

Supplemental Figure: Alternate method for visual quantification of grooming behavior using NIH Image J pixel intensity software.

A) Visualization of wildtype *Drosophila* under dissecting scope. Oval defines dorsal abdomen as the region of analysis for pixel intensity. B) Visualization of dorsal abdomen after dusting with Ultra Green V10 fluorescent paint pigment. Standard filter for Green fluorescence captures the blue-green pigment. C) Wildtype animal after coating with UGV10 pigment (pre-grooming). F) Wildtype animal after coating with UGV10 pigment (post-grooming). D) *DopR*<sup>f02676</sup> homozygous mutant after coating with UGV10 pigment (pre-grooming). F) *DopR*<sup>f02676</sup> homozygous mutant after coating with UGV10 pigment (post-grooming). G) Quantification of pixel intensity for all conditions. n= 15 flies for each genotype or condition. Statistical analyses by One Way ANOVA and Bonferonni Correction. ns = non-significant difference. \*\*\* represents a  $p < 0.001$ .

Supplemental Figure

