International Journal of
Molecular Sciences

MDPI

Recombinant silk proteins with additional polyalanine have excellent mechanical properties

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This file includes:

Supporting Information

Original Images for Blots and Gels

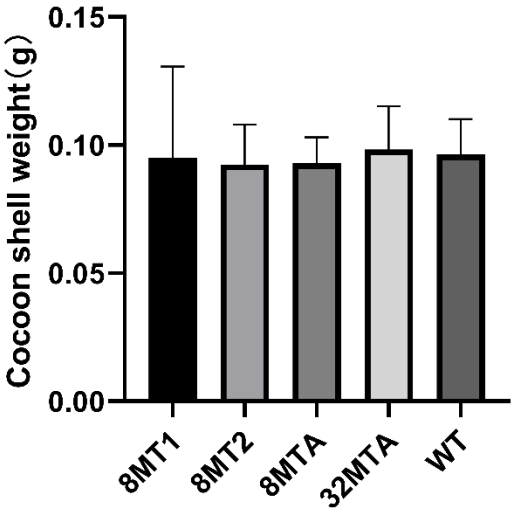


Figure S1. Cocoon shell weight of transgenic silkworm lineages and WT.

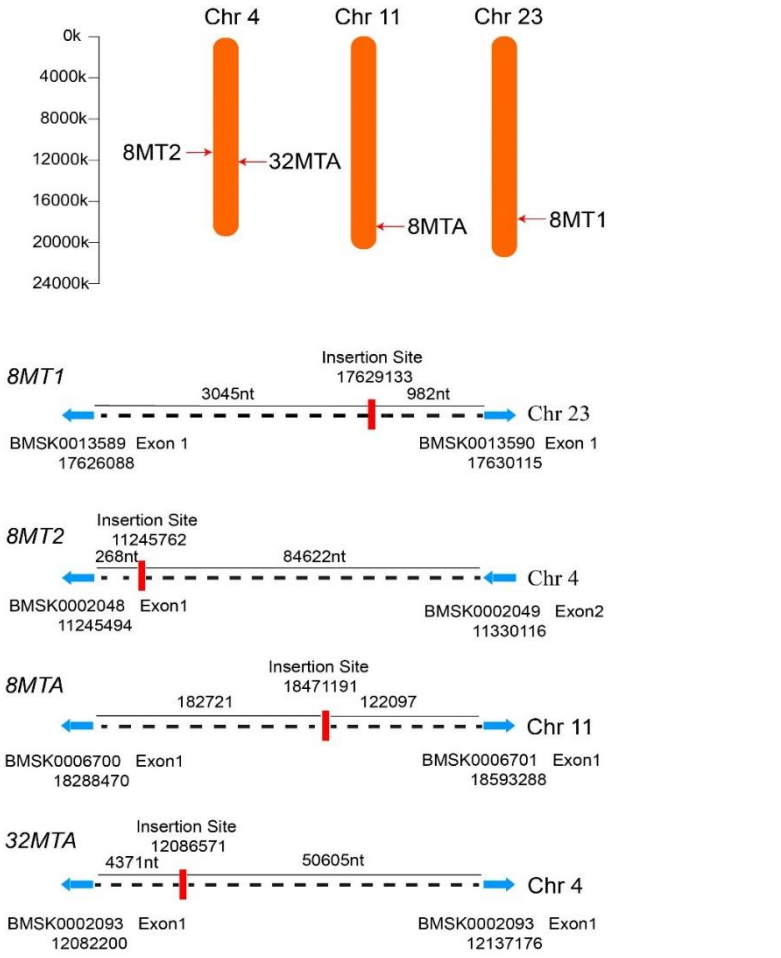


Figure S2. Genomic insertion sites of the four transgenic lineages.

