

Reagents list

cDNA synthesis kit

Epicenter MonsterScript 1st-strand cDNA synthesis kit (cat #MS040910)
or
Invitrogen SuperScript III First-Strand Synthesis kit (cat #18080-051)

LacZ primers for 3075 bp ORF

5' end of LacZ gene

Forward is 20-mer starting at bp 238: 5'- CCTGAGGCCGATACTGTCGT
Reverse is 19-mer starting at bp 308: 5'- TTGGTGTAGATGGGCGCAT
Product: 70 bp long

Middle of LacZ gene

Forward is 18-mer starting at bp 1260: 5'- CATGGTGCCAATGAATCG
Reverse is 20-mer starting at bp 1375: 5'- GCGACCAGATGATCACACTC
Product: 115 bp long

3' end of LacZ gene

Forward is 21-mer starting at bp 2567: 5'-CCTACCGGATTGATGGTAGTG
Reverse is 18-mer starting at bp 2664: 5'-CTGGCAGTTCAGGCCAAT
Product: 102 bp long

SYBR GREEN PCR reaction mix

Applied Biosystems Power SYBR Green PCR Master Mix (cat #4368577)