

## Product datasheet for RC200953L4V

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### TMEM108 (NM\_023943) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

**Product Type:** Lentiviral Particles

**Symbol:** TMEM108

**Synonyms:** CT124; RTLN

**Mammalian Cell:** Puromycin

**Selection:**

**Vector:** pLenti-C-mGFP-P2A-Puro (PS100093)

**Tag:** mGFP

**ACCN:** NM\_023943

**ORF Size:** 1725 bp

**ORF Nucleotide Sequence:** The ORF insert of this clone is exactly the same as (RC200953).

**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.

**RefSeq:** NM\_023943.1

**RefSeq Size:** 3847 bp

**RefSeq ORF:** 1728 bp

**Locus ID:** 66000

**UniProt ID:** Q6UXF1

**Cytogenetics:** 3q22.1



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1 / 2

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 59.9 kDa

**Gene Summary:** Transmembrane protein required for proper cognitive functions. Involved in the development of dentate gyrus (DG) neuron circuitry, is necessary for AMPA receptors surface expression and proper excitatory postsynaptic currents of DG granule neurons. Regulates the organization and stability of the microtubule network of sensory neurons to allow axonal transport. Through the interaction with DST, mediates the docking of the dynein/dynactin motor complex to vesicle cargos for retrograde axonal transport. In hippocampal neurons, required for BDNF-dependent dendrite outgrowth. Cooperates with SH3GL2 and recruits the WAVE1 complex to facilitate actin-dependent BDNF:NTRK2 early endocytic trafficking and mediate signaling from early endosomes.[UniProtKB/Swiss-Prot Function]