

Product datasheet for **MR208868**

Plat (NM_008872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plat (NM_008872) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plat
Synonyms:	AU020998; AW212668; D8Ertd2; D8Ertd2e; t; t-; tPA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208868 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGAGAGAGCTGCTGTGTACTGCTGCTTTGTGGACTGGCTTTCCATTGCCTGACCAGGGAATAC
 ATGGGAGGTTT CAGAAGAGGAGCCCGGTCTACAGAGCGACCTGCAGAGATGAGCCAACGCAGACAACCTTA
 CCAACAGCACCAGTCGTGGCTCCGACCCATGCTCAGAAGCAGCCGGTGGAAATTTGCCGGTGCAACAGC
 GGCTGTGTAATGCCACTCAGTGCCTGTCCGAAGTTGCAGCGAACCAAGATGCTTCAATGGGGGACGT
 GTCAGCAGGCCCTGTATTTCTCTGACTTTGTCTGCCAGTGCCTGATGGATTTGTAGGAAAACGCTGTGA
 CATAGATACCAGAGCAACATGCTTTGAGGAGCAGGGCATCACCTACAGAGGCACGTGGAGCACAGCAGAA
 AGTGGGGTGTGAGTGCATCAACTGGAATAGCAGTGTCTGTGCTGAAGCCCTACAATGCAAGGAGGCCAA
 ATGCCATCAAGCTGGGCCTTGGGAATCACAACTACTGCAGAAACCCAGACCGAGACTTGAAGCCCTGGTG
 CTATGTCTTTAAGGCAGGGAAGTATACCACGGAGTTCTGTAGCACACCAGCTTGCCTAAGGAAAAAGC
 GAGGACTGCTATGTTGGGAAAGGTGTGACTTACCGTGGCACCCACAGCCTACCACATCCCAGGCCCTCT
 GCCTCCCCTGGAATTCATAGTCCCTCATGGCAAGAGTTACACAGCGTGGAGGACCAACTCCCAGGCACT
 CGGCCTGGGCAGACACAATTATTGTGCGAATCCAGATGGTGTGATGCCAGACCTTGGTGCCATGTGATGAAG
 GACCGAAAGCTGACGTGGGAATACTGTGACATGTCCCATGCTCCACCTGTGGCTGAGGCGTACAAAAC
 GGCCTCAGTTTAGAATTAAGGAGGACTCTACACAGACATCACCTCACACCCTTGGCAGGCTCCCATCTT
 TGTCAGAACAAGAGGTCTCTGGAGAGAGATTCTTTGTGGAGGGGTGCTGATCAGTTCCTGCTGGGTG
 CTGTGAGTGCCTGCTTTCTAGAGAGGTTCCCCCAATCATCTTAAAGTGGTCTTGGGAGAAACAT
 ACAGGGTGGTCCCGGAGAGGAAGAAGACAGACATTTGAGATTGAAAATACATAGTCCATGAGGAATTTGA
 TGACGATACTTATGACAACGACATCGCATTACTGCAGCTGAGGTACAGTCCAAGCAATGTGCCAAGAG
 AGCAGCTCTGTTGGCACTGCCTGCCTCCCTGACCCCAACCTGCAGCTCCCTGACTGGACAGAGTGTGAGC
 TTTCTGGCTACGGCAAGCATGAGGCATCGTCTCCATTCTCTGACCGCTGAAGGAGGCTCACGTGAG
 ACTGTACCCGTCAGCCGCTGCACCTCACAGCATCTGTTAATAAAACCGTCACGAAACAACATGCTGTGC
 GCTGGAGACACCCGGAGCGGAGGCAACCAAGACCTCCACGATGCATGCCAGGGTACTCGGGAGGCCCTC
 TGGTGTGCATGATCAATAAACAGATGACATTGACTGGCATTATCAGCTGGGGCTCGGCTGTGGGCAGAA
 GGATGTGCTGGGTCTACACAAAGGTTACGAATTACCTAGACTGGATTCAGACAACATGAAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208868 protein sequence
 Red=Cloning site Green=Tags(s)

MKRELLCVLLLCGLAFPLPDQGIHGRFRRGARSYRATCRDEPTQTTYQQHQSWLRPMLRSSRVEYCRCNS
 GLVQCHSVPVRSCEPRCFNGGTCQQALYFSDFCQCPDGFVGRCDIDTRATCFEEQGITYRGTWSTAE
 SGAECINWNSSVLSLKPYNARRPNAIKLGLGNHNYCRNPDRDLKPWCYVFKAGKYTFEFCSTPACPKGKS
 EDCYVVGKVTYRTHSLTTSQASCLPWNSIVLMGKSYTAWRTNSQALGLGRHNYCRNPDGDARPWCHVMK
 DRKLTWEYCDMSPCSTCGLRQYKRPQFRKGLYTDITSHPWQAPIFVKNKRSPGERFLCGGVLISSCWV
 LSAAHCFLEFPNHLKVVLRGTYRVVPGEEEQTFEIEKYIVHEEFDDTDNDIALLQLRSQSKQCAQE
 SSSVGTACLDPNLQLPDWTECELSGYGKHEASSPFFSDRLKEAHVRLYPSRCTSQHLFNKTVTNMMLC
 AGDTRSGGNQDLHDACQGDSSGGLVCMINKQMTLTGIIISWGLGCGQKDVPGVYTKVTNYLDWIHDNMKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_008872

ORF Size: 1680 bp

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.

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:

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: [NM_008872.1](#), [NM_008872.2](#), [NM_008872.3](#), [NP_032898.1](#)

RefSeq Size: 2548 bp

RefSeq ORF: 1680 bp

Locus ID: 18791

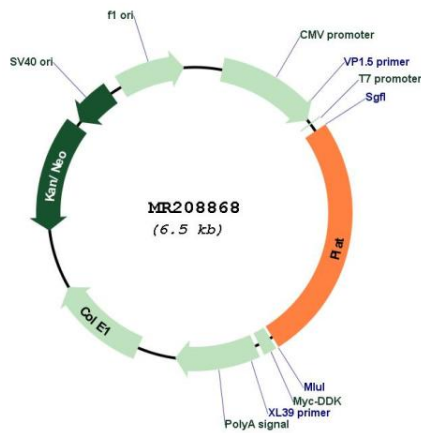
UniProt ID: [P11214](#)

Cytogenetics: 8 11.42 cM

MW: 63.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR208868