

Supplementary Information

Straight and rigid flagellar hook made by insertion of the FlgG specific sequence into FlgE

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Movie S1 Free swimming of SJW1103 (WT) stained with a Cy3 mono-reactive dye in liquid media.

Movie S2. Free swimming of MME1001(*flgE*_{+GSS}) stained with a Cy3 mono-reactive dye in liquid media.