Development of New STMS markers for sugarcane

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Primer Name : **NKS 59**
Forward Sequence :**gttagcattgctgggaggag**
Reverse Sequence :**tctagctgggcaattccaaa**
Gene Bank acesion No. of source sequence :**SHY401340**
Type of sequence :**Genomic DNA**

Source Sequence:

```
  1 anngaacacatagtaggggcctaagttatagttgaccgtgaagccgatcctccttcgggc

 61 tgaggtattggaccgttagcattgctgggaggagagcctgaaggaaggggactgatccaa

121 gaccatgtttgctacgggattcgggcttcgagcaattcatgtgaggatgcaggatcatga

181 gttttgtgaaatggtctaggctcaccgccgaatggagtgaacagtgatccccgcgagcta

241 atgagggcttgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtttgg

301 aattgcccagctagatgtaatcgattcgaatcgccgtctctcccgattagtgagaaactt

361 agtcattgtccagcagtcatagtaactaatgaaacatgatgattctactgatcatgaaat

421 tggaatatggttactactgtgatgcttattaatcaaatgattgttacaaaatagatgcaa

481 atttagttctaaatagcttcactaaacttgatgctaaaatctcgatgctaaaagattgaa

541 agtaaggacttatgtagtaagctttttgcaaaggtttatgctatccaactagctccact

601 aaataaacttggcatatccttgaagttcttttatttttctcctgtcgggtaagtcttcct

661 gagc
```

Repeat Motif :**(tg)23**
Total number and names of the germplasm lines tested: **48** (view table)
No. of PCR products amplified :**2**
The size range of the PCR product : **128 & 147**
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 : 53^0 C (50 sec),
Extension : 72^0 C (50 sec) and
Final extension : 72^0 C (7 min).

Reference: Unpublished