|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Expression cassette** | **Integration site (left)** | **Left connector** | **Promoter** | **ORF** | **Terminator** | **Right connector** | **Integration site (right)** |
| **Strain 1** | | | | | | | |
| EC 1 | INT1 | con5 | Sbay\_TDH3 | crtE | Sc\_TDH3 | conA | INT1 |
| EC 2 | INT2 | conB | Smik\_TEF1 | crtYB | Sc\_PDC1 | conC | INT2 |
| EC 3 | INT3 | conD | Kl\_ENO1 | crtI | Sc\_TAL1 | conE | INT3 |
| **Strain 2** | | | | | | | |
| EC 4 | INT1 | con5 | Kl\_PGK1 | crtE | Sc\_TDH3 | conA | INT1 |
| EC 5 | INT2 | conB | Kl\_TEF2 | crtYB | Sc\_PDC1 | conC | INT2 |
| EC 6 | INT3 | conD | Kl\_OLE1 | crtI | Sc\_TAL1 | conE | INT3 |
| **Strain 3** | | | | | | | |
| EC 7 | INT1 | con5 | Kl\_TDH2 | crtE | Sc\_TDH3 | conA | INT1 |
| EC 8 | INT2 | conB | Kl\_YDR1 | crtYB | Sc\_PDC1 | conC | INT2 |
| EC 9 | INT3 | conD | Kl\_LEU2 | crtI | Sc\_TAL1 | conE | INT3 |