

Product datasheet for **MG217089**

H13 (NM_001159553) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: H13 (NM_001159553) 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: >MG217089 representing NM_001159553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATTCGGCTGTCAGCGATCCGCACAACGGCAGCGCCGAGGCTGGCACCCAGCCAACGGCAGCAGCG
 GGCCGCCCTCCACGCCGAGGGCATCGCGCTGGCTACGGCAGCCTCTGCTCATGGCGTGTGCCCAT
 CTTCTTCGGCGCCCTGCGCTCGGTGCGCTGCGCCCGGCAAGAGCTCTTCGGACATGCCAGAAACCATC
 ACCAGTCGAGATGCCGCCGCTTCCCATCATCGCCAGCTGCACACTCCTGGGGCTCTACCTCTTTTTCA
 AAATATTCTCCCAGGAGTACATCAACCTCTTGCTGCCATGTATTCTTCGTGCTGGGGATCCTGGCCCT
 GTCACACACCATCAGGTCAGAAGGCATCTCTCGACAGCCTTTGAAGCTGCTTTCTCAGGAGCCAGTACAG
 GGTCTTGATGGGAACATGGTCTTTTGTGTCATTAGAGCCAGGTTAAATCCTGGCTGTAAATCCAAG
 GGAATCTTCCCTCACGTCAGCACTATACG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217089 representing NM_001159553
 Red=Cloning site Green=Tags(s)

MDSAVSDPHNGSAEAGTPANGTTRPPSTPEGIALAYGSLLLMALLPIFFGALRSVRCARGKSSSDMPETI
 TSRDAARFPIIASCTLLGLYLFFKIFSQEYINLLL SMYFFVLGILALSHTIRSEGISRQPLKLLSQEPVQ
 GLGWEHGLLCHSEPLNPGCKIQGNLPSRQHYT

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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, 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
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]