Fasciolopsis buski Detected in Humans in Bihar and Pigs in Assam, India

Appendix 2

MF287794_Vietnam KX169163_China MW767135_Sitamarhi_India MW767136_Sivasagar_India	10 20 30 40 50 60 DHKRIGFVYL VVGLWSGFLG LSLSMLIRLN YLDPYYNLIS PEVYNYLVTG HGIVMIFFFL C.I.I.I. I I I I I I
MF287794_Vietnam KX169163_China MW767135_Sitamarhi_India MW767136_Sivasagar_India	70 80 90 100 110 120 MPVLIGGFGN YLLPLLLGIG DLNLPRVNAL SVWLLLPSCV CLALSLIGGA GVGWTFYPPL
MF287794_Vietnam KX169163_China MW767135_Sitamarhi_India MW767136_Sivasagar_India	130 140 150 160 170 180 SASGYSGWGV DFMMFSLHLA GVSSIFSSIN FICTIVEVMF EEGTGRLSIL VWAYLFTSIL
MF287794_Vietnam KX169163_China MW767135_Sitamarhi_India MW767136_Sivasagar_India	
MF287794_Vietnam KX169163_China MW767135_Sitamarhi_India MW767136_Sivasagar_India	 250 260 SHICVTLTNN DSLFGYYGLV LX

Appendix 2 Figure 1. Alignment of the ITS2 gene region highlighting genetic variations (red) between *F. buski* isolates from India and from China and Vietnam.

MN970005_Vietnam EF612489_Vietnam China DQ351842_Meghalaya_India MW771525_Sitamarhi_India MW771526_Sivasagar_India KF564866_UP_India DQ351841_Meghalaya_India KF781306_Meghalaya_India	1 2.0 30 40 50 60 GCTTATAAAC TATCACGACG CCCAAAAAGT CGTGGCGTGGG CTTTTGCCAG CTGGCGTGAT
MN970005_Vietnam EF612489_Vietnam China DQ351842_Meghalaya_India MW771525_Sitamarhi_India MW771526_Sivasagar_India KF5648666_UP_India DQ351841_Meghalaya_India KF781306_Meghalaya_India	70 80 90 100 110 120 TTCCTCTATG ATTATTCATG TGAGGTGCCA GAACTATGGC GTTTCCCTAA TGTATCCGGA C.
MN970005_Vietnam EF612489_Vietnam China DQ351842_Meghalaya_India MW771525_Sitamarhi_India MW771526_Sivasagar_India KF564866_UP_India DQ351841_Meghalaya_India KF781306_Meghalaya_India	
MN970005_Vietnam EF612489_Vietnam China DQ351842_Meghalaya_India MW771525_Sitamarhi_India MW771526_Sivasagar_India KF564866_UP_India DQ351841_Meghalaya_India KF781306_Meghalaya_India	
MN970005_Vietnam EF612489_Vietnam China DQ351842_Meghalaya_India MW771525_Sitamarhi_India MW771526_Sivasagar_India KF564866_UP_India DQ351841_Meghalaya_India KF781306_Meghalaya_India	

Appendix 2 Figure 2. Alignment of the cox1 gene region highlighting genetic variations (red) between *F*. *buski* isolates from India and from China and Vietnam.

	10 20 30 40 50 50
MW767135_Sitamarhi_India MW767136_Sivasagar_India MF287794_Vietnam KX169163_China	GATCATAAGC STATTTGTT TATTTATTA ATASTTGGC TTTGAAGAG GTTTTTAGGG
MW767135_Sitamarhi_India MW767136_Sivasagar_India MF287794_Vietnam KK169163_China	70 80 90 100 110 120 TTGTCATTAA GTATGTAT ACGGTTGAAT TACTTGGATC CTTATTATAA TTTAATTTCT
MW767135_Sitamarhi_India MW767136_Sivasagar_India MF287794_Vietnam KX169163_China	
MW767135_Sitamarhi_India MW767136_Sivasagar_India ME287794_Vietnam KX169163_China	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1
MW767135 Sitamarhi_India MW767136 Sivasagar_India MF287794 Vietnam KX169163 China	GATTIGAAC TECCEGRAT TAATGCTITE AGGGTITGGT GTTGTTATCC TECTAGTAT TAATGCTITE AGGGTITGGT GTTGTTCC TECTAGTGT T. AG. AAGA. ACT.C. T. AG. AAGA. ACT.
MW767135_Sitamarhi_India MW767136_Sivasagar_India MF287794_Vietnam KX169163_China	310 320 330 340 350 360 TGCTTGGCT TGGGTTGTT TGGGTGGTGT TGGGTGGTGT TGGGTGGTGT TGGGTGGTGT
MW767135 Sitamarhi India MW767136 Sivasagar_India MF287794_Vietnam KX169163_China	370 380 390 400 410 420 TCTAGTTITG GTTATCTGG TTGGGGAGTT GATTTTTTGA TGTTTTCTTT GCATTTGGCG
MW767135_Sitamarhi_India MW767136_Sivasagar_India MF287794_Vietnam KX169163_China	430 440 450 460 470 480 GGGGTTTCTA GTATTTTTAG GTCTATTATTTGTA CTATAGTGGA AGTGATGTTT , A, T, G., T, T, G., T, T, G., T, T, G., T, G., T, T, T, G., T, T, T, G., T, T, T, G., T,
MW767135_Sitamarhi_India MW767136_Sivasagar_India ME287794_Vietnam KX169163_China	1 1
MW767135_Sitamarhi_India MW767136_Sivasagar_India ME287794_Vietnam KX169163_China	550 560 570 580 590 600 TTGCTTTFGC TTGGCTGC CGTATARCA TGTGTGTGCTGC TGGTGCGC TGGTGCGC A. A. T A. T A. A. T T
MW767135_Sitamarhi_India MW767136_Sivasagar_India ME287794_Vietnam KX169163_China	610 620 630 640 650 660 TTTGGCTCTG CCTTTTTTGA TCCTATGGGG GGGGGAGATC CAGTGTTATT TCAGCATTTG
MW767135_Sitamarhi India MW767136_Sivasagar_India MF287794_Vietnam KX169163_China	670 680 690 700 710 720 TTTIGGTTTT TTGGCARCC GGAGGTTTA GTTTTGATTT TGCCGGGGTT TGGTGTTATT CG. AG. G. CG. AG. G. G. G. G.
MW767135_Sitamarhi_India MW767136_Sivasagar_India MF287794_Vietnam KX169163_China	730 740 750 760 770 780 AGACATATIT GTGTACTIT AACTAATAAA GATCCTTTGT TTGGTTATTA TGGTCTTGTT
MW767135 Sitamarhi India MW767136 Sitamarhi India MF287794 Vietnam KX169163 China	TTGG

Appendix 2 Figure 3. Alignment of the translated cox1 gene region highlighting genetic variations (red) between *F. buski* isolates from India and from China and Vietnam.