

## Product datasheet for **MG222794**

### **Rnf13 (NM\_011883) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rnf13 (NM\_011883) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Rnf13  
**Synonyms:** 2010001H16Rik; Rz; Rzf  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222794 representing NM\_011883  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCTCTCCATTGGGATGCTCATGCTGTCCGCCACACAGGTCTACCCATCTTGACTGTGCAGCTCT  
TTGCATTCCTAAACCTGCTGCCTGTAGAAGCAGACATTTAGCATATAATTTGAAAATGCATCTCAGAC  
ATTTGAGGACCTCCAGCAAGATTTGGTTATAGACTACCAGCTGAAGGCTTAAAGGTTTTCTGATTAAC  
TCAAAACCAGAGAATGCGTGTGAACCCATAGTGCCTCCACCACTGAAAGACAATCTCCGGCACGTTCA  
TCGTGCTGATTAGAAGACTTGATTGCAATTTTGATATAAAGGTTTTAAATGCACAGAGAGCAGGATACAA  
AGCAGCCATAGTTCACAATGTAGACTCTGATGACCTGATTAGCATGGGATCCAACGACATTGATACACTA  
AAGAAAATTGACATTCGGTCTGTCTTTATTGGTGAATCATCAGCTAATCCCTGAAAGATGAATTCACAT  
ATGAAAAGGGGGCCACATTATCTTAGTTCAGAACTGAGTCTTCTTTGGAGTACTATCTGATCCCTT  
CCTCATCATAGTGGGCATCTGCCTCATCTTAATAGTCAATTTTCATGATCACAAAATTTGTTCCAGGACAGA  
CATAGAAACAGAAAGAAATAGACTTCGTAAGATCAACTTAAAAAATCCCGTACATAAAATTTAAAAAGG  
GAGATGAGTACGATGTGTGTGCTATCTGTCTGGAGGAGTGAAGACGGAGATAAGCTAAGGATCCTCCC  
CTGCTCCCATGGTATGAGTACTCACACAGTGCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222794 representing NM\_011883  
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MLLSIGMLMLSATQVYITLVQLFAFLNLLPVEADILAYNFENASQTFEDLPAFGYRLPAEGLKGFLLIN  
 SKPENACEPIVPPPLKDNSSGTFIVLIRRLDCNFDIKVLNAQRAGYKAAIVHNVSDDLISMGSNIDITL  
 KKIDIPSVFIGESSANSLKDEFTYEKGGHILVPELSLPLEYYLIPFLIIVGICLILIVIFMITKFVQDR  
 HRNRRNRRLRKDQLKKLPHKFKKGDEYDVCAICLEEYEDGDKLRILPCSHGMSTHTVL

TRTRPLE - GFP Tag - V

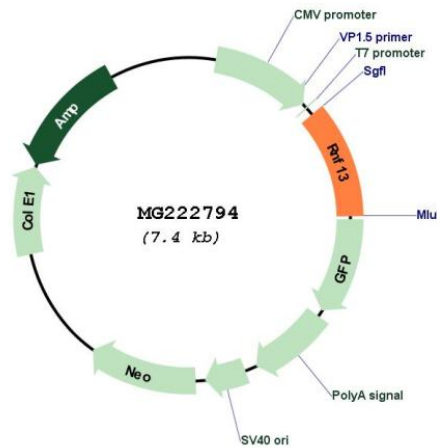
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_011883

**ORF Size:** 804 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011883.5</a>
<b>RefSeq Size:</b>	1116 bp
<b>RefSeq ORF:</b>	807 bp
<b>Locus ID:</b>	24017
<b>UniProt ID:</b>	<a href="#">O54965</a>
<b>Cytogenetics:</b>	3 D
<b>Gene Summary:</b>	This gene encodes a member of the PA-TM-RING family of proteins that contain a protease associated (PA) domain and a RING finger domain separated by a transmembrane (TM) domain. The encoded protein is an E3 ubiquitin ligase localized to the endosomal-lysosomal vesicles and inner nuclear membrane. Mice lacking the encoded protein have impaired learning abilities associated with a decreased synaptic vesicle density and dysregulated SNARE complex assembly. Alternative splicing of this gene results in multiple transcript variants. A pseudogene for this gene has been identified on the X chromosome. [provided by RefSeq, Jan 2015]