Development of New STMS markers for sugarcane

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Primer Name : NKS 56

Forward Sequence :ctatacggcaaacgcaacct
Reverse Sequence :tatacgtcgcatgcaccatc

Gene Bank acesion No. of source sequence :SHY401337

Type of sequence :Genomic DNA

Source Sequence:

1 actaqcaatqaqaqtttqaaqacacaqqaqqqccttcatttqatttcqqqqaqcqaqtaa

61 aagcttgcacggagcatctggttcgatcggtagacggccgtagccaaagcgaaaaatcaa

121 agtgcacatatggctccggctccatcattgtggccgcgcaaaagcgcaacagagcatgga

181 tcgctcggctcatgcatgcatggctggctgggttggggttgggggtggggacactact

241 gtagcctatacggcaaacgcaaccttgaaagcgagttacagagccgctggtcagctgctg

421 cggaat<mark>gatggtgcatgcgacgtata</mark>cagcnccgggtaac

Repeat Motif : (tg)19

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 : 155 - 201

The general PCR protocol used $:200~\mu\text{M}$ 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°C (5 min),

25 cycles of Denaturation: 94° C (50 sec),

Annealing : 58° C (50 sec),

Extension : 72° C (50 sec) and

Final extension: 72° C (7 min).

Reference: Unpublished

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