

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 24
Forward Sequence	: tatatggcgaggacagatgc
Reverse Sequence	: gggttcagaattagagcaatcg
Gene Bank accession No. of source sequence	: SHY293499
Type of sequence	: Genomic DNA

Source Sequence:

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1  acctatgtagccataagtcaataagcatccatacgtttgcaaacttttatctacatgcac
61  tacttaatgccgcatctctttgtttgcattctcttttaaagggtgaccggtgcactcgtc
121 ctgtgtttaatttgtagccatccatgaagaatgattacatttacatatatggcgaggac
181 agatgcagtgtgtattttccatttcttgagagagagagagagagagagagagagagagaga
241 gagagagagagagagagagagagagagagagagagatggacgattacttctcttgtttatt
301 tactttgggtctatatatgctgagcgagataacatagctcgattgctctaattctgaacc
361 ctgaacctataactatatgcatgggttgctaaggattctactcatttaattctggaattcag
421 ctgggtccacaccctaagcaactttccccaccacattggttggtaccttccacgactca
481 tcaccaccatccagtaagaagacagatgccgaacatgcaggatgctaagatgaataactaa
541 gctagatatagagcaataatagtaaattgcaccatcatacaagcatgggtggatagcatg
601 ccacctgatcgatcaatccagtcctatnacatgcttttctccaaagtg
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Repeat Motif	: (ga) 34
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	: 141 - 183 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	: 64°C (50 sec),
		Extension	: 72°C (50 sec) and
		Final extension	: 72°C (7 min).

Reference: Unpublished