Standard Curve Plate for SARE Partnership Grant with Mike Palmer. These standard curves are run by the UVM genomics lab to be used in future data analysis to derive genome copies/bee. We are running new standard curves since we are using a new machine.

|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | 10^1 | 10^1 | 10^1 | 10^1 | 10^1 | 10^1 | 10^1 | 10^1 | 10^1 | 10^1 | NTC DWV |  |
| B | 10^2 | 10^2 | 10^2 | 10^2 | 10^2 | 10^2 | 10^2 | 10^2 | 10^2 | 10^2 | NTC ACT |  |
| C | 10^3 | 10^3 | 10^3 | 10^3 | 10^3 | 10^3 | 10^3 | 10^3 | 10^3 | 10^3 |  |  |
| D | 10^4 | 10^4 | 10^4 | 10^4 | 10^4 | 10^4 | 10^4 | 10^4 | 10^4 | 10^4 |  |  |
| E | 10^5 | 10^5 | 10^5 | 10^5 | 10^5 | 10^5 | 10^5 | 10^5 | 10^5 | 10^5 |  |  |
| F | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 | 10^6 |  |  |
| G | 10^7 | 10^7 | 10^7 | 10^7 | 10^7 | 10^7 | 10^7 | 10^7 | 10^7 | 10^7 |  |  |
| H | 10^8 | 10^8 | 10^8 | 10^8 | 10^8 | 10^8 | 10^8 | 10^8 | 10^8 | 10^8 |  |  |
|  | DWV | DWV | DWV | DWV | DWV | ACTIN | ACTIN | ACTIN | ACTIN | ACTIN |  |  |

DWV, ACTIN

|  | **Stock** | **Final konc** | **20 µl** | **10 µl** |  | **47** | **\* 80%** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **H2O** |  |  |  | 1.475 |  | **69.325** |  |
| **iTaq Universal SYBR Green mix** | 2x | 1x |  | 5 |  | **235** |  |
| **Primer 1** | 10 μM | 0.2 μM |  | 0.2 |  | **9.4** |  |
| **Primer 2** | 10 μM | 0.2 μM |  | 0.2 |  | **9.4** |  |
| **iScript reverse transcriptase** |  | 1x |  | 0.125 |  | **5.875** | **4.7** |
| **Template RNA** |  |  |  | 3 |  | **3** |  |
|  |  |  |  |  |  |  |  |

Remember to Spin? Completed \_\_\_\_\_\_\_\_