

Supplementary material

Appendix 1

Alignments of 6 β -defensin genes obtained from great tits (*Parus major*). Red bars correspond to the exon coding for the mature peptide.

1 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 176

AvBD12_GT1 TCCAC TAA TTG CTG CTCC C TCA TTCAGGAGATG CTCAGGGACCAGACAGCTG TAA CCA CAGAGGGGG CTTGTG CCGAGTGGGAA CCTGTG TTTCTGG TGAA TACC CGGCTCAGTACTG CTTG AACCCATCATTCTCTG CTGCAAAA TCTGCTA CCTGCCACCA CAGGGAG CTG
 Frame I S T N L L L P H S G D A Q G P D S C N H R G G L C R V G T C V S G E Y P A Q Y C F E P I I L C C K N L L P A T T G S

AvBD12_GT3TG.C.....
 Frame IC.P.....P.....

AvBD12_GT5G.....
 Frame IG.....

AvBD12_GT6A.....
 Frame IA.....

AvBD12_GT7A.....G.....
 Frame IA.....D.....

AvBD12_GT8A.....G.....G.....
 Frame IA.....D G.....

AvBD12_GT9A.....G.....G.....
 Frame IA.....G.....

AvBD12_GT10A.....C.....G.....
 Frame IA.....H.....G.....

AvBD12_GT11A.....
 Frame IA.....

1 10 20 30 40 50 60 70 80 90 100 110 120 130 137

AvBD9_GT1 CTTACAG CCAGGAAACCGCTGACA CCCTCGCTTG CCGG CAGAGCCGGGGCT CCTG CTCCTTCGTG CCCTGCT CTG CTCCTCTGGTTGACATCGGGA CCTGCCG CGGTGGGAAG CTAAGATGCTGCAAATGGTAAGAG
 Frame 3 Y S Q E T A D T L A C R Q S R G S C S F V P C S A P L V D I G T C R G G K L R C C K W * E