Fig. S1. Lipolytic activity towards trioleoylglycerol (TAG), dioleoylglycerol (DAG) or monooleoylglycerol (MAG) of COS-7 cells transiently transfected with constructs expressing β-gal (LZ), hormone sensitive lipase (HSL) or MGI:1916082. Please note that the β-gal and HSL measurements are identical with the ones shown in Fig. 5G.

Fig. S2. Drosophila Kc167 cells incubated with 400 μM OA were mock treated or incubated with dsRNAs targeting CG9186-encoding transcripts (DRSC29932 or DRSC08637) for six days. LDs were visualized by BODIPY493/503. The knockdown of CG9186 in the tissue culture cells has no clear-cut effect on storage lipid levels. Scale bars: 15 μm.
Movie 1. Time-lapse movie of CG9186 expressing cells incubated in the presence of oleic acid to induce lipid droplets.