

```

TTTTATCTCA TTTGGATTAT TAAAAGCAGG GATTATTCCT TGCTTTTTTT
                                manR                                -35
GTTATAGGGA AAAATGCCTT TATTACCGGA ACCTATGGTA AAAAAAGCGA
                                -10          +1 EgII
TTTAAATGAG CTGATTTTCGG TA TACAGTTG AGACAAGATC TTATTATTCA
      XbaI          AflII          NdeI
CACTTCTAG AAATAATTTT CTTAAGAAGG AGATATACAT ATGACACATG
                                           Lysa_Bs

```

Fig. 1

```

|pSUN291|pSUN384_1|pSUN385_2|
TGAATTCTG CTGAATATAC ATTACATAGC AAACCTCAAAG AGTATAAAAA
|pSUN386_9 HindIII -35
TCGCTTTTTT CCGGAAGCTT CGGTAAAAAA CGAAACTTTT GTCTCTATGA
      FsiI -10          +1
TTTTGTTTTA TAATGTAAAC GGTTCCTTAT ATAGTATACT TATACTATCA
>>...CRE...>>
      AflII          NdeI
ATTGCTCAA GTAGATACTG ACAGGCTTAA GAAGGAGATA TACATATGAC
                                           >lecZ

```

Fig. 2

```

      HindIII -35
TTTTTCCGGA AGCTTCGGTA AAAAACGAAA CTT TGTCTC TATGATTTTG
      -10 CRE +1
TTTTA TAAATZ TAAACGTTT CTTATATAGT AACTTATAC TATCAATTTG
CTCAAGTAGA TACTGACAGG AAGGATAGAA AAACAGATGG AATACATAAA
                                           manR

