

LTR primers tested on one maize sample

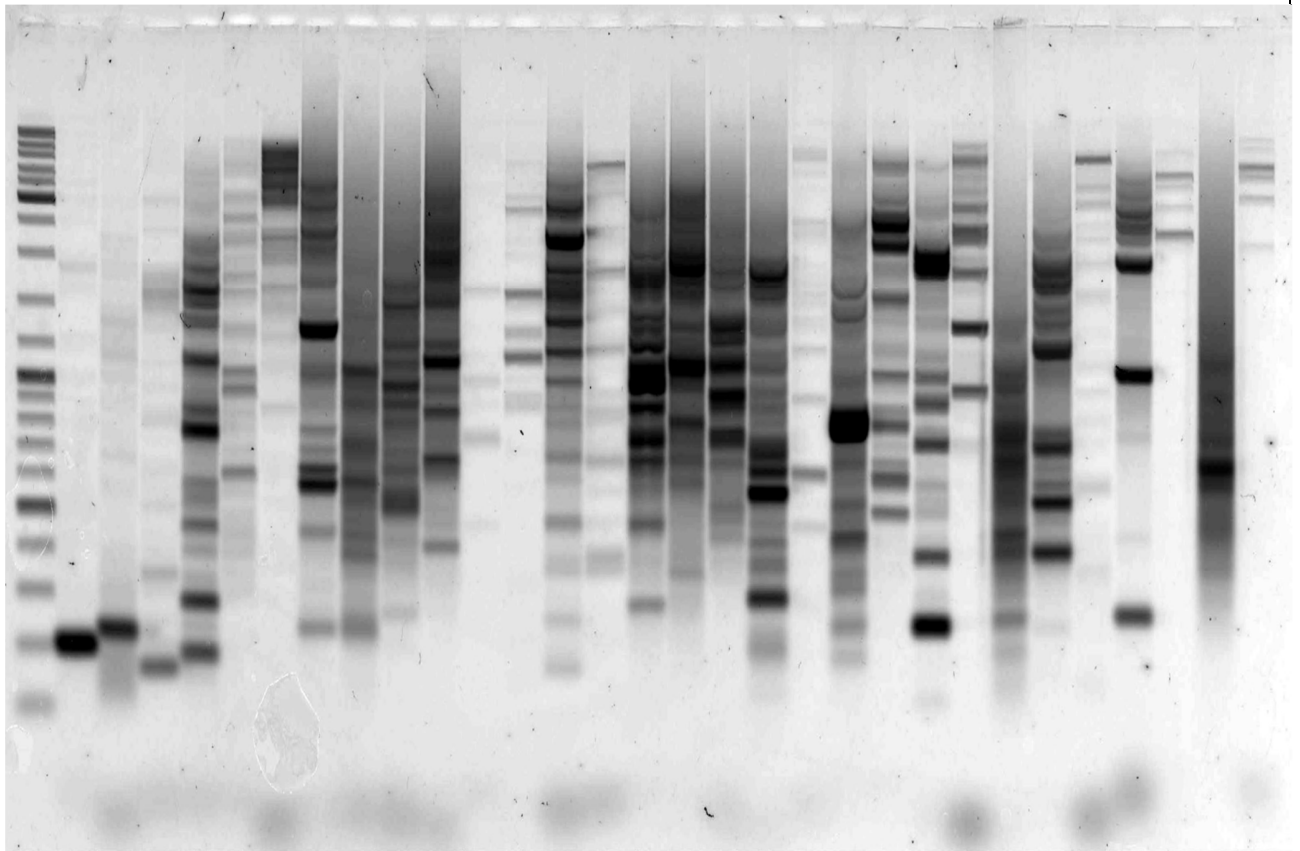
Number of reactions: 32
Reaction volume (µl): 20
Total reaction volume (µl): 640
Premix solution (µl):
Milli-Q water: 397.06
10x PCR buffer: 64
10 mM dNTP: 12.8
10 µM Forward primer: 32
5 U/µl Taq DNA polymerase: 6.144

16 µl of premix + 4 µl of DNA

95°C-3 min; **29X**(95°C-20sec;60°C-30sec;72°C-90sec); last elongation 72°C-5 min
Add 40µl 1X loading buffer; mix well, 10 µl loading in gel.
Electrophoresis with gel 1.2% agarose (1XTHE buffer) for a short time.

Primers: **4303-4332**

M 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32



seq_id	sequence	TEs Source	Tm (°C)	GC (%)	Linguistic Complexity (%)	Primer Efficiency (%)	in silico IRAP (number of amplicons)
4303	gacgtcctcttgcctccgtaagg	Huck	65,7	56,5	88	89	10
4304	tgtcgagtccttgctgacgt	Huck	64,3	55,0	84	95	13
4305	agagggttttggcaccctgttcg	Huck	66,1	54,5	88	93	1
4306	attactcgtcggtcacaggac	Huck	64,4	57,1	87	94	19
4307	acgcctataaaaggaaggtcca	Huck	61,7	45,5	88	73	4
4308	cactcggctctaagtgcacgt	Ji	62,0	55,0	92	48	30
4309	gacccggctctttgtgaccac	Ji	64,0	60,0	82	82	144
4310	ttgtgaccacctaacggggag	Ji	67,6	59,1	88	82	75
4311	ttgcaagaaccgaacctcggtta	Ji	64,7	50,0	90	66	70
4312	tgtgttgggcaattcaacca	Ji	61,1	45,0	82	73	275
4313	caagtaccactaatcactggagc	Opie	61,2	47,8	90	77	4
4314	tccttggccgctcataacc	Opie	65,6	60,0	92	79	9
4315	tcataaccgcgagcacggctgat	Opie	69,4	56,5	95	100	5
4316	atcctgtttggctgtagtggac	Opie	63,0	50,0	85	87	8
4317	gttcgcattcggtttgcctt	Opie	62,4	50,0	79	91	51
4318	gtttgccttctaaaaccgggt	Opie	61,6	47,6	87	66	27
4319	tgatgtgtactcacccttgc	Opie	60,3	50,0	87	87	100
4320	ggtgtgcggtcggacccaa	Grandel-4	68,8	68,4	78	92	8
4321	aagcatactcaccaggacgt	Grandel-4	61,6	50,0	95	90	1
4322	gcatacttaagcgcccgaaacctg	Grandel-4	70,5	62,5	93	92	8
4323	ctaggccttatatactcgaccgt	Grandel-4	61,2	47,8	88	78	6
4324	ggctccagcgcgggaaagtc	Grandel-4	69,7	70,0	84	80	0
4325	gtgggtaaaagttgtaccacctc	Tekay	61,2	50,0	85	70	0
4326	ccctggaaccgggtgtgaca	Tekay	67,9	65,0	82	88	0
4327	gtggaaatggatcctggcac	Tekay	61,9	55,0	82	91	1
4328	cagagccatgatagcactcgtgg	Tekay	65,9	56,5	93	90	2
4329	ttatcctgggtggtcactccatgttc	Tekay	66,7	50,0	82	70	3
4330	ttaccacaagccatgtatcc	Tekay	60,4	47,6	87	82	2
4331	gcatttgagaacaagtcccca	cinfull	61,3	47,6	87	76	209
4332	acaattatgccctcataaaagtttaca	cinfull	61,3	32,1	85	28	2