

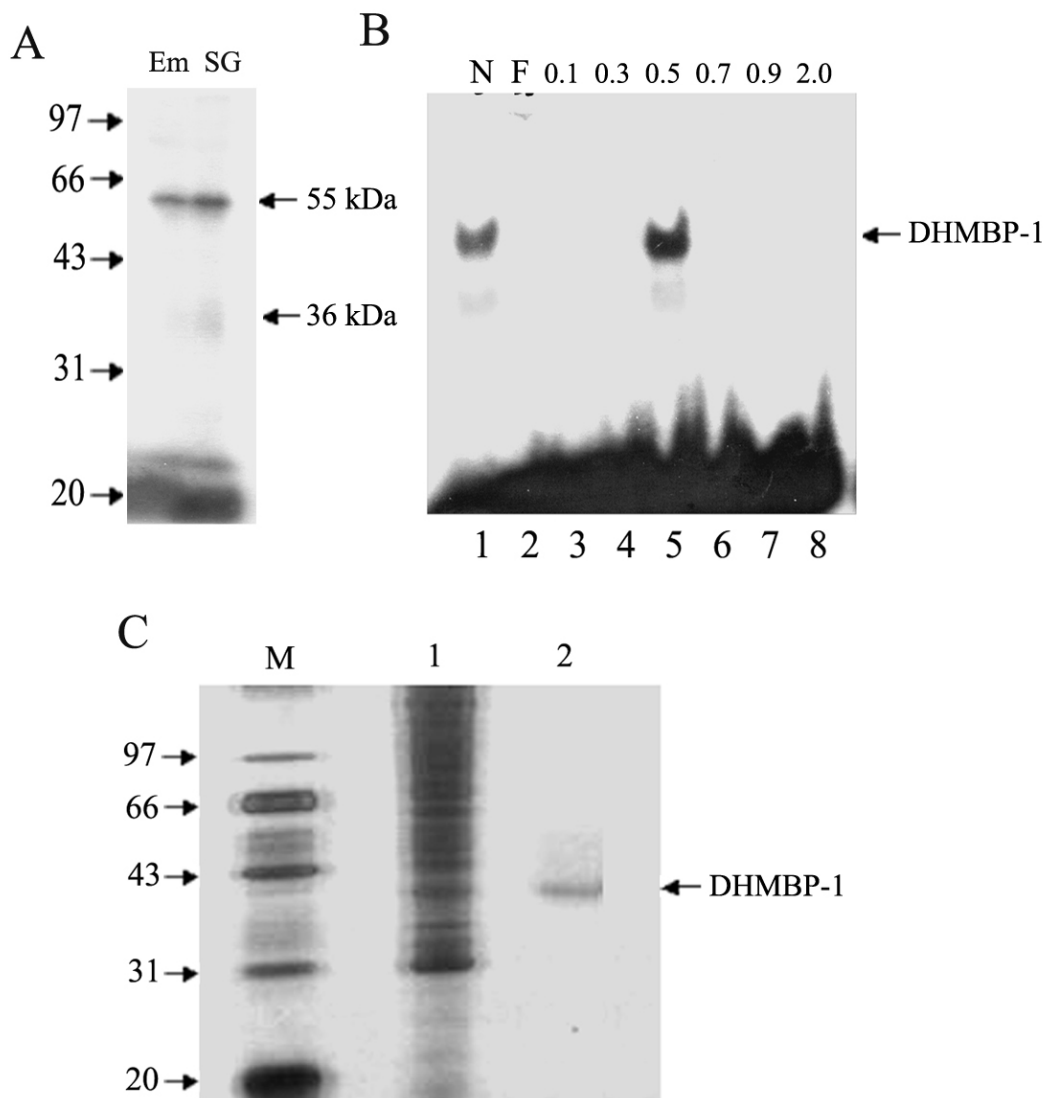
## Supplemental Data

**Fig.1. Molecular mass of DHMBP-1 determined by UV cross-linking and partial affinity purification.** (A) UV cross-linking. The nuclear extracts of embryo (Em) and SG were UV cross-linked with S1, and the complexes were separated by SDS-PAGE. The molecular marker is shown on the left. Two bands were observed, as indicated by the arrows on the right. After correction for bound oligonucleotide, the molecular mass for protein 1 is about 40 kDa, and for protein 2 is about 20 kDa. (B) DHMBP-1 binding activity of eluted fractions from DNA affinity column. Presence of DHMBP-1 in different fractions obtained by affinity column was checked using EMSA with labeled S1. N represents EMSA reaction with the loaded fraction, F represents the flow-through fraction, and the numbers on top represent the fractions eluted by different concentrations of KCl (0.1 to 2.0 M). (C) SDS/PAGE and silver staining of DHMBP-1 positive fraction. M represents the molecular mass markers. Lane 1 represents the nuclear extract purified by sephacryl S-300 column, and lane 2 represents the concentrated fraction from affinity column with high DHMBP-1 binding activity.

