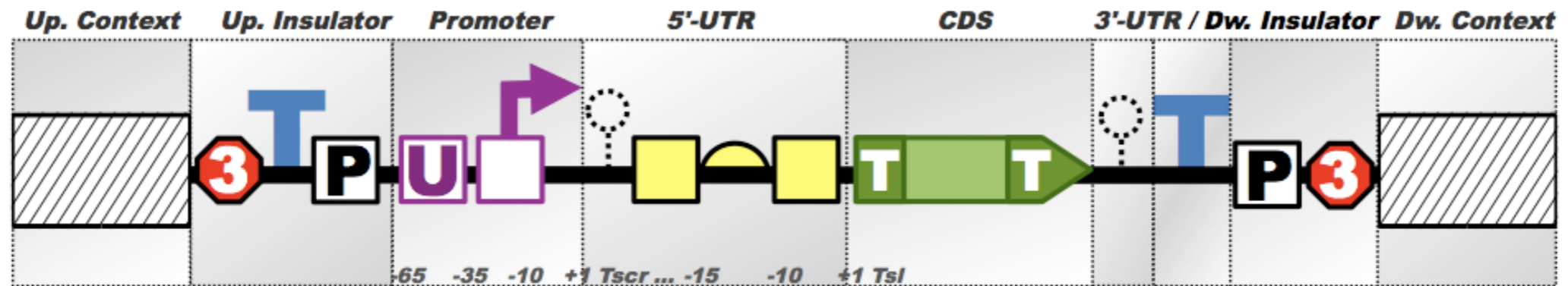


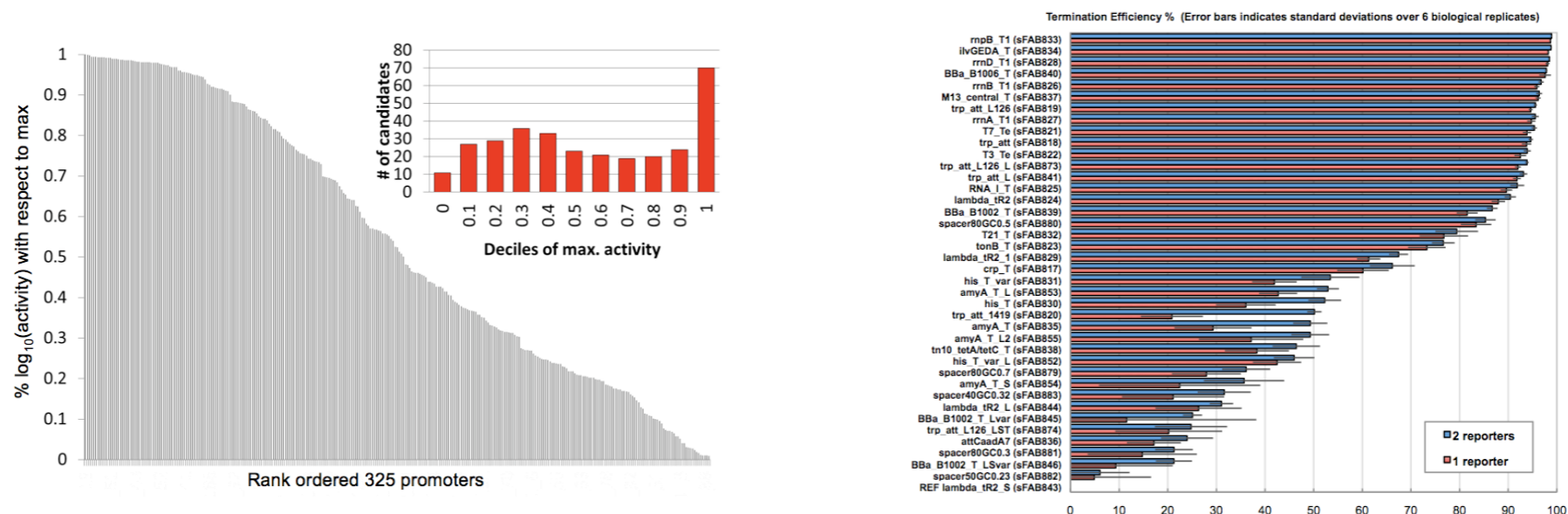
Launch a professional team that...

