Development of New STMS markers for sugarcane

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Primer Name : **NKS 50**
Forward Sequence :**cgaaggaccagttgaaagga**
Reverse Sequence :**atggaacaggacacaccaca**
Gene Bank acesion No. of source sequence :**SHY401331**
Type of sequence :**Genomic DNA**

Source Sequence:

```
    1 cttctcttttgttgaaataagactccatttctgacatctagcacattaagaagcaaaggc

   61 tccaattcactttcccaatgcacgttttcgtggctttgatggttttgctggttcaattga

  121 gagatggcttgccccctgttcatcttgtcccatatcacttttgtcattcttatagatgac

  181 tatttgctgcgttgcatcatcacatttgtcaccatctttaccagataatgttttgtctct

  241 tcccagatggtggagatagagagttcttaatgggactgatcatggaattttctgctttgg

  301 agttcatattttcgaaggaccagttgaaaggatagcaaataaaatttaacgttagaaggt

  361 aaaagaaagcttgatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtg

  421 tgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgaaatagttgtgtggtgtgtcctgt

  481 tccattacccaaagtctagggaattgtccaataaagctatacagactagctacagattca

  541 tggataattaagcctgtggcagtcattgtcccaagagatgaagaactagagaatttcaag

  601 cagt
```

Repeat Motif :**(tg)41**
Total number and names of the germplasm lines tested: **48** (view table)
No. of PCR products amplified :**8**
The size range of the PCR product :**119 - 206 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Reference: Unpublished