## **Fig.2. Sequence comparison between POU-M1, POU-M2 and Har-POU**

Comparison of the deduced amino acid sequence of POU-M2, POU-M1, and Har-POU cloned from *H. armigera*. Asterisks show the identical amino acids. The POU specific- and homeo-domains are underlined. The 28 amino acids (amino acid 109-136 of POU-M2) which are various between POU-M1 and POU-M2 are specified by shaded black if more than two amino acids are the same in one position.

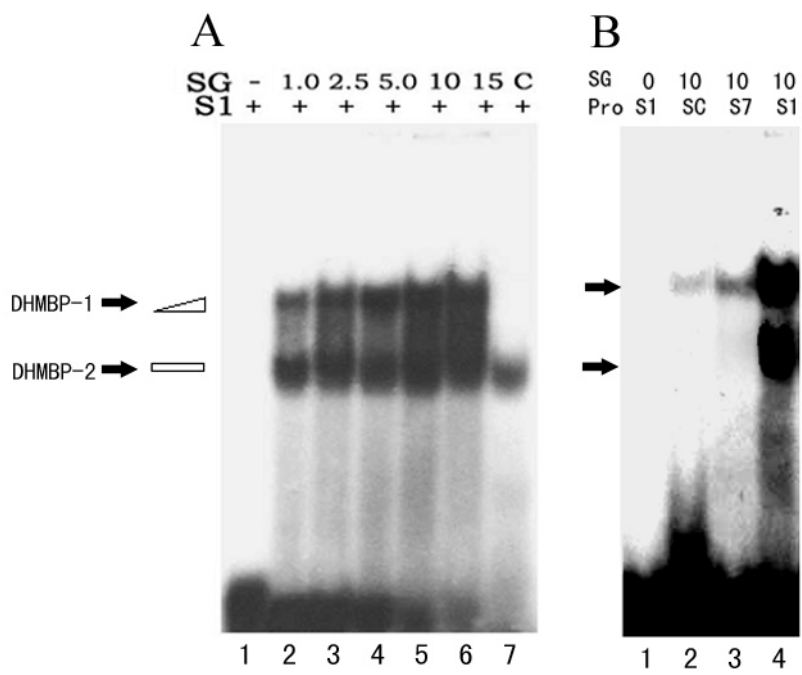
**Fig.3. DHMBP-2 enhanced the binding of DHMBP-1.** (A) Probe S1 was incubated with increasing amounts ( $\mu\text{g}$ ) of nuclear protein extracts from SG of day 1 pupae. C, cytoplasm protein extract. (B) Probes S1, S7 and SC were incubated with 10  $\mu\text{g}$  nuclear protein extracts from SG of day 1 pupae. pro, probe.



**Figure 1**

Har-POU	MAATTYMPADMDLGD I GGYHAASPRSAEPADMKYQHGLHAGGSPSPGAPVL-NPWTSLPP	59
POU-M2	MAATTYMPAEMELGN I GGYHAASPRSAEPADMKYQHPLHSGGSPSPGAPV I GNPWTSLPP	60
POU-M1	MAATTYMPAEMELGN I GGYHAASPRSAEPADMKYQHPLHSGGSPSPGAPV I GNPWTSLPP	60
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Har-POU	ADPWAMHQHHAHAHQPDVKPPPAPHEHRHLQHG--GWHAPVVS PHYGAGTPVALHGGYPM	117
POU-M2	ADPWAMHQHHAHAHAHQPDVKPPPAPHDHRHLQHAAGWHAPVVS PHYGAGSPVTLHGGYPM	120
POU-M1	ADPWAMHQHHAHAHAHQPDVKPPPAPHDHRHLQHAAGWHAPVVS PHYGAARPSHCMEDTQC	120
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Har-POU	PMHQHMLRD I QPSPHLHHHAMERPEEDTPTSDDLEAFKQFKQRR I KLGFTQADVG	177
POU-M2	PVHQHMLRD I QPSPHLHHHAMERDQPEEDTPTSDDLEAFKQFKQRR I KLGFTQADVG	180
POU-M1	PCTNT I CSETSSPR-DPLHHHAMERDQPEEDTPTSDDLEAFKQFKQRR I KLGFTQADVG	179
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**Figure 2**



**Figure 3**