```

Fig. 3

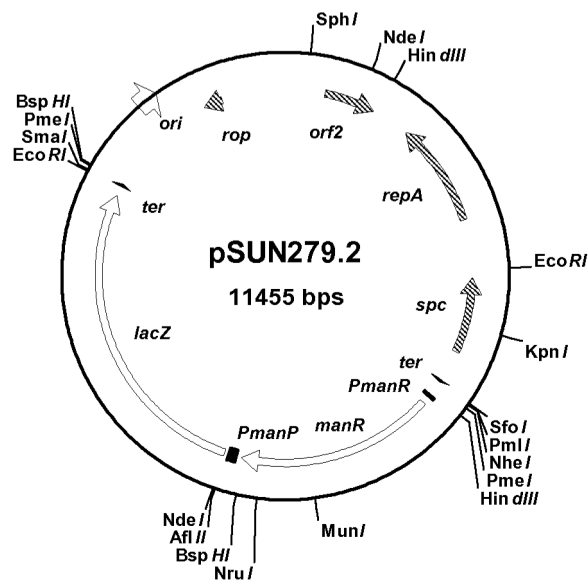


Fig. 4

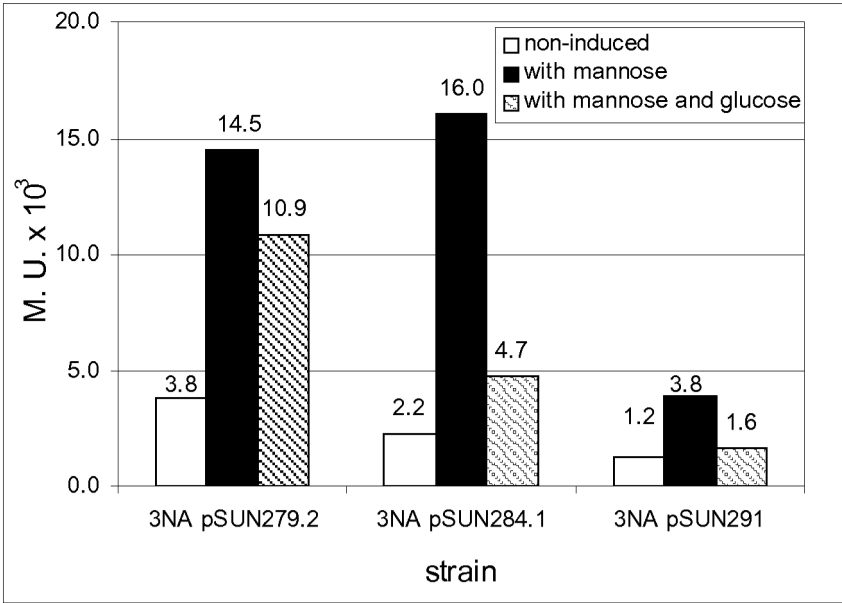


Fig. 5

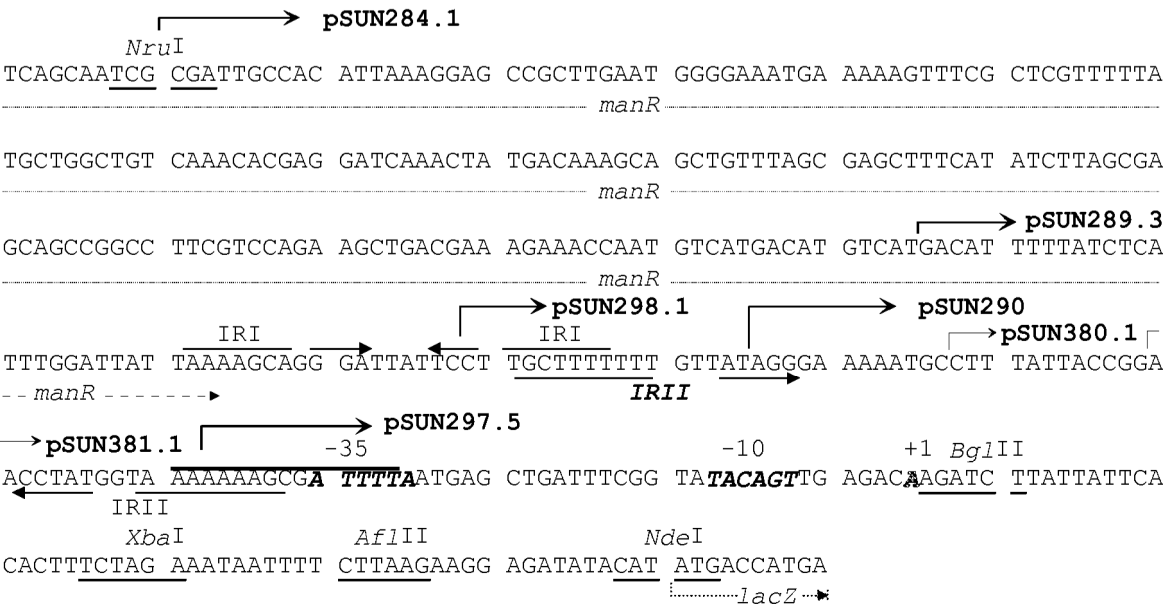


Fig. 6

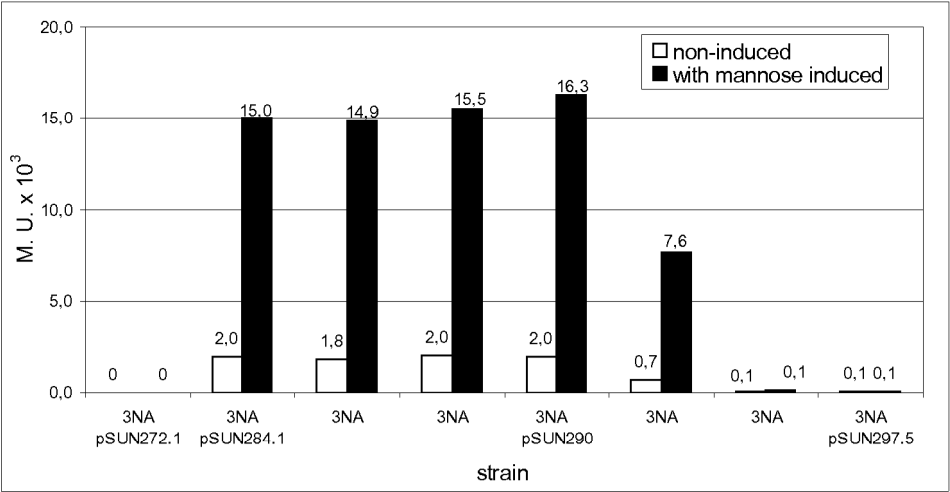


