

Development of New STMS markers for sugarcane

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Primer Name : NKS 23
Forward Sequence : taaacccccgaaaaagaacc
Reverse Sequence : tccggaggtagatccatttg
Gene Bank acsion No. of source sequence : SHY293498

Source Sequence:

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1 aactaaacccccgaaaaagaaccaatgacattatccctatcactgttcttcattttctgaa
61 ttttatacgcatgtgtgcacaaggaaccaagaatgagatgaacacacgagagagagagaga
121 gagagagagagagagagagagagaggtttccaatcgactttcaggccacaaacttcagtcagt
181 tgcagcttcaagctgcagtccttatgccgtgagctgctctctcgcaaggacaaatggatct
241 acctccggaaggagattaatgtctttacagccaaaaaaatgtccataaaacaacagaaag
301 acgtcatgt
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Repeat Motif : (ga)18
Total number and names of the germplasm lines tested: 48 (view table)
No. of PCR products amplified : 9
The size range of the PCR product : 113 - 398 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: 94⁰C (5 min),
25 cycles of Denaturation: 94⁰ C (50 sec),
Annealing : 56⁰ C (50 sec),
Extension : 72⁰ C (50 sec) and
Final extension : 72⁰ C (7 min).

Reference: Unpublished