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Diagram illustrating the construction of a genetic circuit using PCR products and restriction enzymes (BpiI).

The circuit components and their assembly are shown below:

- PCRa:** Contains a **PBad** promoter, a **BpiI** site, and a **nn** (non-coding) region.
- PCRb:** Contains an **RBS** (Ribosome Binding Site), a **BpiI** site, and a **nn** region.
- PCRc:** Contains a **CI** (Cis-acting Inhibitor) element, a **BpiI** site, and a **nn** region.
- PCRD:** Contains an **RBS** (Ribosome Binding Site), a **BpiI** site, and a **nn** region.
- PCRe:** Contains a **GFP** (Green Fluorescent Protein) gene, a **BpiI** site, and a **nn** region.
- PCRf:** Contains a **Term** (Terminator) element, a **BpiI** site, and a **nn** region.

The final assembly is shown as a linear sequence of PCR products connected by **BpiI** sites:

**BpiI** — **a** — **b** — **BpiI** — **a** — **b** — **BpiI** — **c** — **d** — **BpiI** — **c** — **f** — **BpiI** — **d** — **e** — **BpiI** — **e** — **f** — **BpiI** — **f** — **g** — **BpiI**

8 PCR PRODUCTS  
16 PRIMERS

## 16 PRIMERS

## 7 LO DESTINATION VECTORS

