

Product datasheet for **MR207852L4V**

Tmprss2 (NM_015775) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Tmprss2 (NM_015775) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Tmprss2
Synonyms:	D16Ertd61e
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_015775
ORF Size:	1473 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR207852).
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_015775.2 , NP_056590.2
RefSeq Size:	3175 bp
RefSeq ORF:	1473 bp
Locus ID:	50528
UniProt ID:	Q9J1Q8
Cytogenetics:	16 57.53 cM



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Gene Summary:

Serine protease that proteolytically cleaves and activates the viral spike glycoproteins which facilitate virus-cell membrane fusions. The spike proteins are synthesized and maintained in precursor intermediate folding states and proteolysis permits the refolding and energy release required to create stable virus-cell linkages and membrane coalescence. Facilitates human SARS coronavirus (SARS-CoV) infection via two independent mechanisms, proteolytic cleavage of ACE2, which might promote viral uptake, and cleavage of coronavirus spike glycoprotein which activates the glycoprotein for cathepsin L-independent host cell entry. Proteolytically cleaves and activates the spike glycoproteins of human coronavirus 229E (HCoV-229E) and human coronavirus EMC (HCoV-EMC) and the fusion glycoproteins F0 of Sendai virus (SeV), human metapneumovirus (HMPV), human parainfluenza 1, 2, 3, 4a and 4b viruses (HPIV). Essential for spread and pathogenesis of influenza A virus (strains H1N1, H3N2 and H7N9) and is involved in proteolytic cleavage and activation of hemagglutinin (HA) protein which is essential for viral infectivity.[UniProtKB/Swiss-Prot Function]