

## Product datasheet for **MG208868**

### Plat (NM\_008872) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plat (NM_008872) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plat
Synonyms:	AU020998; AW212668; D8Ertd2; D8Ertd2e; t; t-; tPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208868 representing NM\_008872  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGAGAGAGCTGCTGTGTACTGCTGCTTTGTGGACTGGCTTTCCATTGCCTGACCAGGGAATAC  
 ATGGGAGGTTTCAAGAGAGGCCCGTCTACAGAGCGACTGCAGAGATGAGCCAACGCAGACAACCTTA  
 CCAACAGCACCAGTCGTGGCTCCGACCCATGCTCAGAAGCAGCCGGTGGAAATTGCGCGTGCAACAGC  
 GGCTGTGACAATGCCACTCAGTGCCTGTCCGAAGTTCAGCAGCAACCAAGATGCTTCAATGGGGGACGT  
 GTCAGCAGGCCCTGATTTCTCTGACTTTGTCTGCCAGTGCCTGATGGATTTGTAGGAAAACGCTGTGA  
 CATAGATACCAGAGCAACATGCTTTGAGGAGCAGGGCATCACCTACAGAGGCACGTGGAGCACAGCAGAA  
 AGTGGGGTGTGAGTGCATCAACTGGAATAGCAGTGTCTGTGCTGAAGCCCTACAATGCAAGGAGGCCAA  
 ATGCCATCAAGCTGGGCCTTGGGAATCACAACTACTGCAGAAACCCAGACCGAGACTTGAAGCCCTGGTG  
 CTATGTCTTTAAGGCAGGGAAGTATACCACGGAGTTCTGTAGCACACCAGCTTGCCTAAGGAAAAAGC  
 GAGGACTGCTATGTTGGGAAAGGTGTGACTTACCGTGGCACCCACAGCCTACCACATCCCAGGCCTCT  
 GCCTCCCCTGGAATTCATAGTCCCTCATGGCAAGAGTTACACAGCGTGGAGGACCAACTCCCAGGCACT  
 CGGCCTGGGCAGACACAATTATTGTGCGAATCCAGATGGTGTGATGCCAGACCTTGGTGCCATGTGATGAAG  
 GACCGAAAGCTGACGTGGGAATACTGTGACATGTCCCATGCTCCACCTGTGGCTGAGGCAGTACAAAAC  
 GGCCTCAGTTTAGAATTAAGGAGGACTCTACACAGACATCACCTCACACCCTTGGCAGGCTCCCATCTT  
 TGTCAGAACAAGAGGTCTCTGGAGAGAGATTCTTTGTGGAGGGGTGCTGATCAGTTCCTGCTGGGTG  
 CTGTGAGTGGCCACTGCTTTCTAGAGAGGTTCCCCCAATCATCTTAAAGTGGTCTTGGGAGAAAT  
 ACAGGTTGGTCCCCGGAGAGGAAGAAGACATTTGAGATTGAAAAATACATAGTCCATGAGGAATTTGA  
 TGACGATACTTATGACAACGACATCGCATTACTGCAGCTGAGGTACAGTCCAAGCAATGTGCCCAAGAG  
 AGCAGCTCTGTTGGCACTGCCTGCCTCCCTGACCCCAACCTGCAGCTCCCTGACTGGACAGAGTGTGAGC  
 TTTCTGGCTACGGCAAGCATGAGGCATCGTCTCCATTCTCTGACCGCTGAAGGAGGCTCACGTGAG  
 ACTGTACCCGTCAGCCGCTGCACCTCACAGCATCTGTTAATAAAACCGTCACGAAACAACATGCTGTGC  
 GCTGGAGACACCCGGAGCGGAGGCAACCAAGACCTCCACGATGCATGCCAGGGTACTCGGGAGGCCCTC  
 TGGTGTGCATGATCAATAAACAGATGACATTGACTGGCATTATCAGCTGGGGCTCGGCTGTGGGCAGAA  
 GGATGTGCTGGGTCTACACAAAGTTACGAATTACCTAGACTGGATTCAGACAACATGAAGCAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208868 representing NM\_008872  
 Red=Cloning site Green=Tags(s)

MKRELLCVLLLCGLAFPLPDQGIHGRFRRGARSYRATCRDEPTQTTYQQHQSWLRPMLRSSRVEYRCRNS  
 GLVQCHSVPVRSCEPRCFNGGTCQQALYFSDFCQCPDGFVVKRCDIDTRATCFEEQGITYRGTWSTAE  
 SGAECINWNSSVLSLKPYNARRPNAIKLGLGNHNYCRNPDRDLKPWCYVFKAGKYTFEFCSTPACPKGKS  
 EDCYVVGKGVTYRGTHSLTTSQASCLPWNSIVLMGKSYTAWRTNSQALGLGRHNYCRNPDGDARPWCHVMK  
 DRKLTWEYCDMSPCSTCGLRQYKRPQFRKGLYDITSHPWQAPIFVKNKRSPGERFLCGGVLISSCWV  
 LSAAHCFLEFPNHLKVVLRGTYRVVPGEEEQTFEIEKYIVHEEFDDDTYDNDIALLQLRSQKQCAQE  
 SSSVGTACLDPNLQLPDWTECELSGYGKHEASSPFFSDRLKEAHVRLYPSSRCTSQHLFNKTVTNMMLC  
 AGDTRSGGNQDLHDACQGDSSGGLVCMINKQMTLTGIIISWGLGCGQKDVPGVYTKVTNYLDWIHDNMKQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

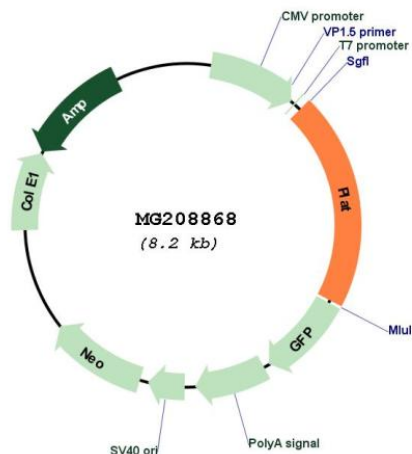
Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



<b>ACCN:</b>	NM_008872
<b>ORF Size:</b>	1677 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_008872.1</a> , <a href="#">NP_032898.1</a>
<b>RefSeq Size:</b>	2519 bp
<b>RefSeq ORF:</b>	1680 bp
<b>Locus ID:</b>	18791
<b>UniProt ID:</b>	<a href="#">P11214</a>
<b>Cytogenetics:</b>	8 11.42 cM
<b>Gene Summary:</b>	This gene encodes a key enzyme of the fibrinolytic pathway. The encoded protein undergoes proteolytic processing by plasmin to generate a heterodimeric serine protease that cleaves the proenzyme plasminogen to produce plasmin, a protease that is required to break down fibrin clots. Additionally, the encoded protein is involved in other biological processes such as synaptic plasticity, cell migration and tissue remodeling. Mice lacking the encoded protein display a reduction in long-term potentiation in hippocampus and conversely, transgenic mice overexpressing the encoded protein have increased and prolonged long-term potentiation. [provided by RefSeq, Jul 2015]