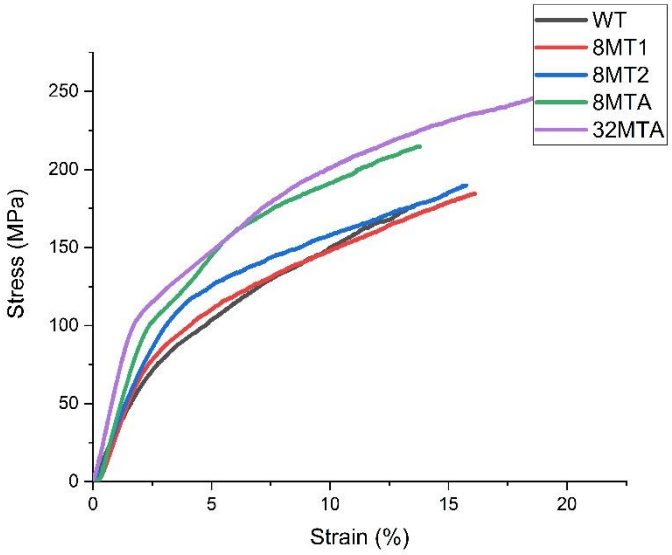


Figure S3. Stress–strain curves of WT and transgenic silk fibers.