Fig. 7

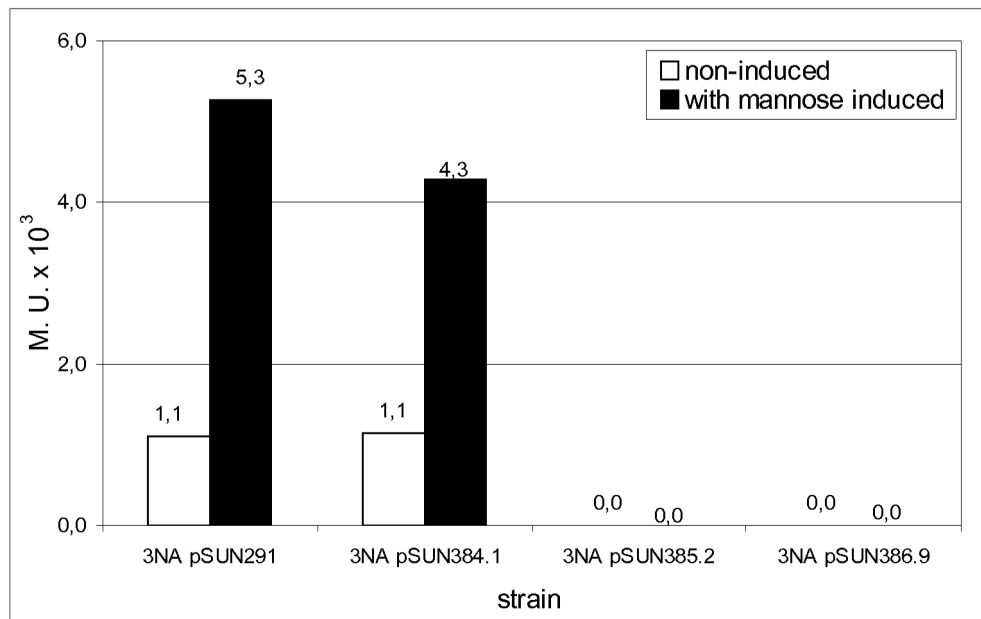


Fig. 8

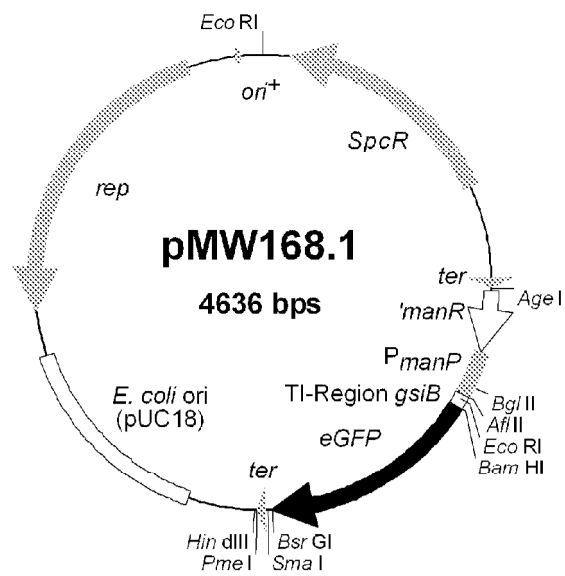


Fig. 9: plasmid map of pMW 168.1

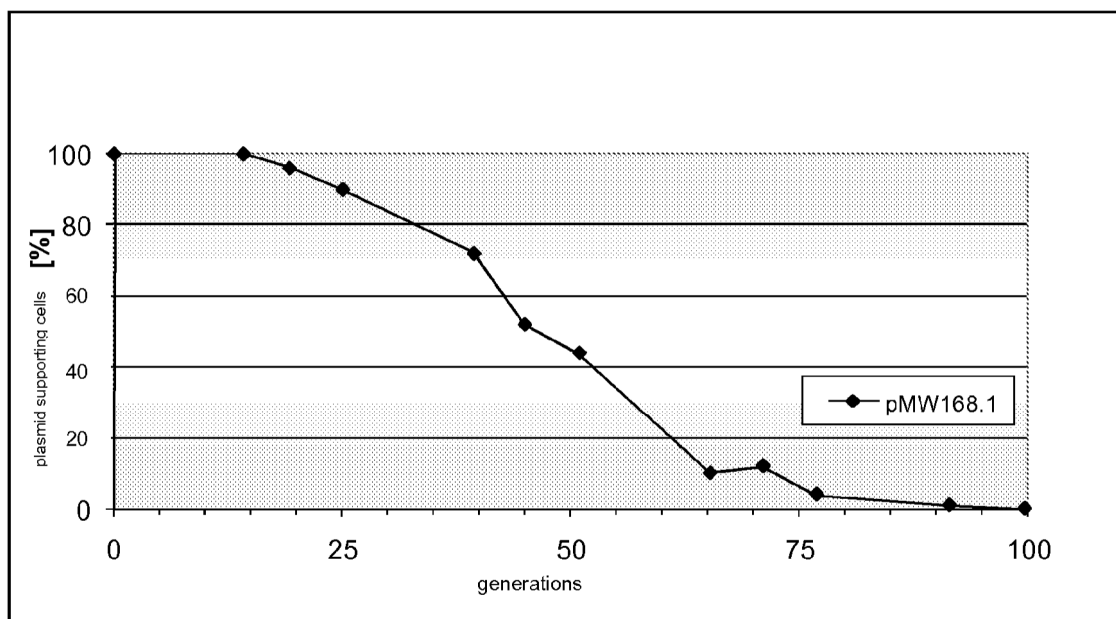


