**Part #**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Who made the construct

Brief Description of the Construct

**INFO**

Length:

Vector: Template:

Approach:

Restriction sites used :

Primers used:

Sequencing results:

**PCR:**

Polymerase used: 2step or 3step protocol:

Annealing temp: extension time:

**GEL & PURIFICATION**

File name: Results:

Purification with: Yield:

**DIGESTION**

Enzymes used:

|  |  |  |
| --- | --- | --- |
|  | **Vector** | **Insert** |
| Amount digested | ul ; ng | ul ; ng |
| BUFFER 10X |  |  |
| Enzyme 1 |  |  |
| Enzyme 2 |  |  |
| BSA |  |  |
| H2O |  |  |
| Tot volume |  |  |

Phosphatase has been added to the vector?

DPNI has been added to the insert?

Purification with:

Yield: Vector ng/ul Insert ng/ul

**LIGATION**

Calculation:

Ligase Used:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Control** | **1:1** | **1:2** | **1:3** | **1:4** |
| Vector |  |  |  |  |  |
| Insert |  |  |  |  |  |
| Buffer |  |  |  |  |  |
| Ligase |  |  |  |  |  |
| H2O |  |  |  |  |  |
| Tot volume |  |  |  |  |  |

Transformation in:

Results

**SCREENING**

Gel file name:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Colony** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** |
| colour |  |  |  |  |  |  |  |  |
| miniprep yield |  |  |  |  |  |  |  |  |
| **DIGESTION** |  |  |  |  |  |  |  |  |
| amount digested |  |  |  |  |  |  |  |  |
| BSA 10x |  |  |  |  |  |  |  |  |
| Buffer 10X |  |  |  |  |  |  |  |  |
| E1 |  |  |  |  |  |  |  |  |
| E2 |  |  |  |  |  |  |  |  |
| H2O |  |  |  |  |  |  |  |  |
| Tot volume |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| Worked? |  |  |  |  |  |  |  |  |