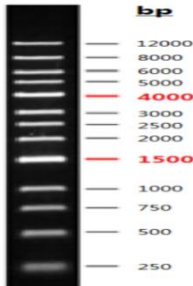
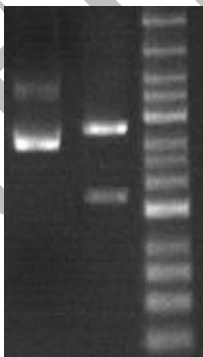


| Certificate of Analysis                                                             |                                                                                     |                  |           |                                                                                                                                               |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Vector Name                                                                         | pIB139                                                                              | Catalog No.      | V012917   |                                                                                                                                               |
| Project/Lot No.                                                                     | G0363978-1/D11510                                                                   | Strain           | DH10B     |                                                                                                                                               |
| Quantity                                                                            | 100ug                                                                               | Resistance       | Apramycin |                                                                                                                                               |
| QC Results                                                                          |                                                                                     |                  |           |                                                                                                                                               |
| Test Items                                                                          | Specifications                                                                      | Results          |           |                                                                                                                                               |
| Insert Sequence                                                                     | Insert sequence results consistent with target                                      | Pass             |           |                                                                                                                                               |
| Vector Sequence                                                                     | Flanking sequence consistent with expected                                          | Pass             |           |                                                                                                                                               |
| ORF Across Junction                                                                 | Correct and consistent with target                                                  | N/A              |           |                                                                                                                                               |
| Restriction Digest                                                                  | Expected fragment sizes observed                                                    | Pass             |           |                                                                                                                                               |
| PCR Amplification                                                                   | Correct without non - specific bands                                                | Pass             |           |                                                                                                                                               |
| DNA Quantity/Quality                                                                | Concentration (n/a if lyophilized)                                                  | N/A              |           |                                                                                                                                               |
|                                                                                     | Purity (A 260/A280 = 1.8 - 2.0)                                                     | Pass             |           |                                                                                                                                               |
|                                                                                     | Matrix                                                                              | TE (lyophilized) |           |                                                                                                                                               |
| Endotoxin Test                                                                      | Verified, <0.1 EU/µg (Endo-Free Preps Only)                                         | N/A              |           |                                                                                                                                               |
| Appearance                                                                          | Clear, no visible particles                                                         | Pass             |           |                                                                                                                                               |
| Label                                                                               | Correct and white                                                                   | Pass             |           |                                                                                                                                               |
| Comments                                                                            | -                                                                                   | -                |           |                                                                                                                                               |
| Restriction Digestion Map                                                           |                                                                                     |                  |           |                                                                                                                                               |
| Marker                                                                              | 1                                                                                   | 2                | M         | Description of Map                                                                                                                            |
|  |  |                  |           | <p><b>Lane 1:</b> Plasmid</p> <p><b>Lane 2:</b> Plasmid Digested with XbaI-XhoI (1814/3901 bp in theory)</p> <p><b>Lane M:</b> DNA Marker</p> |

Certified by: Chou Fang  
Date: May/15/2025  
Valid until: May/15/2027

