Development of New STMS markers for sugarcane

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Primer Name : **NKS 43**
Forward Sequence :**ctgatgggaggttgaaggaa**
Reverse Sequence :**ataagcaccaaaagcgtggt**
Gene Bank acesion No. of source sequence :**SHY401321**
Type of sequence :**Genomic DNA**

Source Sequence:

```
  1 gatcaaatcagttgcattgtgacatgttggcgggatgccagtttccctttaacttggctt

 61 gtattcttcctatgtaatttctgtatatccctgtgatgaacattttagtaatctgagtgc

121 tcattcagttggtgctccctcctcatcactctgatgggaggttgaaggaaccaatatctg

181 tgtatacactgttgagatctggcattctgagggatatgataggttgttgattgcccttaa

241 cattcaagacttctttttttcatttttttactataagaatttcttgtgtgtgtgtgtg

301 tgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtttgccttgtagtttaaaccacgcttttggtgc

361 ttattttgcaaaattttcttgctgtgcttaaaatttggtaggg
```

Repeat Motif :**(tg)20**
Total number and names of the germplasm lines tested: **48** (view table)
No. of PCR products amplified :**4**
The size range of the PCR product : **143 – 508 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 : 57^0 C (50 sec),
Extension : 72^0 C (50 sec) and
Final extension : 72^0 C (7 min).

Reference: Unpublished