Fig. 10: plasmid stability test of pMW 168.1 in *B. subtilis* 3NA

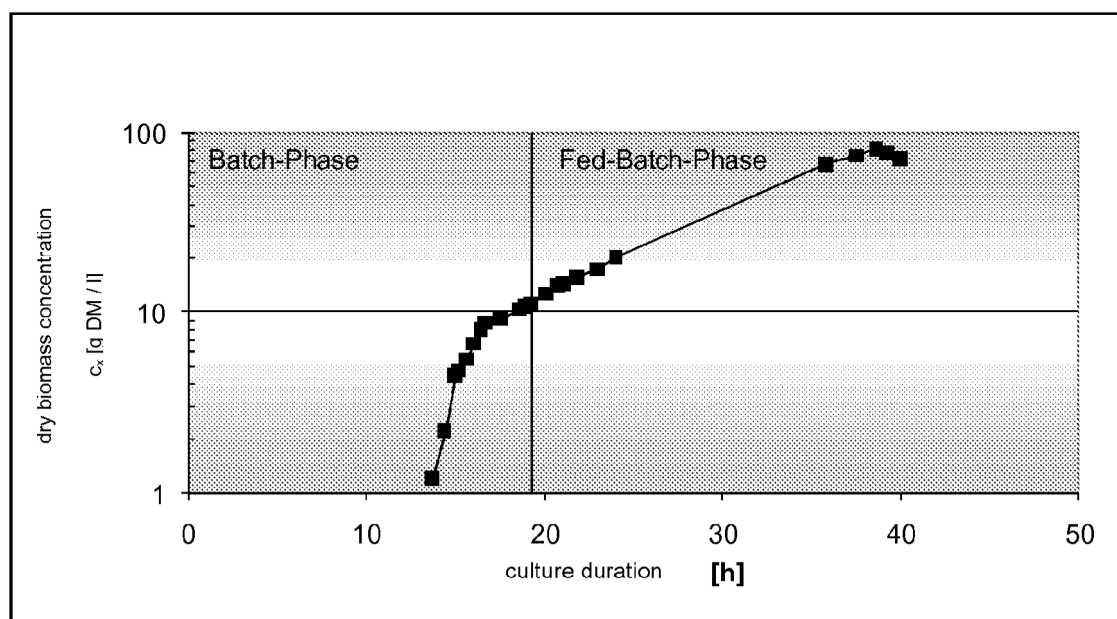


Fig. 11a: growth progress of run 1

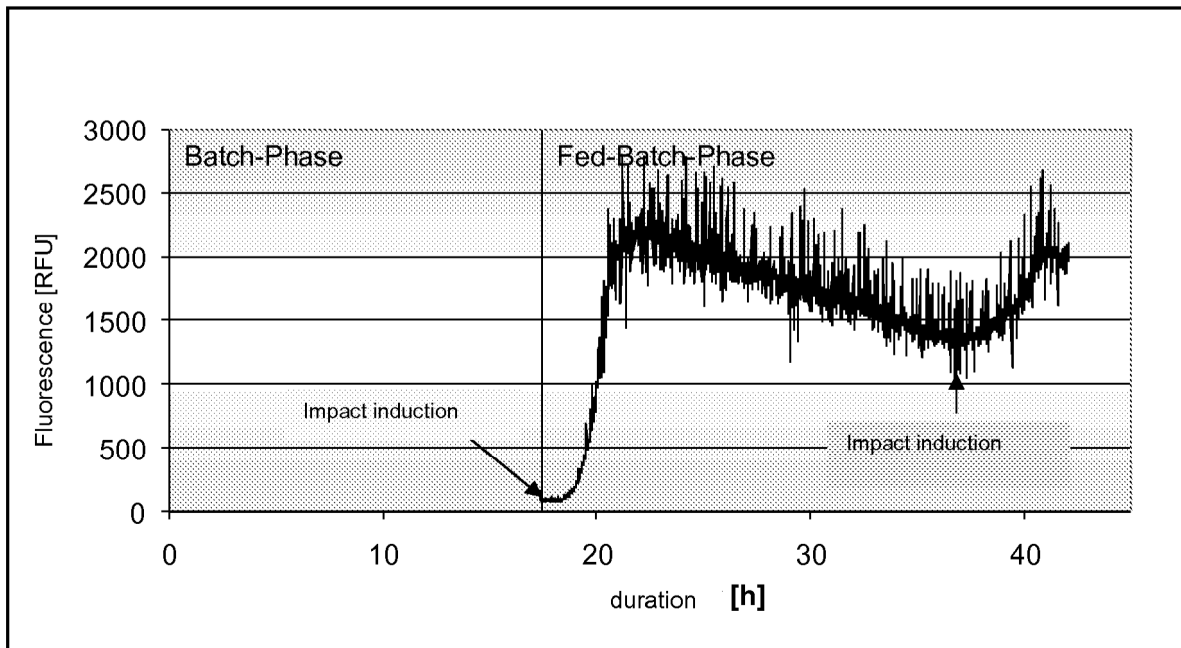


