Development of New STMS markers for sugarcane

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Primer Name : **NKS 51**
Forward Sequence :**tttggagagcaaggagcaat**
Reverse Sequence :**ccaccgtatgcatgaaagaa**
Gene Bank acesion No. of source sequence :**SHY401332**
Type of sequence :**Genomic DNA**

Source Sequence:

```
  1 ncatgccattattcccatatactgaaacctatatatgtaggagtaggaccaattattgca

 61 tcgtttggagagcaaggagcaatacaaacctacttgaacagtgcacagtgtaattggatt

121 ccttctgctagatctacatgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtg

181 tgtgtgtgtgtgtgtgtgtgtgcaacaattaattatacatggcattcatttctttcatgca

241 tacggtggtttatatgatggttatttgatactgaaaatttcattggtctgcactctacag

301 agagagaacatagttaatagagaatctggttgctaaactaggaataaatatactgaaacc

361 tgttgtgatgcatgctcttattcttgtaaaagctaaagncatatgaagtagccacgcgta

421 agcaagaga
```

Repeat Motif :**(tg)31**
Total number and names of the germplasm lines tested: **48** (view table)
No. of PCR products amplified :**6**
The size range of the PCR product : **136 – 230** 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 : 53^0 C (50 sec),
Extension : 72^0 C (50 sec) and
Final extension : 72^0 C (7 min).

Reference: Unpublished