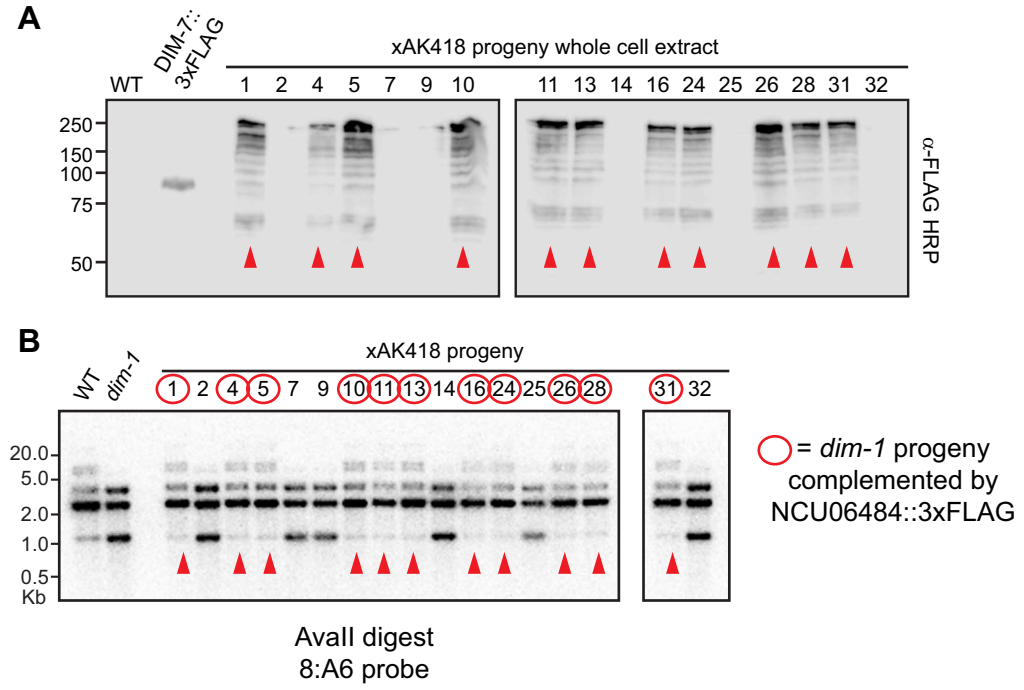

Figure S2: Complementation of a mutation of a UV generated* dim-1 *strain with an ectopic copy of the NCU06484 gene. A female strain bearing an ectopic allele of NCU06484::3xFLAG in a ΔNCU06484::hph deletion background was crossed to a male *his-3*$^{+}$*; dim-1* (UV allele) strain in cross xAK418. Progeny were germinated on non-selective plates (thereby allowing growth of all progeny), and hygromycin sensitive progeny bearing the LGIII from the *dim-1* male parent, were examined (A) for the presence of the NCU06484::3xFLAG construct by western blotting with anti-FLAG-HRP antibodies and (B) for cytosine methylation levels by Southern hybridization of genomic DNA digested with the methylation sensitive restriction enzyme AvaII, probing for the heterochromatic region 8:A6 (Selker et al. 2003). Red arrowheads mark the progeny expressing NCU06484::3xFLAG, and red circles mark the progeny with WT levels of cytosine methylation. Of the hygromycin-sensitive progeny, only those expressing the NCU06484::3xFLAG construct showed a rescue of the DNA methylation phenotype.