

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 57
Forward Sequence	: cgagcctccctccatagatt
Reverse Sequence	: accaccaccaacctcatctc
Gene Bank acesion No. of source sequence	: SHY401338
Type of sequence	: Genomic DNA

Source Sequence:

```
1 cgcaatgcaatggaagcagacggtggatcggcagcgggcacgccaggccacttgatccac
61 ccgtnacgtcgtaaatacgattgctttccaaaagtcccatcgcccaagcatgtcctgcg
121 cgggccccagagccccatttctccgttaccgacacgcggccccggatagcaccgctgtg
181 gcccacctgcccggcgatcgagcaatgcaaggctcgtcgtcgcgcgtcccatggatatac
241 aagcgagcctccctccatagattagatgcacgctatcagctgcgtgtggtatgcgtgtgt
301 gtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgaacaaccggc
361 cgtctgttntcaggagatgagggttggtggtggt
```

Repeat Motif	: (gt)27
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	: 185 – 223 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 : 55 ⁰ C (50 sec),
		Extension : 72 ⁰ C (50 sec) and
Final extension :		72 ⁰ C (7 min).

Reference: Unpublished