(1) Develops micro-architectures that could support precise and reliable engineering of biology's central dogma.



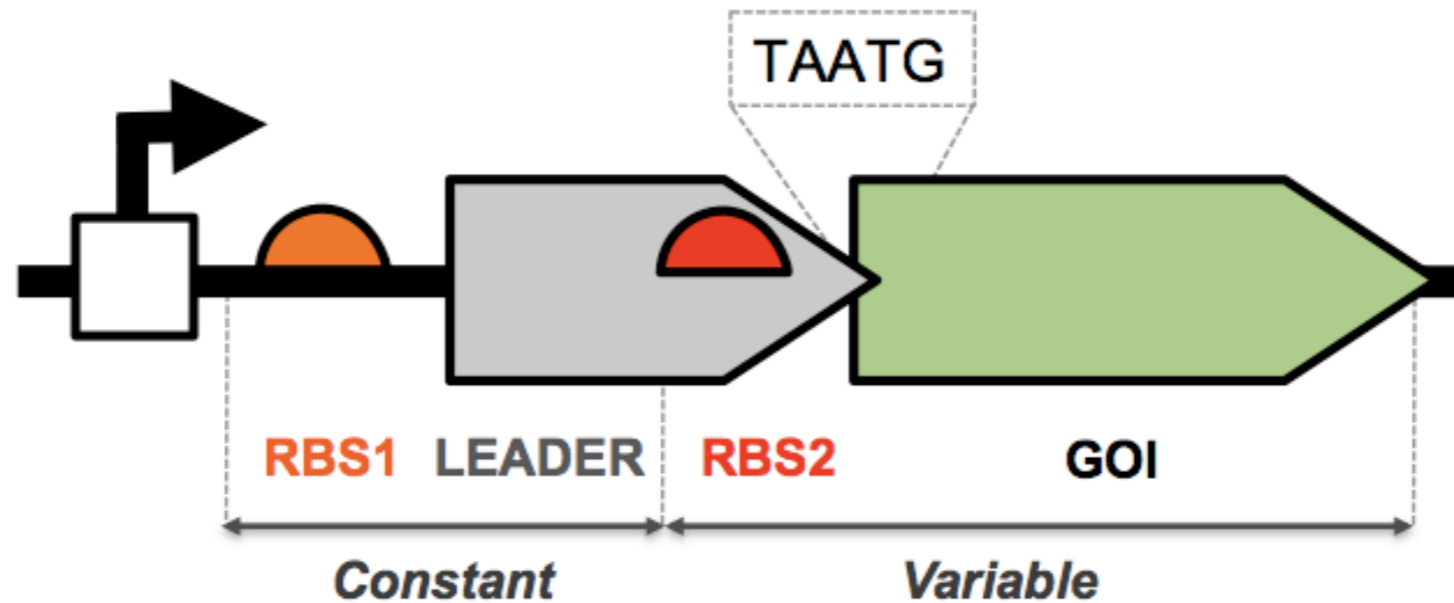
BIOFAB *E. coli* "C. dog" Expression Operating Unit (EOU) v1

(2) Makes, measures, and tests components that contribute to genome-scale expression operating systems.

