

Table S3 List of published lepidopteran Z-linked genes (excluding *B. mori*).

Species →	<i>Samia cynthia ricini</i>	<i>Antheraea pernyi</i>	<i>Manduca sexta</i>	<i>Agrilus convolvuli</i>	<i>Biston betularia</i>	<i>Ostrinia nubilalis</i>	<i>Heliconius melpomene</i>	<i>Bicyclus anyranana</i>	<i>Papilio glaucus + canadensis</i>	<i>Cydia pomonella</i>	<i>Pirella xylostella</i>
Gene ↓											
<i>laminin A</i>					LM, FISH						
<i>kettin</i>	FISH [1]				FISH	LM [4,5]			Inh [10]		
<i>titin</i>			FISH [3]	FISH [3]					Inh [10]		
<i>ATP-binding cassette sub-family F member 2 (ABCF2)</i>					LM, FISH						
<i>tan</i>					LM, FISH						
<i>imaginal disc growth factor (idgf) (BaC2115)</i>					LM, FISH			LM [9]			
<i>tyrosine hydroxylase (TH)</i>					LM						
<i>Paramyosin</i>					LM, FISH	LM [4]					
<i>period</i>		South [2]			LM, FISH				Inh [10]	South [12]	
<i>6-phosphogluconate dehydrogenase (6-PGD)</i>					LM, FISH				Inh [11]		
<i>triosephosphate isomerase (tpi)</i>					LM	LM [5,6]	LM [7]	LM [8]	Inh [10]		
<i>lactate dehydrogenase (Ldh)</i>					LM, FISH	LM [4,5]			Inh [10,11]		
<i>Henna (PAH)</i>					LM, FISH			LM [9]			
<i>Y-box protein (BYB)</i>	FISH [1]										
<i>catalase</i>								LM [9]			LM [13]
<i>ephrin receptor</i>			FISH [3]	FISH [3]							
<i>epidermal growth factor receptor (EGF rec)</i>			FISH [3]								
<i>NADH dehydrogenase (ubiquinone)</i>			FISH [3]	FISH [3]							
<i>P-glycoprotein</i>			FISH [3]	FISH [3]							
<i>apterous</i>							LM [7]				
<i>acid phosphatase (Acp)</i>									Inh [11]		
<i>shaker</i>											
<i>MiniParamyosin</i>											
<i>FK506-binding protein</i>											
<i>Cuticular protein</i>											
<i>Coatomer protein subunit</i>											
<i>Stretchin</i>											LM [13]
<i>MYST histone acetyltransferase (MOF) (BaC1211)</i>								LM [9]			
<i>BaC2745</i>								LM [9]			
<i>BaC2817</i>								LM [9]			
<i>BaC4049</i>								LM [9]			
<i>BaC5197</i>								LM [9]			
<i>BaC5904</i>								LM [9]			

Gene names are listed in the first column with alternative identifiers or frequently used abbreviations in brackets. Methods used to confirm Z-linkage are abbreviated as: FISH (fluorescence in situ hybridization); South (Southern hybridization); LM (linkage mapping); Inh (hemizygous inheritance). References are numbered in square brackets and listed in full below the table; all *B. betularia* data originate from this study. Only confirmed Z-linked genes are given in *O. nubilalis* and only the two genes specifically mentioned in the text are included for *P. xylostella* since only uniref90 best hits are available for this species. All except two genes (31/33) are also Z-linked in *B. mori*. *MYST histone acetyltransferase* (BGIBMGA006995) is located on chromosome 17 in *B. mori* and the identity of *Papilio spp. acid phosphatase* is unclear; however no *acid phosphatase* homologs occur on the Z-chromosome scaffolds of *B. mori*.

References

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