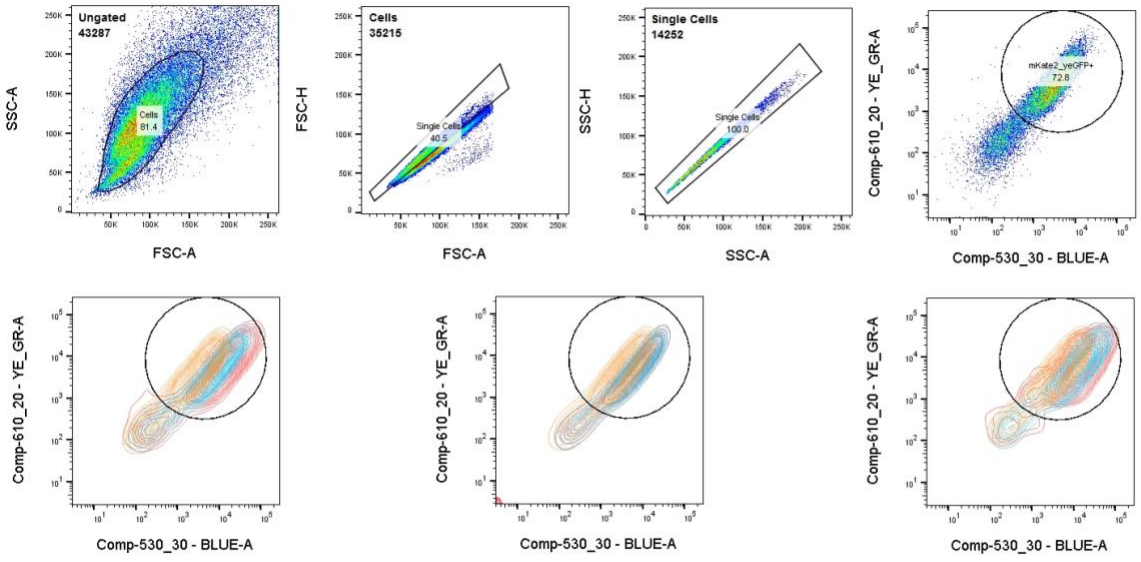

WELL ID	Median : Comp-530_30 - BLUE-A	Median : Comp-610_20 - YE_GR-A
SM/0	1963	2527
SM/0.125	5291	2778
SM/0.25	8821	3469

WELL ID	Median : Comp-530_30 - BLUE-A	Median : Comp-610_20 - YE_GR-A
SM+K/0	2199	2816
SM+K/0.125	4579	2872
SM+K/0.25	4641	2832

WELL ID	Median : Comp-530_30 - BLUE-A	Median : Comp-610_20 - YE_GR-A
SM+D/0	3626	3460
SM+D/0.125	9722	3931
SM+D/0.25	10450	4654

Supplementary Figure 1: Gating strategy for NADPH sensor experiments.
Top row indicates gating strategy for BY4741 strain complemented with pH,L,M and pU-mKate2-yeGFP NADH sensor plasmids. A threshold exclusion of 5000 was set on the cytometer, then FSC-A vs SSC-A was used to identify the main population. Doublet discrimination was performed using FSC-A vs FSC-H followed by SSC-A vs SSC-H. Then, cells that were double positive for mKate2 (Comp-610_20-YE_GR-A) and yeGFP (Comp-530_30-BLUE-A) were gated. Bottom row shows representative overlay plots of final gated population treated with 0, 0.125 and 0.25 H_2O_2 as indicated for SM alone and supplemented with L or D-lysine respectively (K or DK). Tables indicate the median fluorescence intensity (MFI) for each channel in the double positive population. Auxotrophic and prototrophic strains were gated by the same strategy. FSC: forward scatter, SSC: side scatter, A: area, H: height, Comp: compensated, YE_GR: yellow-green laser, SM: synthetic minimal media.