Product Name: NEBridge® Golden Gate Assembly Kit (BsaI-HF-v2)
Catalog Number: E1601S
Packaging Lot Number: 10199053
Expiration Date: 07/2025
Storage Temperature: -20°C
Specification Version: PS-E1601S/L v3.0

### NEBridge® Golden Gate Assembly Kit (BsaI-HF-v2) Component List

<table>
<thead>
<tr>
<th>NEB Part Number</th>
<th>Component Description</th>
<th>Lot Number</th>
<th>Individual QC Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>N0309AAVIAL</td>
<td>pGGAselect Destination Plasmid</td>
<td>10195891</td>
<td>Pass</td>
</tr>
<tr>
<td>M2616AVIAL</td>
<td>NEBridge® Golden Gate Enzyme Mix (BsaI-HF-v2)</td>
<td>10195892</td>
<td>Pass</td>
</tr>
<tr>
<td>B0202SVIAL</td>
<td>T4 DNA Ligase Reaction Buffer</td>
<td>10186769</td>
<td>Pass</td>
</tr>
</tbody>
</table>

### Assay Name/Specification

#### * Individual Product Component Note
Standard Quality Control Tests are performed for each component included in NEBridge® Golden Gate Assembly Kit (BsaI-HFv2) and meet the designated specifications.

#### Functional Testing (Golden Gate Assembly)
A 20 µl reaction containing 1X T4 DNA Ligase Reaction Buffer, 75 ng pGGAselect (Golden Gate destination plasmid, CamR), 75 ng each of 5 plasmids carrying fragments of a gene encoding lacIz, and 1 µl NEBridge® Golden Gate Assembly Kit (BsaI-HFv2) is incubated for 30 cycles of 37°C for 1 minute, 16°C for 1 minute, and then at 60°C for 5 minutes to linearize any remaining plasmid. Successfully assembled fragments result in lacIz gene in the pGGAselect vector and yield blue colonies on an IPTG/Xgal/Chloramphenicol plate. Transformation of T7 Express Competent E. coli (High Efficiency, NEB #C2566) with 2 µl of the assembly reaction yields >250 colonies.

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.
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03 Jul 2023

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Josh Hersey
Packaging Quality Control Inspector
20 Jul 2023