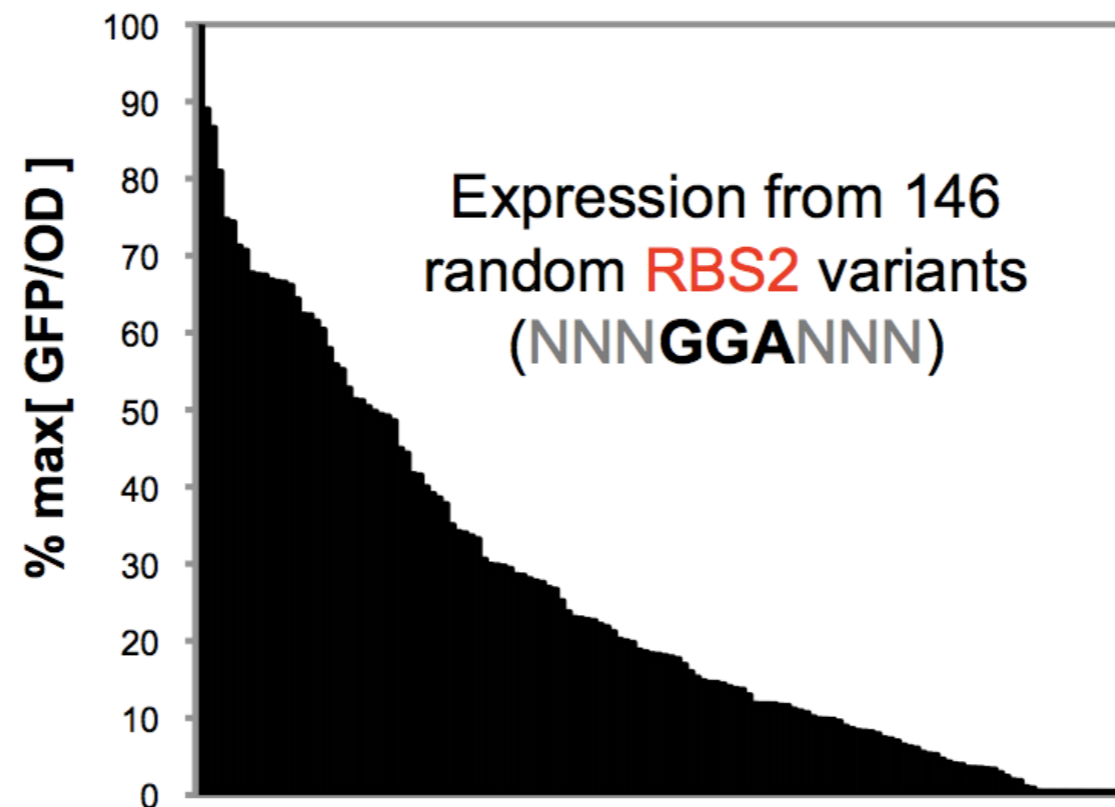


*unpublished BIOFAB data c/o Dr.Vivek Mutalik et al. of BIOFAB Emeryville, funded via NSF and several corporate gifts.

