Development of New STMS markers for sugarcane

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Primer Name : **NKS 9**
Forward Sequence :**ctttcagtggccatctccat**
Reverse Sequence :**gaatgcgcagggataggata**
Gene Bank acesion No. of source sequence :**SHY293481**
Type of sequence :**cDNA**

SourceSequence :

```
  1 accaattgcgaatggcaggcaattcatccccgggcggtcttcctactgttgagcattatg

 61 gcagctccgatctgtgtcattgtgactcatgaaacgtaaagctactcgtggcccagccca

121 tgagcaagaccgtgacagctgacaaggacggccaccttggcgcgcccttgaatctttctt

181 cccgcggcgcggtgcaggtaaaccagcacacggaaacggaacggcctagccgcccgatag

241 tccatgcgggcaagccaagcaatccacccggcccggttgctttcagtggccatctccatc

301 gaccgtcagcactcagcagagcatcgacgccgccgccgccgccgcacgtccattgctaat

361 gctagctagctggtggacgctccaatcgatcgcgtgtccccgtccatgacgtgcctccta

421 tcctatccctgcgcattcgcgttgtttctacactct
```

Repeat Motif :**(cgc)6**
Total number and names of the germplasm lines tested: **48** (view table)
No. of PCR product amplified :**4**
The size range of the PCR product :**147 - 162 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Reference: Unpublished