Fig. 11b: fluorescence signal of run 1

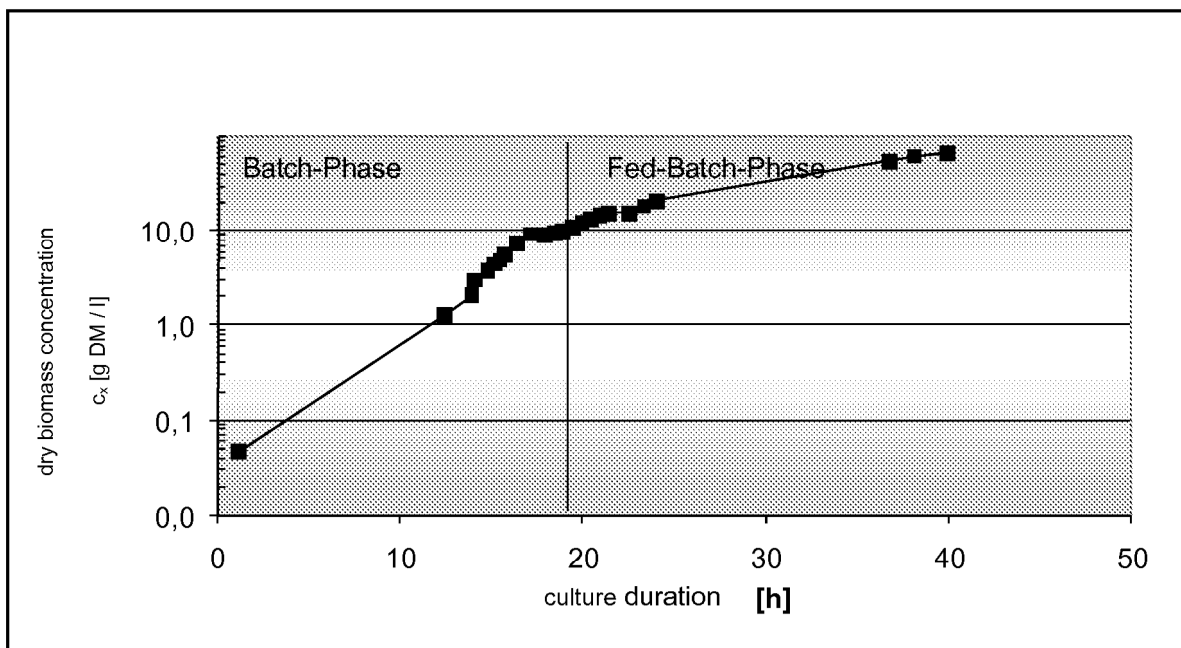


Fig. 12a: growth progress of run 2

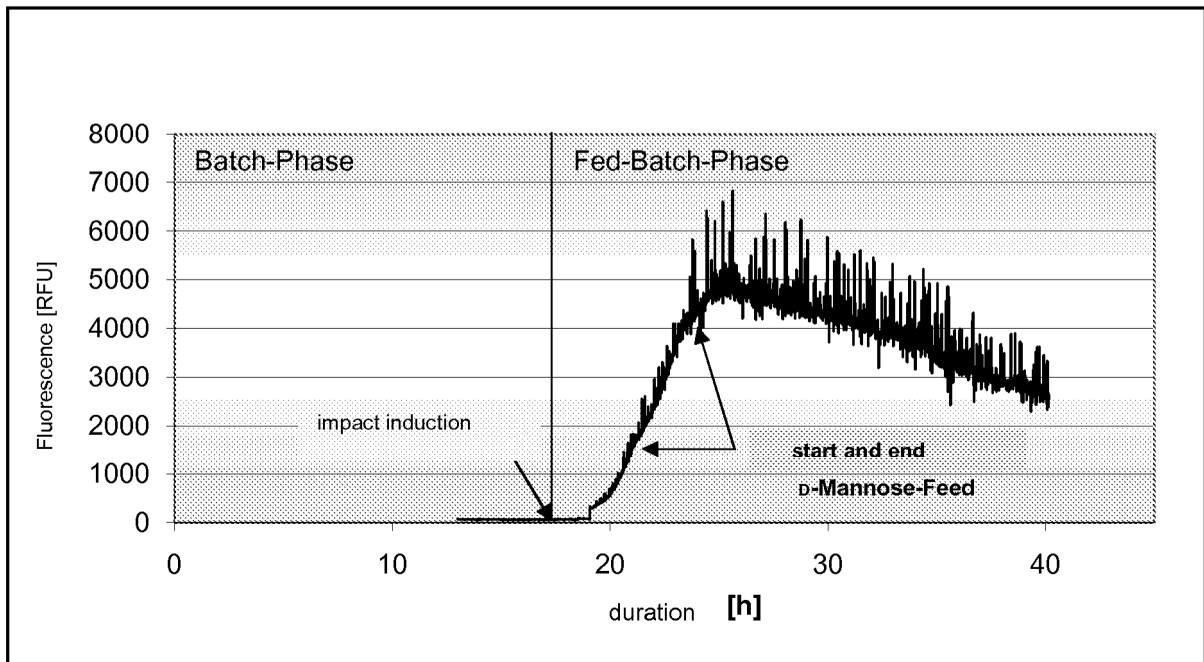


Fig. 12b: fluorescence signal of run 2

