

Development of New STMS markers for sugarcane

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Primer Name	:NKS 7
Forward Sequence	:ttacagcctggagctcgttt
Reverse Sequence	:cgaagcctctcctctctc
Gene Bank acesion No. of source sequence	:SHY293478
Type of sequence	:Genomic DNA

Source Sequence:

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1  acggcacgttgaggctcgtgcacgggcggtgtcgtgccggtggtgcctccggcggacgctg
61  cagcagccttggttcggtctatgttccccgagatcgcgccacagtgcagcattttcatct
121 cccagagctagggtttcctcggccggatcggagagacaaccgtcaaaatcgctgaaatca
181 agaaaaaattgaaggggacgagagctggggatcgataaatcagaggttc ttacagcctgg
241 agctcgttt aggcacggcgctcgccgactccgtaggatgatgaaatcctcgcgaccttgag
301 atgacgtcatcaatgacagagatgtagacggtggagacggttgctgctcgccatga cggcg
361 gcgggcgggcgggcgggcgggcggttagggtttcggcgcccg gaggagaggagaggcttcgg

421 cggaggaagggcgaggggatgcggaggagcggaggcg
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Repeat Motif	: (cgg) 9
Total names of the germplasm lines tested	:48 (view table)
No. of PCR products amplified	:3
The size range of the PCR product	:174 - 186 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 ⁰ C (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Reference: Unpublished