

Title: Association of genetic variants located at the Adenylate Cyclase 5 (ADCY5) and Parathyroid Hormone 1 Receptor (PTH1R) genes with type 2 Diabetes Mellitus in Bangladeshi population

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S1 Table: Forward and reverse primers for rs11708067 of *ADCY5* and rs11926707 of *PTH1R*

Forward primer of *ADCY5*: TGGGAGGATTATCAGGCTCTC

Reverse primer of *ADCY5*: GACTCAAGGGCTCAAGGTC

Forward Primer of *PTH1R*: CAGTGTGACCCAACAGAAGG

Reverse Primer of *PTH1R*: ACTCCATCCCTTCTCCATGC

Primer	Length	Tm	GC content (%)	Self – complementarity	3' complementarity	Hairpin	Product size (bp)
Forward primer of <i>ADCY5</i>	21	58.39	52.38	0.00	0.00	0.00	250
Reverse primer of <i>ADCY5</i>	19	57.46	57.89	0.00	0.00	0.00	
Forward primer of <i>PTH1R</i>	20	58.40	55.00	0.00	0.00	0.00	266
Reverse Primer of <i>PTH1R</i>	20	59.16	55.00	0.00	0.00	0.00	

S2 Table: Association of *ADCY5* variant rs11708067 and *PTH1R* variant rs11926707 with T2DM in low back pain patients

