



**S2\_Figure. Verification of the targeted integration of AscI-linearized pSDMA58\_BTA1 into *bta1*Δ genome (“Safe Haven” site).** Multiplex PCR was performed using primers within the pSDMA58\_BTA1 (UQ1768 and UQ3348) and primers outside of pSDMA58\_BTA1 (UQ2962 and UQ2963), therefore yielding 2 bands with different size: 1514bp from primer combination UQ2962 and UQ3348, and 1203bp from primer combination UQ1768 and UQ2963. pSDMA58\_BTA1 integrated into the “Safe Haven” in transformants 1, 3, 4, and 5. *bta1*Δ was included as a negative control (expected size of the single band = 2177bp). Sequences of primers are listed in **Table S1**.