**Supplementary File 1.** **Pairwise comparisons of *E. coli* cells expressing Ocr (WT/pBAD18cm[*ocr*]) *versus* cells not expressing Ocr (WT/pBAD18cm).**

|  |  |  |  |
| --- | --- | --- | --- |
| Growth Conditions | | | **Growth**  **Inhibition** |
| **Growth Medium** | Temperature | Ocr Induction |
| **LB broth (low salt)** | 37oC | - | NO |
| **LB broth (low salt)** | 37oC | 0.02%(w/v) arabinose | NO |
| **LB broth (low salt)** | 37oC | 0.20%(w/v) arabinose | NO |
| **LB broth (low salt)** | 25oC | - | NO |
| **LB broth (low salt)** | 25oC | 0.02%(w/v) arabinose | NO |
| **LB broth (low salt)** | 25oC | 0.20%(w/v) arabinose | NO |
| **LB broth (high salt)** | 37oC | - | NO |
| **LB broth (high salt)** | 37oC | 0.02%(w/v) arabinose | NO |
| **LB broth (high salt)** | 37oC | 0.20%(w/v) arabinose | NO |
| **LB broth (high salt)** | 25oC | - | NO |
| **LB broth (high salt)** | 25oC | 0.02%(w/v) arabinose | NO |
| **LB broth (high salt)** | 25oC | 0.20%(w/v) arabinose | NO |
| **Nutrient broth** | 37oC | - | NO |
| **Nutrient broth** | 37oC | 0.02%(w/v) arabinose | NO |
| **Nutrient broth** | 37oC | 0.20%(w/v) arabinose | NO |
| **Nutrient broth** | 25oC | - | NO |
| **Nutrient broth** | 25oC | 0.02%(w/v) arabinose | NO |
| **Nutrient broth** | 25oC | 0.20%(w/v) arabinose | NO |
| **Modified M9 medium** | 37oC | - | YES |
| **Modified M9 medium** | 37oC | 0.02%(w/v) arabinose | YES |
| **Modified M9 medium** | 37oC | 0.20%(w/v) arabinose | YES |
| **Modified M9 medium** | 25oC | - | YES |
| **Modified M9 medium** | 25oC | 0.02%(w/v) arabinose | YES |
| **Modified M9 medium** | 25oC | 0.20%(w/v) arabinose | YES |