## A **Proximal 01 Proximal Osym** Change in Uninduced Expression (0mM IPTG) Change in Uninduced Expression (0mM IPTG) 2 3 2 3 0.359 0.124 | 0.147 0.657 Distal+ Site 0.196 0.149 0.142 0.664 0.257 0.317 2.1 3.15 0.695 1.24 0.537 1.52 0.859 2.71 0.872 1.06 0.506 0.586 1.13 0.417 0.796 1.06 0.598 1.12 0.903 0.377 0.152 0.607 0.662 0.804 1.92 1.24 1.15 1.12 scram scram **Distal Site Distal Site** B **Proximal 01 Proximal Osym** Change in Induced Expression (1mM IPTG) Change in Induced Expression (1mM IPTG) 2.5 1.5 0.5 2 2.5 2 0.5 1 1.5 0.653 0.335 0.326 1.47 sym 0.288 0.514 2.43 2.21 0.708 0.325 0.445 0.661 0.791 1.64 0.729 2.17 0.879 0.965 0.749 0.827 0.494 0.491 0.967 1.18 1.37 1.61 0.418 0.985 1.11 0.475 1.38 0.391 0.146 2.66 1.95 1.06 0.779 0.729 scram scram **Distal Site Distal Site Proximal 01 Proximal Osym** Fold-change Fold-change 12 8 16 8 16 4 12 4 10.7 9.42 7.29 9.15 8.62 $O_{2-\text{var}}$ Site $O_{3}$ 0, 6.02 13.2 5.52 4.88 8.84 16.6 7.51 6.63 9.72 2.38 3.77 2.19 4.66 8.93 6.1 9.35 6.93 5.71 4.58 3.72 3.51 8.32 6.83 7.23 7.53 7.02 6.69 8.47 Oscram O<sub>scram</sub> 3.62 2.42 4.49 8.34 5.3 7.24 9 7.86 9.9 5.1 **Distal Site Distal Site**