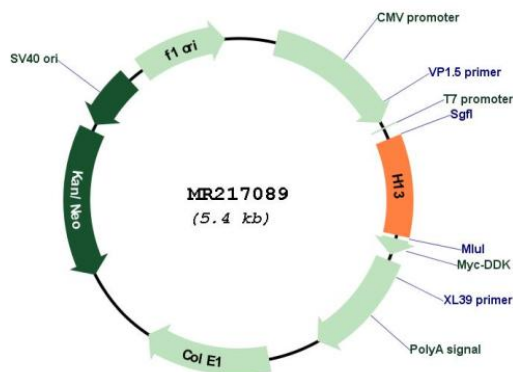


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001159553

ORF Size: 519 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:	<u>NM_001159553.1</u> , <u>NP_001153025.1</u>
RefSeq Size:	4499 bp
RefSeq ORF:	522 bp
Locus ID:	14950
UniProt ID:	<u>Q9D8V0</u>
Cytogenetics:	2 75.41 cM
MW:	19.2 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]