

Development of New STMS markers for sugarcane

Govindaraj P.¹, Balasundaram N.¹, Sharma T.R.², Bansal K.C.², Koundal K.R.² and Singh N.K.²

¹Sugarcane Breeding Institute, Coimbatore, Tamilnadu, India

²NRC on Plant Biotechnology, Indian Agricultural Research Institute, New Delhi, India

Primer Name	: NKS 1
Forward Sequence	: tgccatgtgtcatagccaat
Reverse Sequence	: ccccaactgggacttttaca
Gene Bank accession No. of source sequence	: AA577668
Type of sequence	: cDNA

Source Sequence:

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1 ctgaatgcttgccatgtgtcatagccaattacaaacgaaaggtggctgcatgcatttcagc
61 ctgccgatcagacttaagggttaattattaagcaggaagaagaagaagaagacagcaaca
121 tcagggtaactcgtcggttatattactgccttgctcgtccacattctcttcaaaagcatcc
181 tcgttgattaattgcctcctctactcgtcgagtagtagtactcgttgtaaaagtcccagttg
241 gggtcagtcgcgctgacggggggctgacaaaaggtgctcccttgacgaaacagagaatt
301 ctcttctctgcaatgagctagccctcacgtacagggccaaacatccccaccggttcccat
361 tggatggaatccattccgttccttgtagctcttaggggtagggaaaactcgtccgcttg
421 agatgattgcaactca
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Repeat Motif	: (gaa) 6
Total number and names of the germplasm lines tested	: 48 (view table)
No. of PCR products amplified	: 3
The size range of the PCR product	: 207 - 228 bp
The general PCR protocol used	: 200 µM of each dNTPs, 6 pmol 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Reference: Unpublished