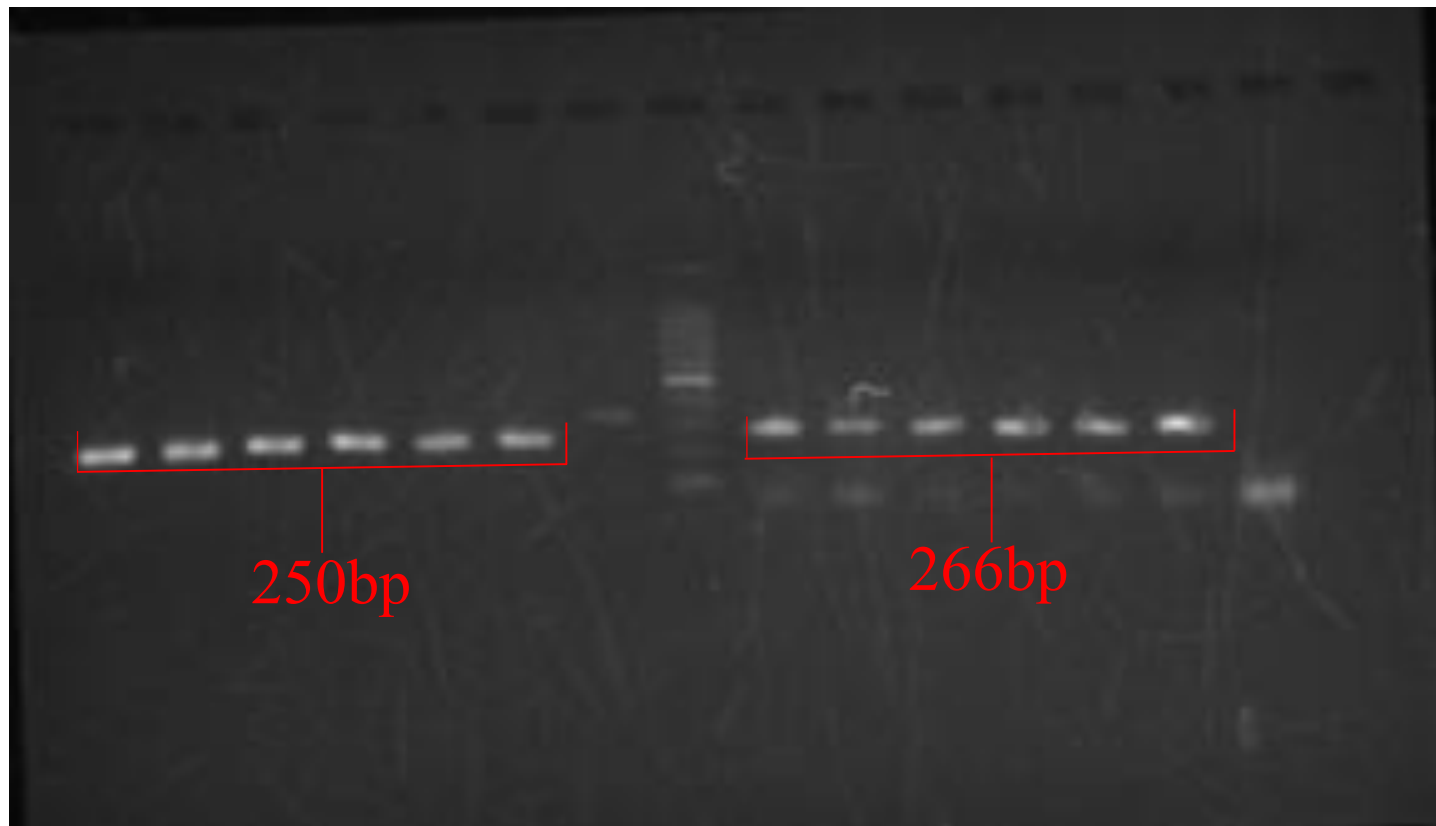
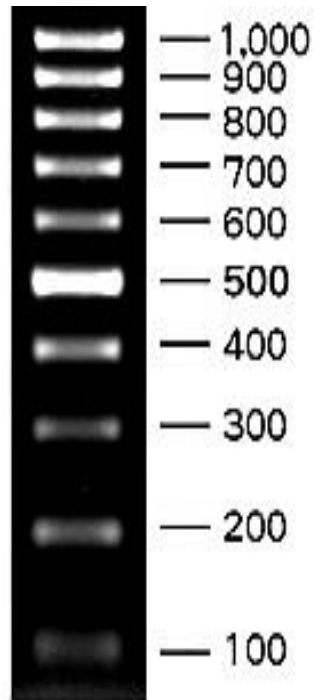
SNP		Genotype	DM+LBP vs Control			
			Odds ratio	P-value	Odds Ratio ^a	P-value ^a
rs11708067		A/G vs A/A	1.57 (0.87-3.06)	0.19	2.17 (0.65-7.26)	0.2
rs11926707	codominant	C/T vs C/C	1.33 (0.65-2.73)	0.24	1.11 (0.31-3.97)	0.12
		T/T vs C/C	0.56 (0.19-1.65)		0.15 (0.02-1.24)	
	dominant	C/T-T/T vs C/C	1.12 (0.56-2.22)	0.75	0.78 (0.24-2.58)	0.68
	recessive	T/T vs C/C-C/T	0.47 (0.17-1.28)	0.13	0.14 (0.02-1.02)	0.04

