

Development of New STMS markers for sugarcane

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Primer Name	: NKS 26
Forward Sequence	: gttctcgacatgggcctact
Reverse Sequence	: ctgcactttcggtcctttt
Gene Bank accession No. of source sequence	: SHY293501
Type of sequence	: Genomic DNA

Source Sequence:

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1 aaagttttnntctgaataaattaaaaaatatgcatgccgccttctttcacgagtcttcac
61 aaacctacttttttttagagagaaaacgttttcagaaacctactctccctctctctctct
121 agaattaatacatttcagaaacctactgtgtgaaactgaaacagagaaaaggccgaaagtgc
181 aaccagggccacagcgggtgaaagcttcagagaa gttctcgacatgggcctact actatt
241 ttacttccagcacaaattcacagtatagattctttttttgagcaacaatttacagtatag
301 atagggttgatggattagagntntgggtatttgatcc tgtgtgtgtgtgtgtgtgtgtgtg
361 tgtgtgtgtgtgtg agagagagagagagagagagagagagagagagagagagagcaatcctc
421 ctaatcctgtgtggaactt aaaaaggacgcgaaagtgcag tcgntcaggcccgtgcaaagc
481 tgggctaaaaagattcaactcgagacaaattcangctggcctgtgattgggcctgtccct
541 gctaatatgggtgggctcggctcaagtgtttaaacgatggcatttcaatcatgcctatctc
601 tatcatgattcatgagtggttaaaaatatgagaacattcttggccagtttagacgggcaatt
661 tgaacatttatgtggtgaaatatatgtgtgtctttattcttaacactcctccgttcennat
721 tataaatcatttttagttttttttttnagagtcaaccgtacacttatttttaggcggaaga
781 gt
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Repeat Motif	: (tg)18
Total number and names of the germplasm lines tested:	48 (view table)
No. of PCR products amplified	: 7
The size range of the PCR product	: 194 – 264 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°C (5 min),
	25 cycles of
	Denaturation: 94°C (50 sec),
	Annealing : 54°C (50 sec),
	Extension : 72°C (50 sec) and

Final extension : 72⁰ C (7 min).

Reference: Unpublished