Development of New STMS markers for sugarcane

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Primer Name : **NKS 34**
Forward Sequence :**cgtcttgtggattggattgg**
Reverse Sequence :**tggattgctcaggtgtttca**
Gene Bank acesion No. of source sequence :**SHY293573**
Type of sequence :**Genomic DNA**

Source Sequence:

```
  1 gacgtcttgtggattggattggattncnagtgccaatccatctcagagatgtggtgannc

 61 gaagagattgaaacacctcctctgaatacgttcagtttnagatatgagtgtgtgtgtgtg

121 tgtgtgtgtgtgtgtgtgtgtgtgagagagagagagagagagagagagagagagagagag

181 agagagagagagagagagagagagattgaaacacctgagcaatccatttcctctgaatac

241 attcagttttagtctgtttggaagttggcatgcaccagaaaaccctgcagagtagagagt

301 gagttgcatgccagctaaactgt
```

Repeat Motif :**(gt)18(ga)31**
Total names of the germplasm lines tested: **48** (view table)
No. of PCR products amplified :**9**
The size range of the PCR product :**131 – 214 bp**
The general PCR protocol used :200 µM of each dNTPs, 6pmol each of the forward and reverse primer, 0.5 units of Taq DNA polymerase

The PCR cycling condition:
Pre-denaturation: 94^0C (5 min),
25 cycles of
Denaturation: 94^0 C (50 sec),
Annealing : 58^0 C (50 sec),
Extension : 72^0 C (50 sec) and
Final extension : 72^0 C (7 min).

Reference: Unpublished