	over-dominant	C/T vs C/C-T/T	1.56 (0.81-3.00)	0.19	1.72 (0.54-5.48)	0.35
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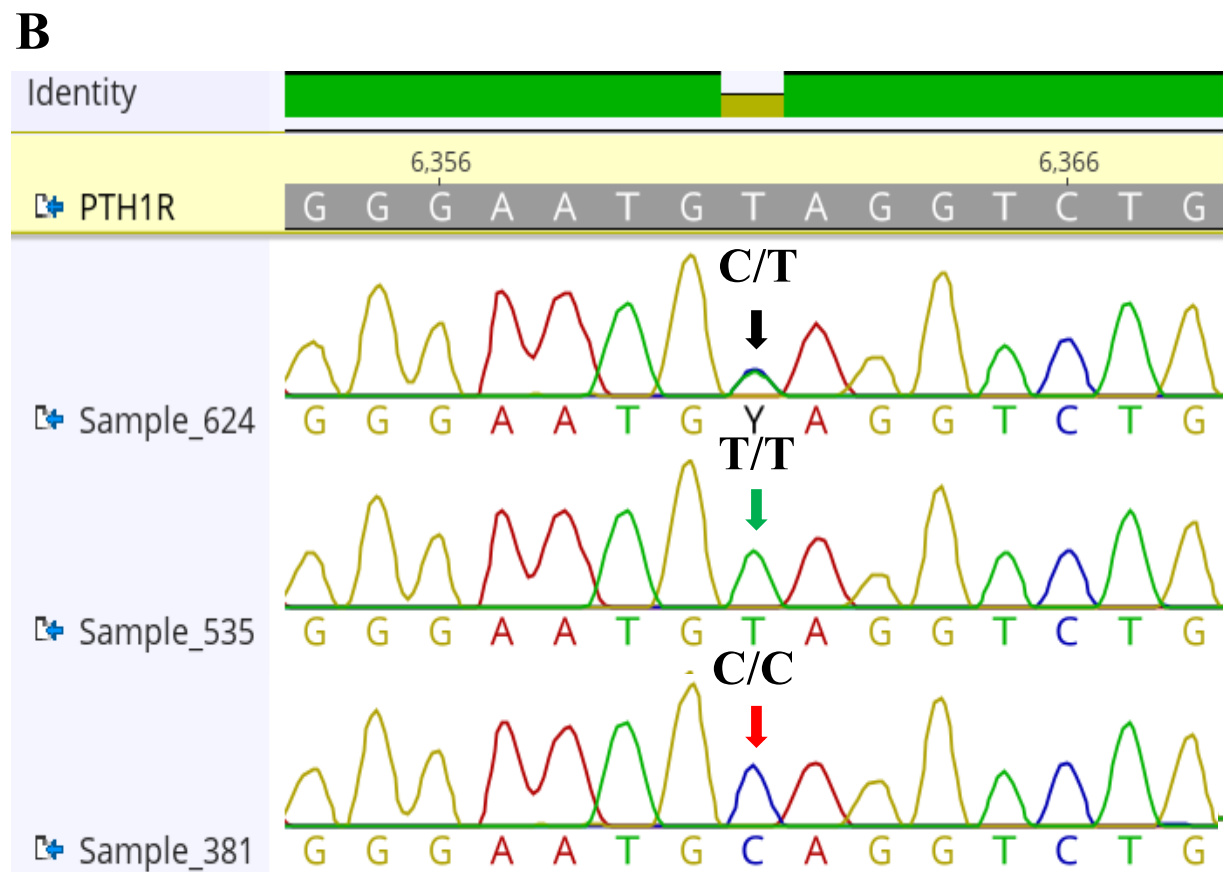
