



Look What They've Done To My Shoes!

SCU_China Project 2016

Protocol
Leucine Team



Quantitative PCR

Materials

- 1 Tranzol up (transgene ET111)
- 2 TransScript All-in-One First-Strand cDNA Synthesis SuperMix for Qpcr (One-Step gDNA Removal)(Transgene AT341)
- 3 TransStart Top Green qPCR SuperMix
- 4 BL21 or DH5a containing overexpression vectors
- 5 qPCR machine

Procedures

- 1 inoculate microbe into 1.5 ml EP tubes and shaking overnight
- 2 8000g*4°C*2min centrifugation
- 3 discard supernatant and add 1 mL Tranzol up
- 4 then all procedure are done according to the protocol of Tranzol up product
http://www.transgen.com.cn/attached/download/ET111-01_2016090213.pdf
- 5 dissolve the RNA with 30 ul RNase free water
- 6 5ul of RNA are used in electrophoresis and 5ul are used to reverse transcription
- 7 reverse transcription
 - 1 5ul RNA
 - 2 4ul transcript buffer (Transgene AT341)
 - 3 1ul gDNA remover
 - 4 10ul RNase free waterIncubate in 42°C for 15min and 85°C for 5 sec
- 8 qPCR
 - 1 2ul buffer from reverse transcription as substance for qPCR is added in tubes and other components are added according to protocol of the product.
http://www.transgen.com.cn/attached/download/AQ131-01_2016090115.pdf
 - 2 95°C 30sec go into cycle of 95°C 5sec and 55°C 30sec for 45 cycles

Gibson assembly

- 1 Gibson assembly master reaction buffer 15ul (thaw the mixture and keep it on ice until ready to be used)
- 2 DNA fragments are added in equimolar amounts and add up to 20ul
- 3 incubation at 50°C for 40 min

