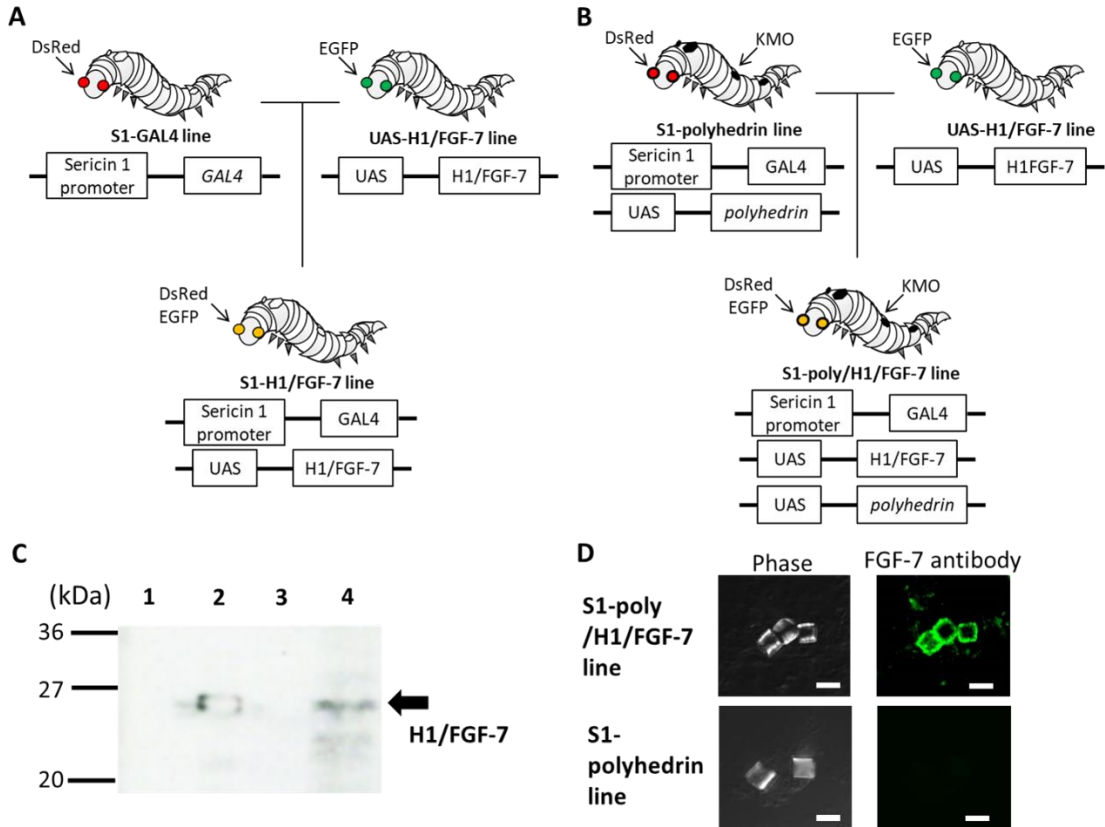


1 **SUPPLEMENTAL RESULTS**



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3 **Supplemental Figure S1.** Generation of transgenic silkworms expressing H1/FGF-7 in
4 the MSG. A) Generation of the S1-H1/FGF-7 line. The S1-GAL4 line (30) was mated
5 with the UAS-H1/FGF-7 line to generate the S1-H1/FGF-7 line with EGFP and DsRed
6 expression in the eyes. B) Generation of the S1-poly/H1/FGF-7 line. The S1-polyhedrin
7 line was mated with the UAS-H1/FGF-7 line to generate the S1-poly/H1/FGF-7 line with
8 EGFP and DsRed expression in the eyes and KMO-specific skin (7). C) Immunoblotting
9 analysis of H1/FGF-7 expression in MSGs with 12.5% SDS-PAGE and anti-FGF-7
10 antibodies. Lane 1 and 2: Protein from 50,000 cubes of empty polyhedra (negative
11 control) and FGF-7-polyhedra (positive control) produced in baculovirus-infected Sf21
12 cells, respectively; Lanes 3 and 4: Immunoprecipitated protein from 50 mg MSGs from
13 *w1-pnd* and S1-H1/FGF-7 larvae, respectively. Protein size markers are indicated. D)
14 Confocal immunofluorescence microscopy analysis of H1/FGF-7 on polyhedra.
15 Polyhedra collected from S1-poly/H1/FGF-7 or S1-polyhedrin larvae MSGs were fixed
16 on a glass-based dish and examined by an immunofluorescence with an anti-FGF-7
17 antibody. Scale bars, 10 μ m.

19 **Supplemental Table S1.** Inverse PCR of the UAS-H1/FGF-7 transgene border
20 sequence in the *w1-pnd* genome and sequence analysis with the Kaikoblast database
21 (<http://kaikoblast.dna.affrc.go.jp>). The chromosome number and clone name are listed for
22 the border sequence. The TTAA consensus sequence appearing at the border of the
23 *piggyback*-driven transgene is underlined.

Silkworm line	Sequence at the transgene border	Chromosome no. (clone name)
UAS-H1/FGF-7	CAAGAATAT <u>TTAA</u> (transgene) <u>TTAATAA</u> ACTACCA	Chromosome 8 (Bm_scaf51)

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