

GENETICS

Supporting Information

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Domains of HP1 Required for *Drosophila melanogaster* Heterochromatin Spreading

**Karrie A. Hines, Diane E. Cryderman, Kaitlin M. Flannery, Hongbo Yang,
Michael W. Vitalini, Tulle Hazelrigg, Craig A. Mizzen, and Lori L. Wallrath**

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TABLE S1**Summary of ChIP analyses for reporter transgenes inserted at 87C1**

0BTether	<i>rp49</i> (negative control)			<i>cdc2</i> (positive control)			<i>hsp26-tag</i>			<i>hsp70-white</i>		
	1B87C1	4BGFP	5BHP1	H3K9me	6BGFP	7BHP1	mK9H3	8BGFP	9BHP1	mK9H3	10BGFP	11BHP1
none	0.08U±U0.05	0.03U±U0.02 (0.48)	0.06U±U0.04 (0.73)	0.14U±U0.06	1.03U±U0.33 (0.10)	2.00U±U0.91 (0.18)	0.09U±U0.06	0.18U±U0.05 (0.29)	0.17U±U0.07 (0.41)	0.08U±U0.06	0.12U±U0.05 (0.06)	0.16U±U0.07 (0.43)
HP1	0.07U±U0.02	0.09U±U0.04 (0.59)	0.06U±U0.02 (0.91)	0.14U±U0.08	1.28U±U0.39 (0.10)	3.44U±U1.16 (0.10)	0.22U±U0.04	2.08U±U0.91 (0.18)	3.37U±U0.04 (0.09)	0.34U±U0.19	2.18U±U0.79 (0.15)	1.74U±U0.06 (0.02)
I191E	0.08U±U0.02	0.02U±U0.01 (0.86)	0.13U±U0.12 (0.46)	0.15U±U0.06	1.20U±U0.12 (0.01)	2.16U±U0.18 (0.01)	0.27U±U0.21	2.69U±U1.00 (0.26)	5.70U±U3.17 (0.32)	0.05U±U0.01	0.13U±U0.07 (0.39)	0.16U±U0.13 (0.50)
W200A	0.19U±U0.01	0.04U±U0.02 (0.21)	0.01U±U0.01 (0.59)	0.30U±U0.16	1.17U±U0.08 (0.01)	1.36U±U0.19 (0.01)	0.19U±U0.09	3.38U±U1.14 (0.10)	4.00U±U1.5 (0.10)	0.03U±U0.01	0.07U±U0.04 (0.53)	0.13U±U0.01 (0.24)

Antibodies to GFP, HP1 and di-methylH3K9 (H3K9me) were used for ChIP.

p values are listed in parentheses below the relative percent enrichment.

TABLE S2**Summary of ChIP analyses for reporter transgenes inserted at 4D5**

2BTether	<i>rp49</i> (negative control)			<i>cdc2</i> (positive control)			<i>hsp26-tag</i>			<i>hsp70-white</i>		
3B87C1	12BGFP	13BHP1	mK9H3	14BGFP	15BHP1	mK9H3	16BGFP	17BHP1	mK9H3	18BGFP	19BHP1	mK9H3
none	0.16U±U0.03	0.30U±U0.15 (0.47)	0.22U±U0.8 (0.60)	0.25U±U0.02	2.54U±U0.11 (0.01)	3.27U±U2.20 (0.31)	0.20U±U0.10	0.05U±U0.17 (0.23)	0.24U±U0.17 (0.85)	0.23U±U0.08	0.55U±U0.14 (0.49)	0.45U±U0.16 (0.04)
HP1	0.16U±U0.12	0.23U±U0.12 (0.46)	0.10U±U0.04 (0.64)	0.00U±U0.01	4.80U±U2.47 (0.24)	2.30U±U1.30 (0.09)	0.23U±U0.15	2.05U±U0.05 (0.01)	3.55U±U0.96 (0.10)	0.16U±U0.05	2.37U±U0.33 (0.01)	1.58U±U0.42 (0.03)
I191E	0.06U±U0.03	0.13U±U0.08 (0.28)	0.00U±U0.01 (0.84)	0.47U±U0.28	5.26U±U2.20 (0.06)	2.35U±U0.15 (0.01)	0.88U±U0.01	3.57U±U0.68 (0.07)	4.10U±U0.10 (0.28)	0.01U±U0.01	0.55U±U0.08 (0.14)	0.45U±U0.15 (0.31)
W200A	0.04U±U0.01	0.14U±U0.07 (0.29)	0.01U±U0.01 (0.34)	0.07U±U0.02	1.37U±U0.26 (0.04)	1.63U±U0.42 (0.19)	0.36U±U0.05	1.29U±U0.43 (0.16)	6.00U±U2.00 (0.10)	0.35U±U0.16	0.22U±U0.14 (0.57)	0.29U±U0.23 (0.83)

Antibodies to GFP, HP1 and di-methylK9H3 (mK9H3) were used for ChIP.

p values are listed in parentheses below the relative percent enrichment.