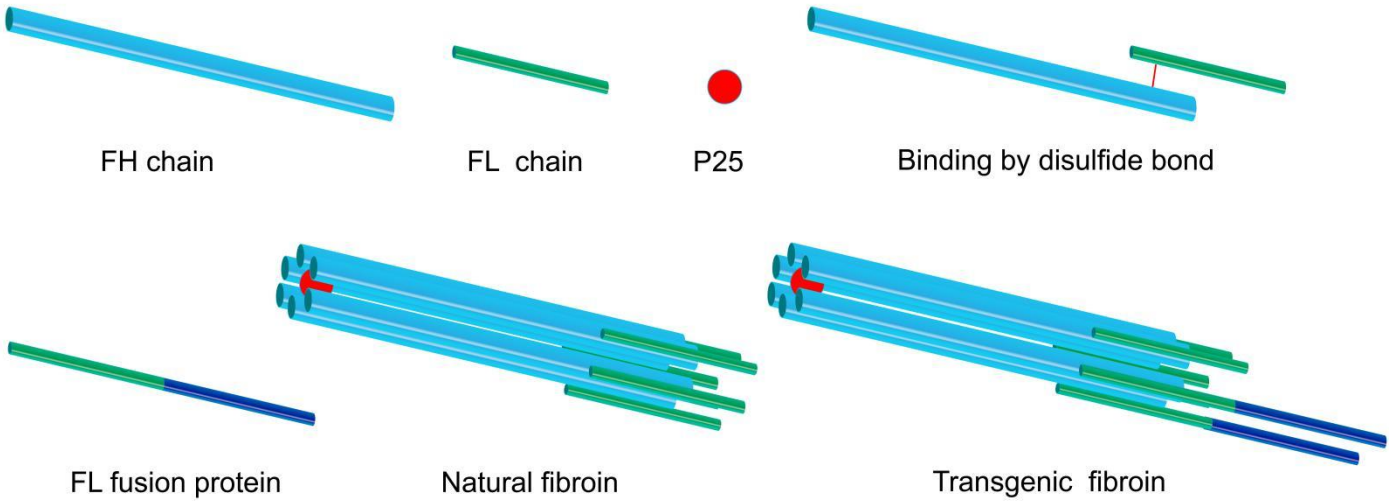


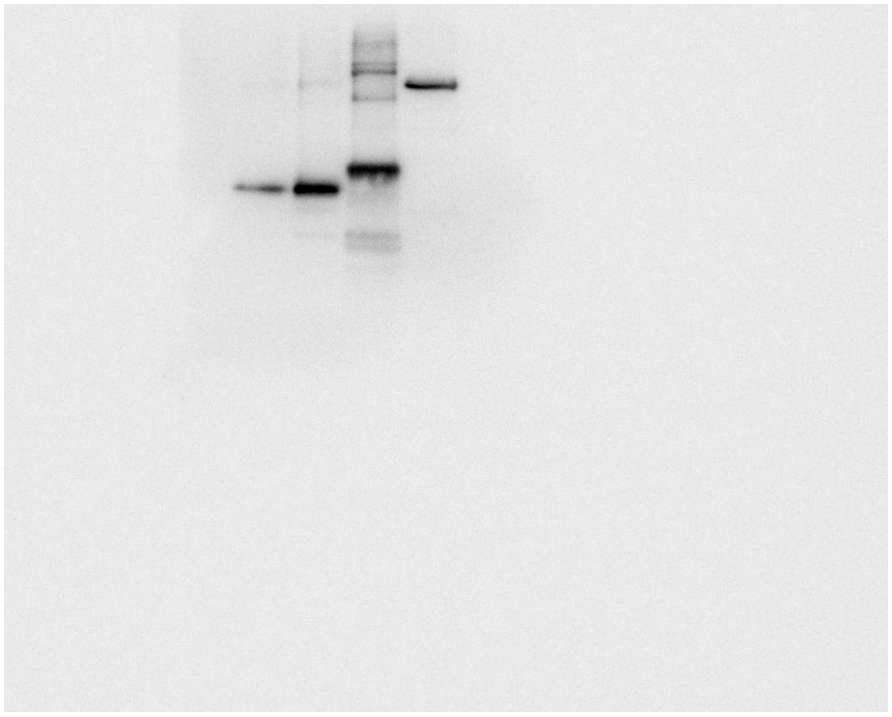
Figure S4. Model of natural silk elementary unit and transgenic silk elementary unit with fusion protein.

Table S1. The primers used in this study

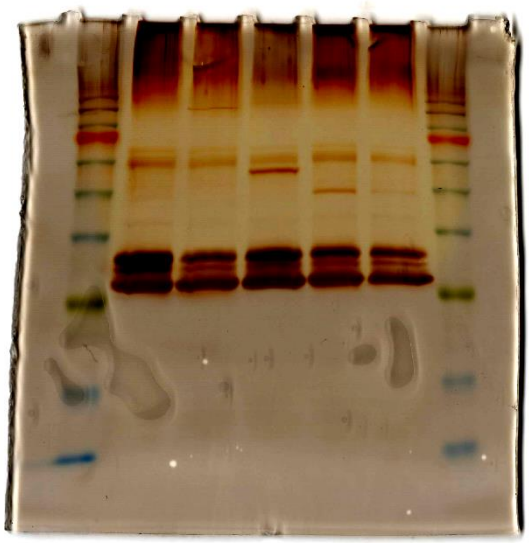
Primer name	Sequence (5'-3')
P-FL-4K-F	TTAATTAAGAATCCAAGTTAGTTCAAGGTCC
P-FL-4K-R	ACTAGTTTTAGTGGTCTGTTATGTGACC
P-FL-1K-F	TTAATTAAGAGAAAATGCTCCACGTGAGTT
P-FL-1K-R	ACTAGTTTTAGTGGTCTGTTATGTGACC
L-reverse-1-F	GACAAGCACGCCTCAGCC
L-reverse-1-R	TGAGTCAAAATGACGCATGATTATC
R-reverse-1-F	TCTGTATATCGAGGTTTATTTA
R-reverse-1-R	CCGATAAAAACACATGC
L-reverse-2-F	GCTCCAAGCGGCGACTG
L-reverse-2-R	GGGATGTTCTTTAGACGATGAGC
R-reverse-2-F	ACTCAAAATTTCTTCTAAAGTAACAA
R-reverse-2-R	CTTTAACGTACGTCACAATATG

Original images for blots and gels

The unprocessed original images for blots and gels of Figure 3



The original images for blots of Figure 3



The original images for silver staining of Figure 3