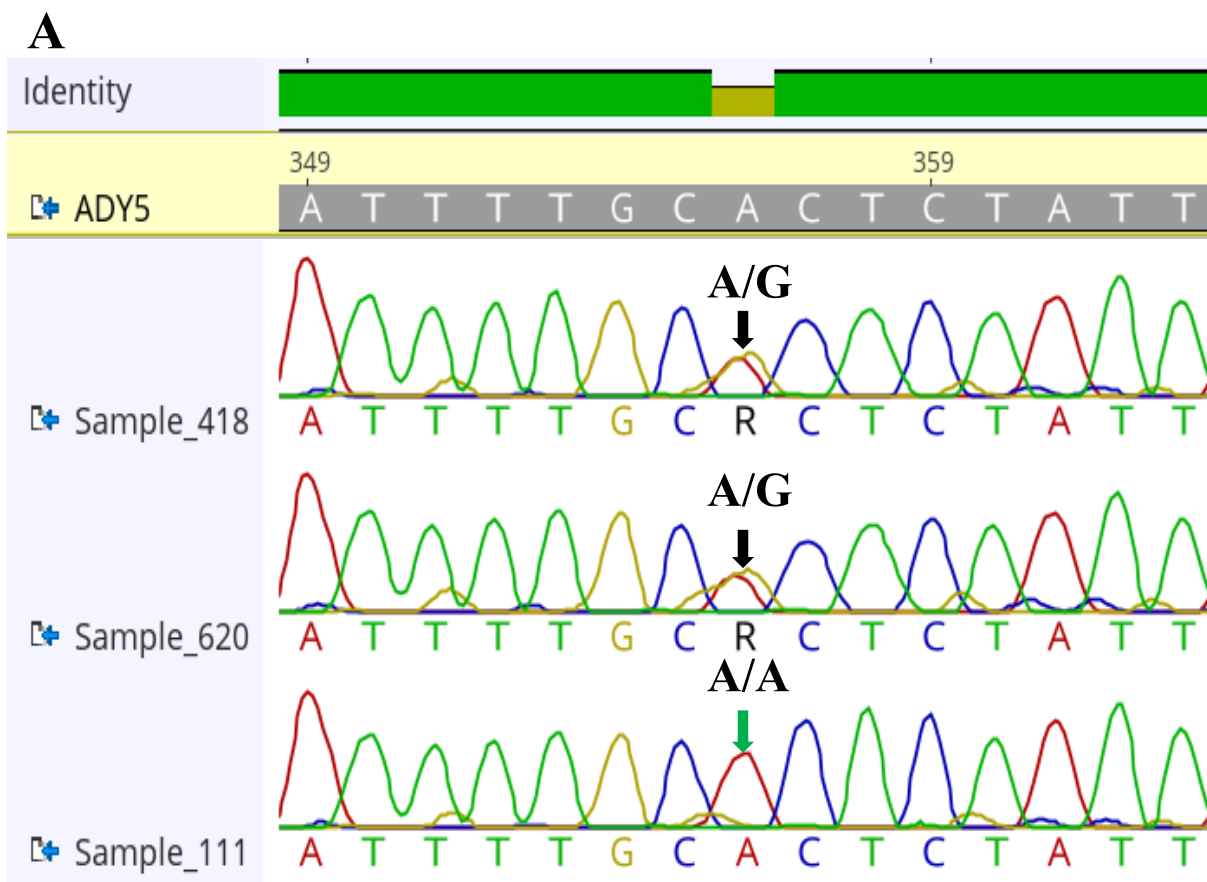
S3 Table: Association of *ADCY5* variant rs11708067 and *PTH1R* variant rs11926707 with low back pain in type 2 diabetic patients

