

Table S14: Non-secreted mCherry fluorescence level (normalized) and secreted alkaline phosphatase (SEAP) signal ^[1]. Top 7 TFREs were selected based on reported data.

	SEAP transient	mCherry in transient	mCherry in SSI
NFκB	63	2.66	210.33
NFκB-p65	54	2.48	188.68
GABPβ	46	1.27	52.35
DMP1	38	1.43	29.42
AhR/ARNT	23	1.20	45.00
USF1	18	1.05	50.47
STAT3	17.5	0.57	1.46

Supplemental References:
[1] Johari, Y. B., Brown, A. J., Alves, C. S., Zhou, Y., Wright, C. M., Estes, S. D., Kshirsagar, R., & James, D. C. (2019). CHO genome mining for synthetic promoter design. *Journal of biotechnology*, 294, 1–13.