**Gene Synthesis QA Report**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene Name** | 模板一 | | | | | **Order No.** | G20539-1 | |
| **Lot No.** | 07/25/2022-M47207 | | | | | **Cloning Vector** | pEGFP-N1 | |
| **Cloning Sites** | XhoI-EcoRI | | | | | **Insert Size** | 1585bp | |
| **Competence** | T1 | | | | | **Vector Resistance** | Amp | |
| **Quality Control** | | | | | | | | |
| **Test Items** | | **Specifications** | | | | | | **Results** |
| **Insert Sequence** | | Insert sequence results consistent with target | | | | | | Pass |
| **Vector Sequence** | | Flanking sequence consistent with expected | | | | | | N/A |
| **ORF Across Junction** | | Correct and consistent with target | | | | | | N/A |
| **Restriction Digest** | | Expected fragment sizes observed | | | | | | N/A |
| **PCR Amplification** | | Correct without non - specific bands | | | | | | Pass |
| **DNA Quantity/Quality** | | Actual yield (by A 260 ) | | | | | | 4μg |
| Concentration (n/a if lyophilized) | | | | | | N/A |
| Purity (A 260/A280 = 1.8 - 2.0) | | | | | | Pass |
| # of Tubes | | | | | | 1 |
| 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** | | | | | | | | |
|  | | **1** | **2** | **M** |  | | | |
|  | |  | | | **Lane 1：**Plasmid  **Lane 2**: Plasmid Digested with XhoI-EcoRI  **Lane M**: DNA Marker | | | |

**Certified by: LOIS**

**Date: 07/28/2022**