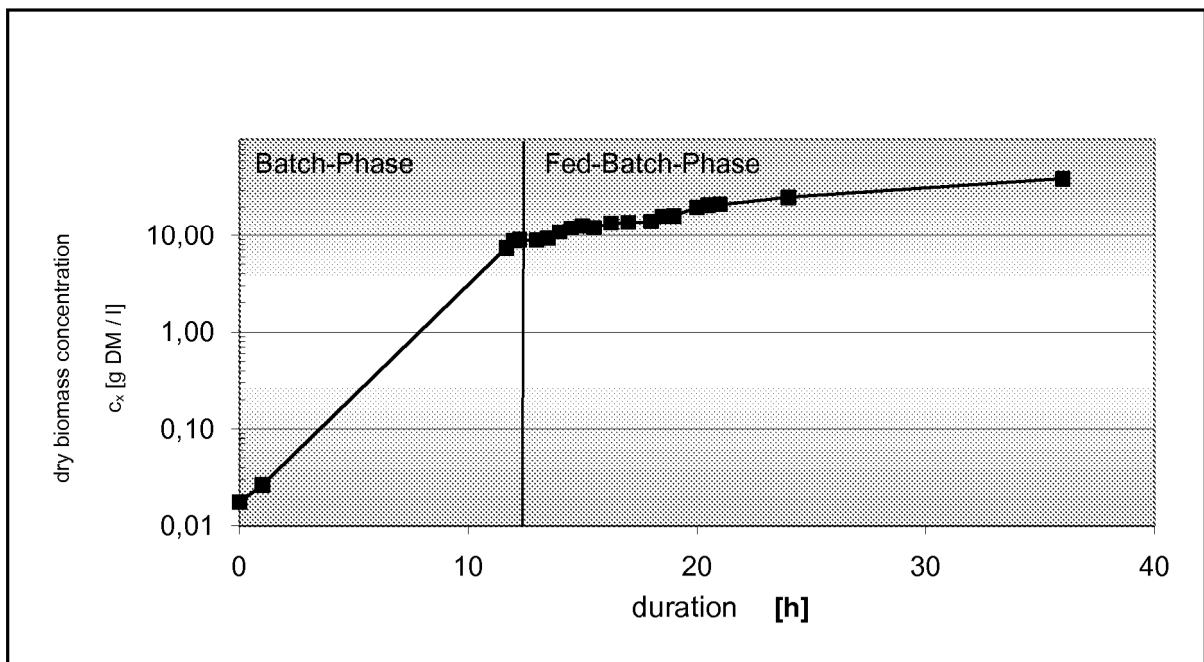


Fig. 13a: growth progress of run 3

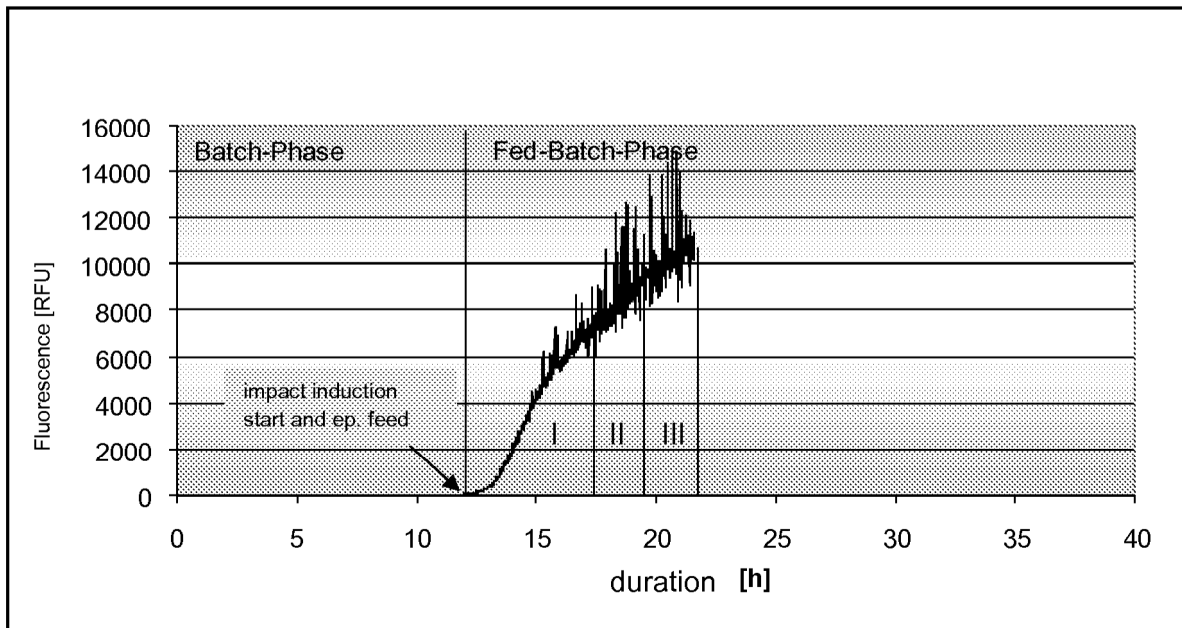


Fig. 13b: fluorescence signal of run 3

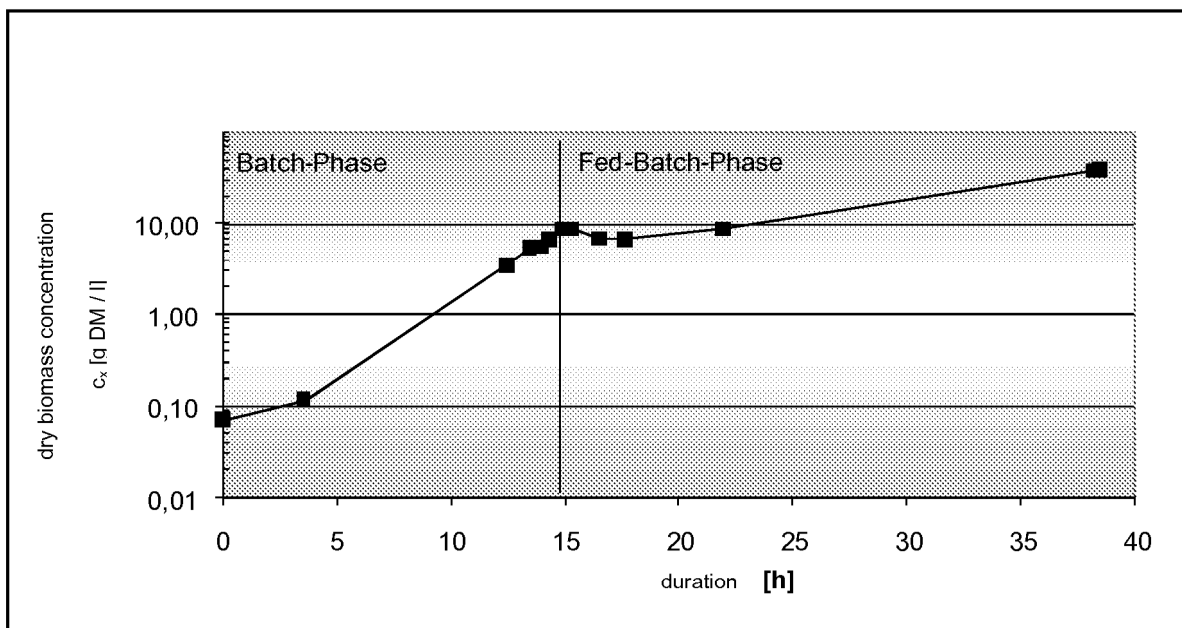


