

Table S1. Primers (5' to 3') used in this study

Forward	Reverse
Construction of UAS-Slow-HA*	
GGGGACAAGTTGTACAAAAAAAGCAGGCTTGATGCCAGAAATGATT TACTCG	GGGGACCACTTGTACAAGAAAGCTGGTCGGGCAATTGG CATTGGGCC
Construction of TspAD-GFP†	
GGGGACAAGTTGTACAAAAAAAGCAGGCTTCATGAATTGGACGCGC GTGCTG	GGGGACCACTTGTACAAGAAAGCTGGTAGTCCTGCAACTC CACCTTCGTC
Construction of TspNTD-GFP‡	
GGGGACAAGTTGTACAAAAAAAGCAGGCTTCATGAATTGGACGCGC GTGCTG	GGGGACCACTTGTACAAGAAAGCTGGGTATGAGGGGCACG GTGTGTCCAGGC
Construction of SP-Tsp-CTD-GFP§	
GGGGACAAGTTGTACAAAAAAAGCAGGCTTCATGAATTGGACGCGC GTGCTGTTAACGGGTTGACCGCCTGGCGCTGACATTGTTGGATGTT GCATCACTCACTCGATCCAGTTGCTCTGCTGCCAGTGCCTCCAG GTTGGCTATCCG	GGGGACCACTTGTACAAGAAAGCTGGTAGTCCTGCAACTC CACCTTCGTC
Site-directed mutagenesis for construction of SP-TspCTD^{KGD>LGE}-GFP¶	
First round: KGD>KGE CGGAATGGCAAGGGTGAGTCTTGCAGAGATG	CATCTTCGCAAGACTCACCCCTGCCATTCCG
Second round: KGE>LGE GACTTCAATCGGAATGGCTGGGTGAGTCTTGCAGAG	CTTCGCAAGACTCACCCAGCCATTCCGATTGAAGTC
PCR verification of the generation of the slow mutant**	
Reaction 1 AATGATTCCAGTGGAAAGGCT	GACGCATGATTATCTTACGTGAC
Reaction 2 GTGCAGAGAGTGCAGAGATGATCC	
RNA probe against slow††	
GGGTAACGCCAGGGTTTCC	ATGACCATGATTACGCCAACG

*UAS-Slow-HA was produced by PCR on the LD16414 EST (*Drosophila* Genomics Resource Center).

†The TspAD-GFP construct was produced using UAS-TspAD as a PCR template.

‡TspNTD-GFP is GFP-tagged N-terminal part of Tsp (amino acids 1-390).

§SP-Tsp-CTD-GFP is GFP-tagged C-terminal part of Tsp (amino acids 391-1061, including the Tsp signal peptide). The forward primer contains the attB recombination site followed by the Tsp signal peptide sequence and a segment from the beginning of TspCTD.

¶The SP-TspCTD^{KGD>LGE}-GFP construct was produced from the non-mutated construct in two rounds of site-directed mutagenesis using the QuickChange II site-directed mutagenesis kit (Stratagene, USA).

**In order to verify the generation of the slow mutant, two PCR reactions were performed: reaction 1, using primers representing the resulting hybrid P element; reaction 2, a subsequent PCR using the same reverse primer and a forward primer from genomic sequence.

††PCR reaction was performed on the LD16414 plasmid (*Drosophila* Genomics Resource Center). The PCR fragment was used as a template for a transcription reaction.