SNP		Genotype	DM+LBP vs DM			
			Odds ratio	P-value	Odds Ratio ^a	P-value ^a
rs11708067		A/G vs A/A	1.01 (0.57-1.77)	0.99	1.02 (0.54-1.92)	0.96
rs11926707	codominant	C/T vs C/C	1.09 (0.59-2.02)	0.72	0.87 (0.44-1.73)	0.83
		T/T vs C/C	0.74 (0.27-2.03)		0.71 (0.22-2.26)	
	dominant	C/T-T/T vs C/C	1.03 (0.57-1.86)	0.93	0.84 (0.43-1.64)	0.62
	recessive	T/T vs C/C-C/T	0.70 (0.28-1.78)	0.45	0.77 (0.26-2.27)	0.64
	over-dominant	C/T vs C/C-T/T	1.17 (0.67-2.07)	0.58	0.94 (0.49-1.78)	0.85

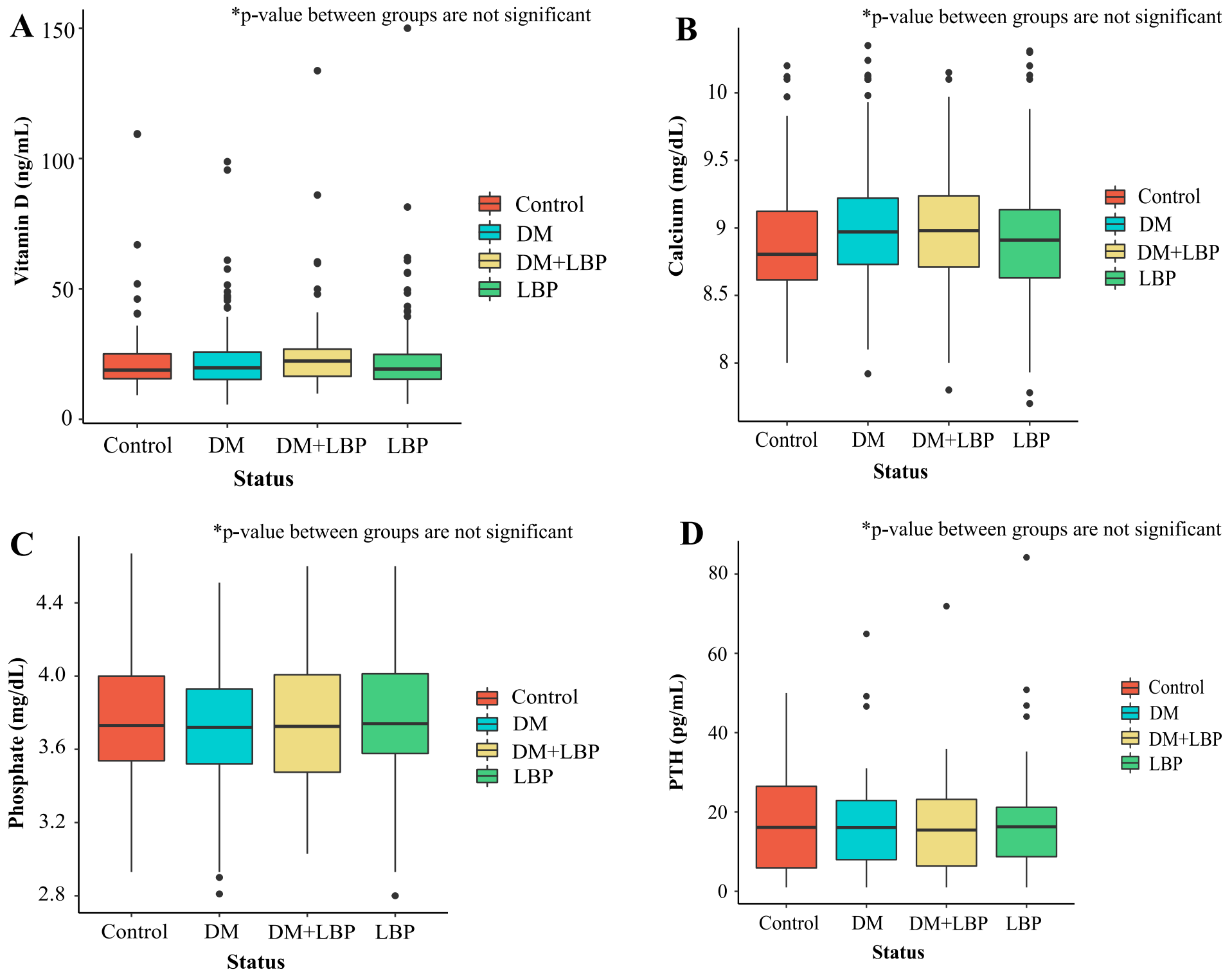
100 bp ladder



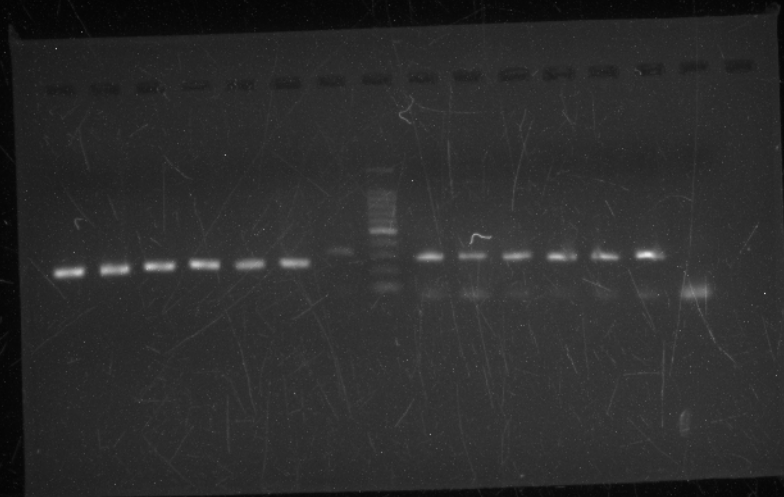
S1.Fig



S2.Fig



S3.Fig



S4.Fig