Fig. 14a: growth progress of run 4

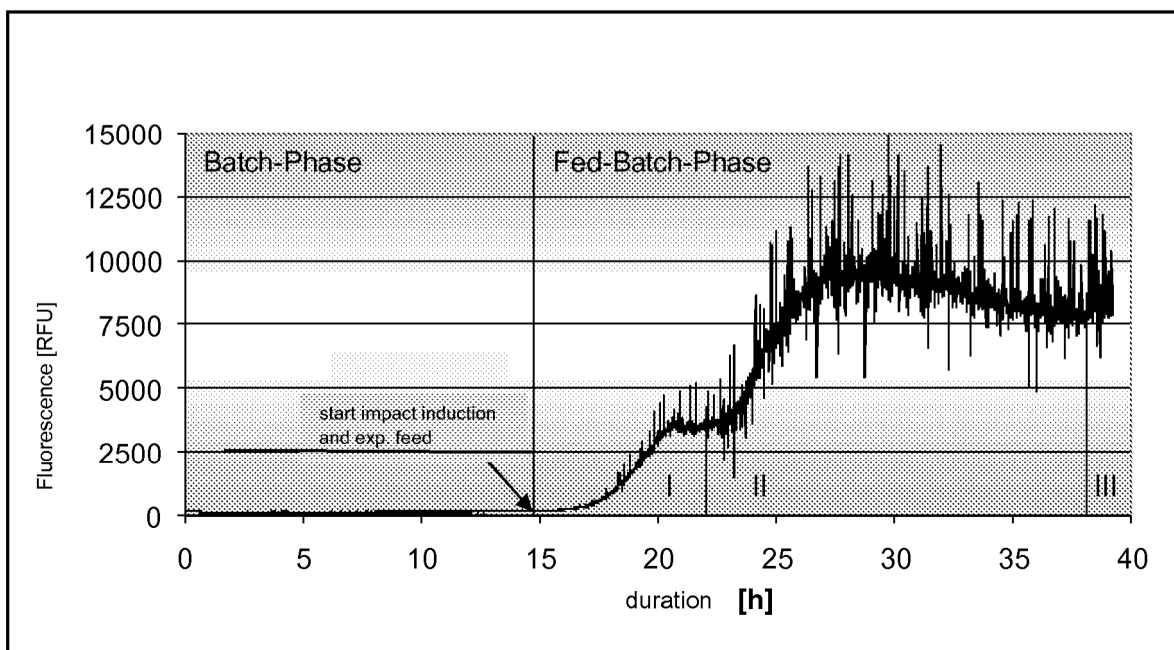


Fig. 14b: fluorescence signal of run 4

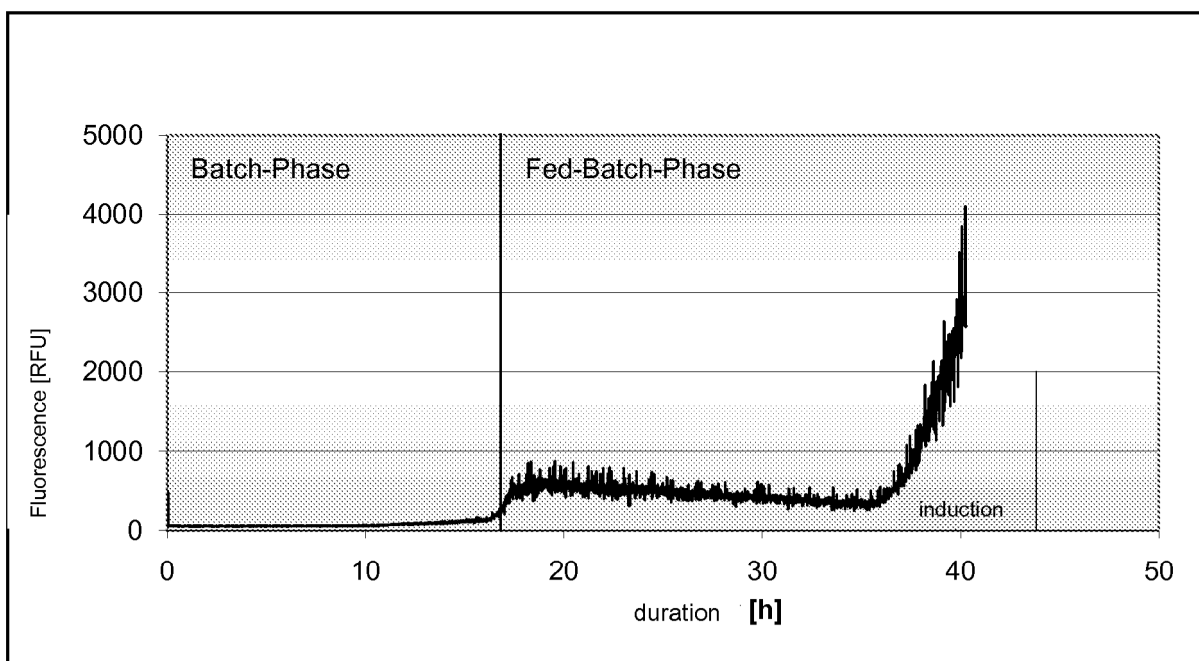
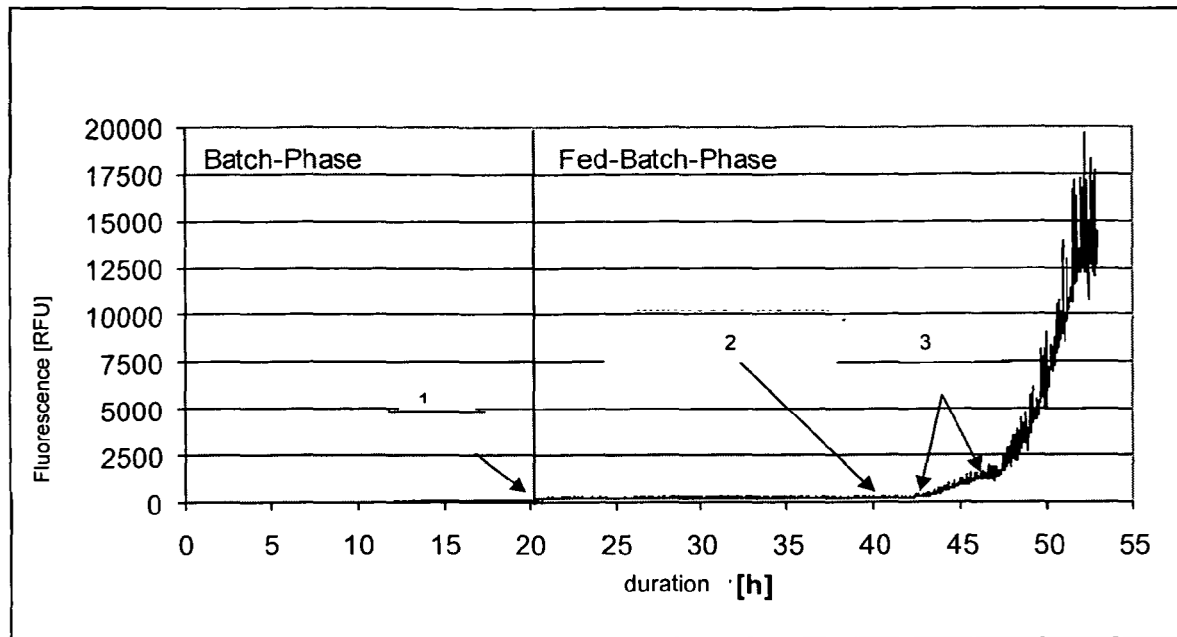


