



Figure S3 The *yar* promoter (*yarP*) does not act as enhancer blocker in transgene assays. Two enhancer blocking reporter transposons were tested. In *P[*yarP*-white enhancer blocking (WEB)]*, the enhancer blocking w reporter gene carried *yarP* inserted between direct repeats of loxP sites (white arrowheads), positioned either between the eye enhancer (E) and w promoter. In *P[*yarP*-WEB]*, the *y* gene was used as a transformation marker. In *P[*YEB*]*, the enhancer blocking *y* reporter gene carried *yarP* inserted between the wing (W) and body (B) enhancers and promoter of the *y* gene, which also carried the downstream bristle (Br) and tarsal claw (Tc) enhancers. Eye pigmentation was scored in seven transgenic *P[WEB]* lines, where 1 represents white eyes and 5 represents red pigmentation. In all lines, high levels of pigmentation were found (scores of 3, 4), implying no block of the w eye enhancer (no block). Cuticle pigmentation in ten transgenic *P[*YEB*]* lines was scored, where 1 represents light yellow color of a null and 5 represents black pigmentation of wild type flies. In six lines, dark pigmentation (scores of 4 wing, 4 body) was found. In four lines, light pigmentation (scores of 2 wing, 2 body) was observed. Lines established from these four lines that lacked *yarP* also showed light pigmentation (bottom arrow), indicating no block of the *y* enhancers.