

Yersinia pestis Plasminogen Activator Gene Homolog in Rat Tissue

Technical Appendix

Primers Used in *Yersinia pestis* Plasminogen Activator Gene Homolog in Rat Tissues

Technical Appendix Table 1. Primers for amplification and sequencing of the plasminogen activator gene*

Forward primer	Sequence (5'→3')	Reverse primer	Sequence (5'→3')	Position†
<i>plasq</i> -f	ATGAAAATCAATCTGAGTGGACAGATCAC	<i>plasq</i> -r	CAGAAGCGATATTGCAGAC	6990–7602
<i>plasq2</i> -f	TAACTATTCTGTCCGGGAGT	<i>plasq2</i> -r	ATTATCATGTGCCCGAAC	6696–7339

**pla*, plasminogen activator/coagulase.

†Position in entry AF053945 from *Y. pestis* strain KIM5.

Technical Appendix Table 2. Primers for amplification and detection of conserved regions on plasmid pPCP1*

Forward primer	Sequence (5'→3')	Reverse primer	Sequence (5'→3')	Position†	Present in
pPratTr21-f	TCTCGGTTCCCTCAGGAG	pPratTr21-r	TGCACGTCATACTCTTTTTTCT	397–1021	Ype + Yps
pPratPst-f	GAGATGGAGAAAGACAGTGA	pPratPst-r	ATTTTAACAATCCACTATCGATA	4817–5699	Ype
pPratR1-f	AGGCCATGAACGACT	pPratR1-r	GATGGGAAATACAACTACGAAAATTA	2100–2826	Ype

*Ype, *Yersinia pestis*; Yps, *Yersinia pseudotuberculosis*.

†Position in entry AF053945 from *Y. pestis* strain KIM5.

Technical Appendix Table 3. Primers for genewalking

Primer	Sequence (5'→3')	Function
usPuTSP1	ATTTGGTATTAAGTGGATGAT	Upstream <i>Pla</i> TSP1 primer
us <i>Pla</i> TSP2	CTGCATTAGCACTCCCGGA	Upstream <i>Pla</i> TSP2 primer
us <i>Pla</i> TSP3	CCCGACAGAATAGTTATAATGG	Upstream <i>Pla</i> TSP3 primer
ds <i>Pla</i> TSP1	CCATTGATAAGAATAGTGGAGA	Downstream <i>Pla</i> TSP1 primer
ds <i>Pla</i> TSP2	TCTGTCTCTATTGGCGGAGA	Downstream <i>Pla</i> TSP2 primer
ds <i>Pla</i> TSP3	GCTGCCGGTATTTCCAATAA	Downstream <i>Pla</i> TSP3 primer

*Following the instructions of the DNA Walking SpeedUp Premix Kit (Seegene Inc.), gene-specific nested primers targeting the flanking regions of the *pla* gene were designed. These were used in combination with supplied primers for 3 consecutive rounds of PCR amplification. *Pla*, plasminogen activator/coagulase.

Technical Appendix Table 4. Primers for amplification of the concatenated *pla*-*rep* sequence*

Forward primer	Sequence (5'→3')	Reverse primer	Sequence (5'→3')	PCR product
us <i>Pla</i> TSP1	ATTTGGTATTAAGTGGATGAT	<i>Pla</i> Rep1	GGTAAATTTTCGTCGAAGTAT	Used for sequencing <i>pla</i> - <i>rep</i>
us <i>Pla</i> TSP1	ATTTGGTATTAAGTGGATGAT	<i>Pla</i> Rep2	TCATCCGTGTGATAGGGAC	Not formed
us <i>Pla</i> TSP1	ATTTGGTATTAAGTGGATGAT	<i>Pla</i> Rep3	GTCGCTCCAGTCAATCG	Not formed
us <i>Pla</i> TSP1	ATTTGGTATTAAGTGGATGAT	<i>Pla</i> Rep4	GGCGCGTTCTCACGG	Not formed
us <i>Pla</i> TSP1	ATTTGGTATTAAGTGGATGAT	<i>Pla</i> Rep5	ATCGCCCTGTAAGCCCATT	Not formed
us <i>Pla</i> TSP1	ATTTGGTATTAAGTGGATGAT	<i>Pla</i> Rep6	TCYTGCCAATAGCCC	Not formed

*Primers *Pla*Rep 2–6 were based on an alignment of conserved domains in enterobacterial *rep* genes. *Pla*, plasminogen activator/coagulase; *rep*, replicon.