Fig. 15: fluorescence signal of run 5



- [1: start of glucose feed
2: impact induction D-mannose and
end of glucose feed
3: constant feed of D-mannose]

Fig. 16: fluorescence signal of run 6

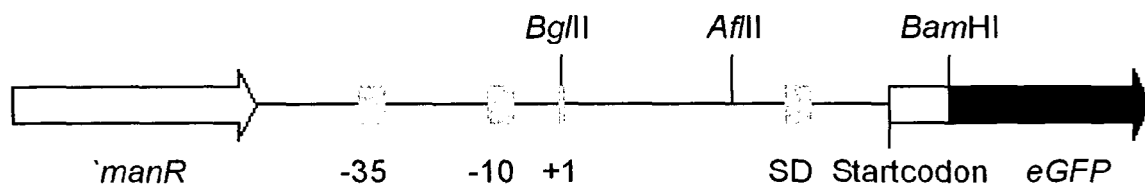


Fig. 17

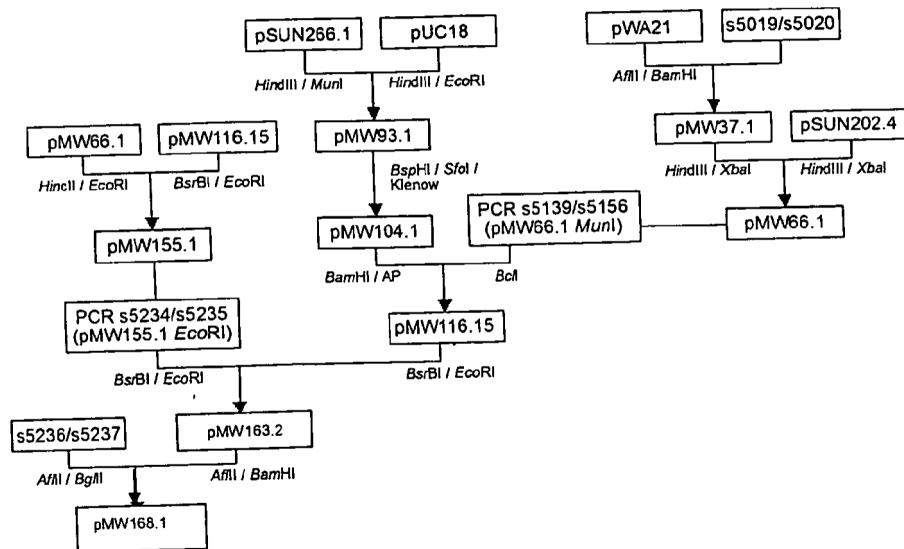
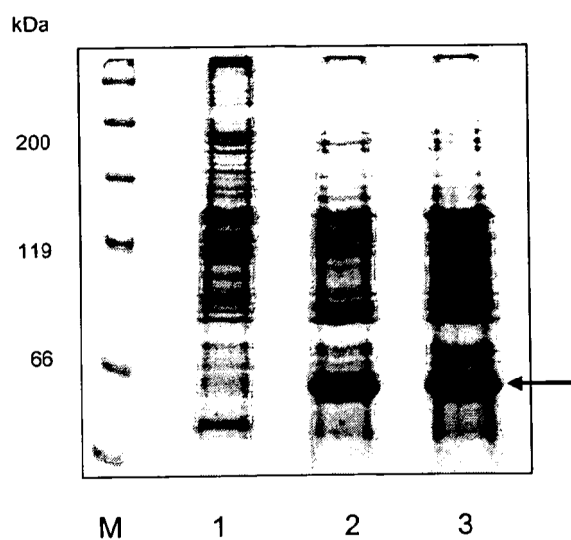


Fig. 18

**Fig. 19**