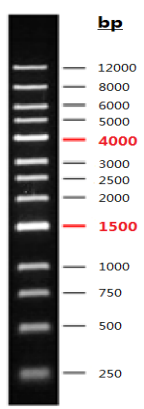


| Certificate of Analysis                                                             |                                                                                                                                           |             |           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|
| Vector Name                                                                         | pKNOCK-Km                                                                                                                                 | Catalog No. | V009171   |
| Project/Lot No.                                                                     | G0372932-3/D17019                                                                                                                         | Strain      | GT115     |
| Quantity                                                                            | 100ug                                                                                                                                     | Resistance  | Kanamycin |
| QC Results                                                                          |                                                                                                                                           |             |           |
| Test Items                                                                          | Specifications                                                                                                                            | Results     |           |
| Appearance                                                                          | Clear, no visible particles                                                                                                               | Pass        |           |
| Concentration                                                                       | On request, default                                                                                                                       | Pass        |           |
| A260/280                                                                            | 1.8 - 2.0                                                                                                                                 | Pass        |           |
| A260/230                                                                            | >2.0                                                                                                                                      | Pass        |           |
| Supercoiled content                                                                 | No request                                                                                                                                | N/A         |           |
| Residual RNA                                                                        | Not visible upon electrophoresis                                                                                                          | Pass        |           |
| Genomic DNA                                                                         | Not visible upon electrophoresis                                                                                                          | Pass        |           |
| Restriction Analysis                                                                | Conforms to reference                                                                                                                     | Pass        |           |
| Bioburden assay                                                                     | No growth on agar plate after 24 hours                                                                                                    | N/A         |           |
| Endotoxin Test                                                                      | Verified, (Endo-Free Preps Only)                                                                                                          | N/A         |           |
| Label                                                                               | Correct and white                                                                                                                         | Pass        |           |
| Sequencing                                                                          | Correct                                                                                                                                   | Pass        |           |
| Comments                                                                            | -                                                                                                                                         | -           |           |
| Restriction Digestion Map                                                           |                                                                                                                                           |             |           |
|  | 1                                                                                                                                         | 2           | M         |
|                                                                                     | <p><b>Lane 1:</b> Plasmid DNA</p> <p><b>Lane 2:</b> Plasmid digested by MluI (896/1201 bp in theory)</p> <p><b>Lane M:</b> DNA Marker</p> |             |           |

Certified by: Chou Fang  
Date: Jul/21/2025  
Valid until: Jul/21/2028