Aim for precise & reliable gene expression

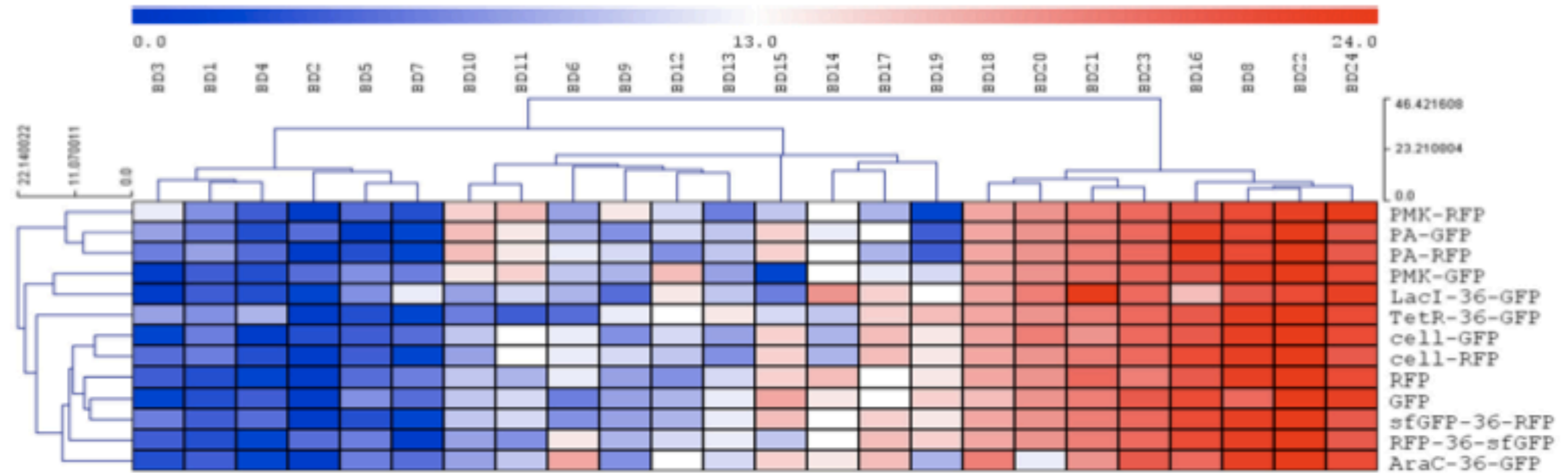


BIOFAB *E. coli* "C. dog" v1 Bicistronic Translational Junction



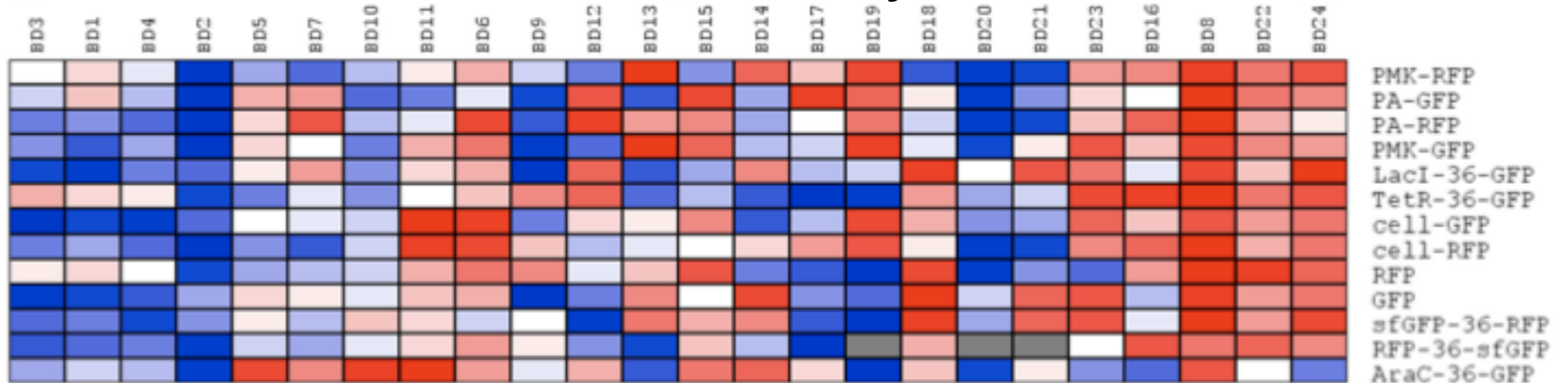
Precise and reliable gene expression!

