Development of New STMS markers for sugarcane

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Primer Name : **NKS 32**
Forward Sequence :**ccaactcactcaccccagtt**
Reverse Sequence :**atgagagtgcagatgcatgg**
Gene Bank acesion No. of source sequence :**SHY293563**
Type of sequence :**Genomic DNA**

Source Sequence:

```
  1 aacgacaaaattagcagcaggcttgcacaaattttacacatgcatatatacatacctggt

 61 gactgcaggccatggtcgtcaaaagctgaaatggtctcgatatgatcgagctggctcccg

121 ggacggagtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtg

181 tgtgtgtgtgtgtgtgtgtgtgggggaccaaacgaaactcttgtgtgcacgatgacttgtc

241 gcgaggggagaggggatcgaggacgcagctgtatttaaaggcacccggccgttataatat

301 gttttatctttcgtggcaaggaaaaatatactacctctctatagagtcgcttgcagcaaa

361 gcgtagtagcaaagaccaactcactcaccccagttgaagattaaaagaacaaactgcaaa

421 caaccagctgtgtgaagaatgttatcaccaagaaaagatctctctctctctctctctctc

481 tctctctctctctctctctctctctctctctctctctctctctctctctcttcactgatt

541 ttttttaagtcaaggtgaagcaagaccaccatgcatctgcactctcattggccagactta

601 aatttgtagggatgatatatacatgccaattcaaagaagtgnnnatttaattagattcct

661 ctcttatntcttggtgtt
```

Repeat Motif :**(tc)36**
Total number and names of the germplasm lines tested: **48** (view table)
No. of PCR products amplified :**5**
The size range of the PCR product : **160 - 190 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 : 52^0 C (50 sec),
Extension : 72^0 C (50 sec) and
Final extension : 72^0 C (7 min).

Reference: Unpublished