**Contact details**

|  |  |
| --- | --- |
| Name of school |  |
| Teacher name |  |
| Email address |  |
| Technician name |  |
| Email address |  |
| First point of contact | Name:  Phone: |

**Planning – please suggest two dates for start of kit loan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dates of kit loan | 1st choice: 2nd choice: | | | |
| **Please select:** Standard kit OR MiniOne kit: | | | | |
| **Practical activities planned** | | **Year group** | **Intended no. of students** | **Initial risk assessment undertaken** |
| 1 – Some tools of the trade | |  |  |  |
| 2 – Beginning to clone a gene | |  |  |  |
| 3 – Building a recombinant plasmid | |  |  |  |
| 4 – Verifying pARA-R is present using PCR | |  |  |  |
| 5 – Checking you’ve created a recombinant plasmid | |  |  |  |
| 6 – Inserting recombinant plasmids into bacteria | |  |  |  |
| 7 – Correlating DNA fragment size (genotype) with  phenotype | |  |  |  |
| 2a – Examining the engineered plasmid pARA-R using restriction digestion | |  |  |  |
| 4a – Examining the engineered plasmid pARA-R using PCR | |  |  |  |
| 5a – Verifying the engineered plasmid pARA-R | |  |  |  |
| 6a – Inserting recombinant plasmids into bacteria | |  |  |  |
| 7a – Correlating DNA fragment size (genotype) with phenotype | |  |  |  |
| 9 – DNA profiling | |  |  |  |
| Orangutan | |  |  |  |

**Please return to stem@herts.ac.uk**