~24 translation levels (low to high)



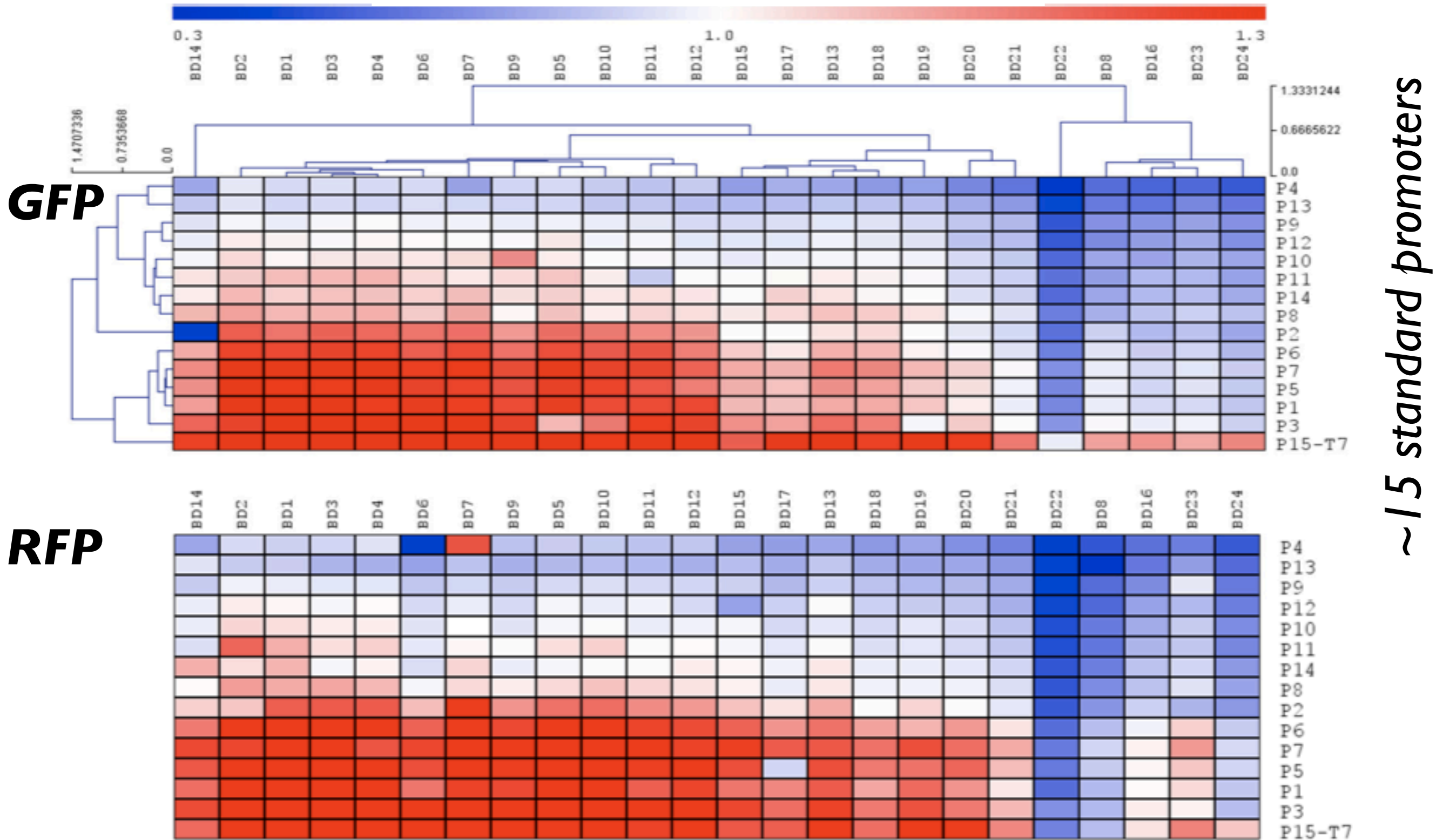
~13 coding sequences

w/o BIOFAB bicistronic junction



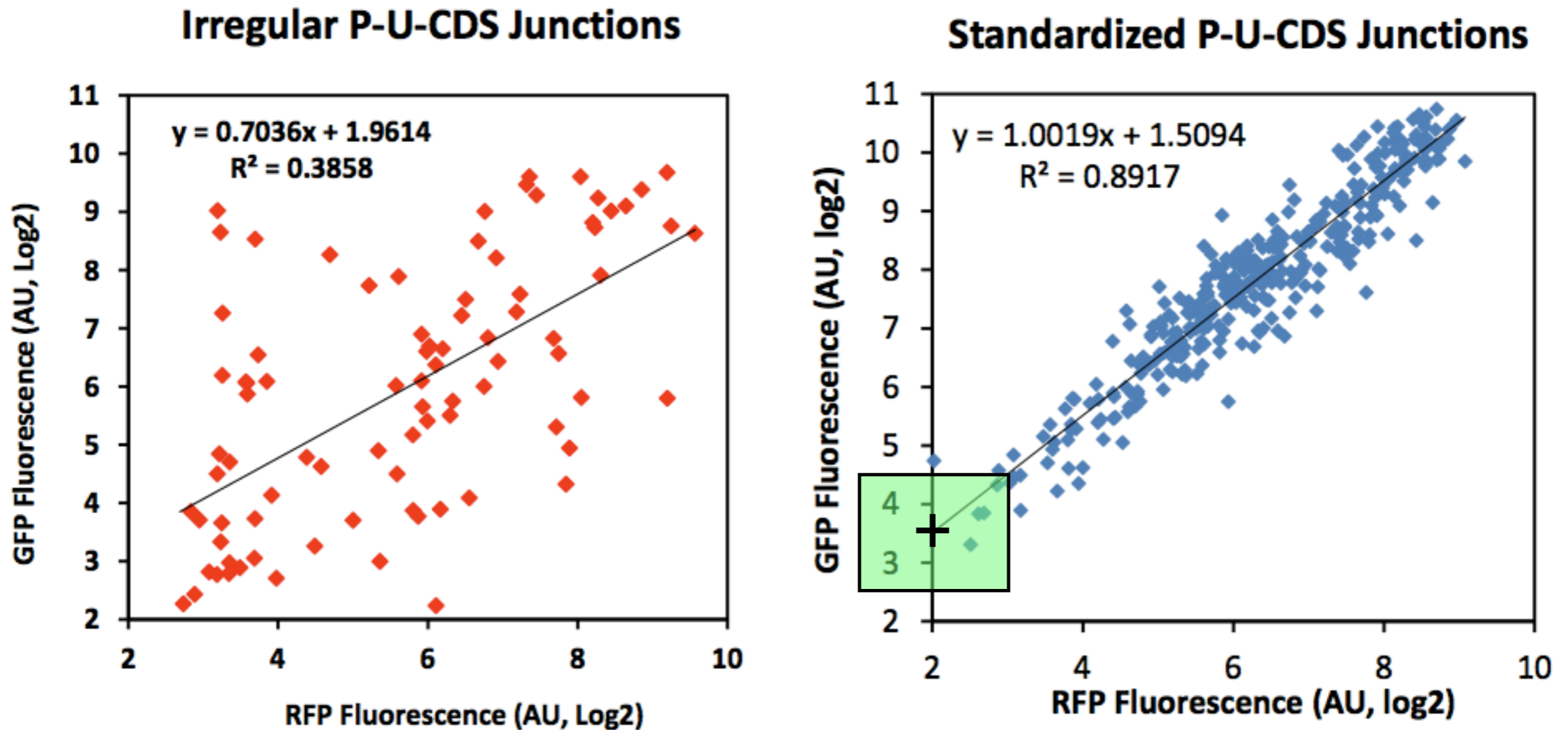
In detail, 2 genes, same parts, same expression

~24 translation levels (low to high)



*unpublished BIOFAB data c/o Dr.Vivek Mutalik et al. of BIOFAB Emeryville, funded via NSF and several corporate gifts.

Why does a solid “C. dog” foundation matter?



~93% change to hit a factor-of-2 expression window. ~6 fold error reduction from previous best available tools. Design systems with ~10 genes at a time prior to first testing (in place of 1 gene at a time).