

APPENDIX A

The protein multiple alignment results of the COII, COIII, ND1, ND3, ND4L, ND4 and ND6 loci

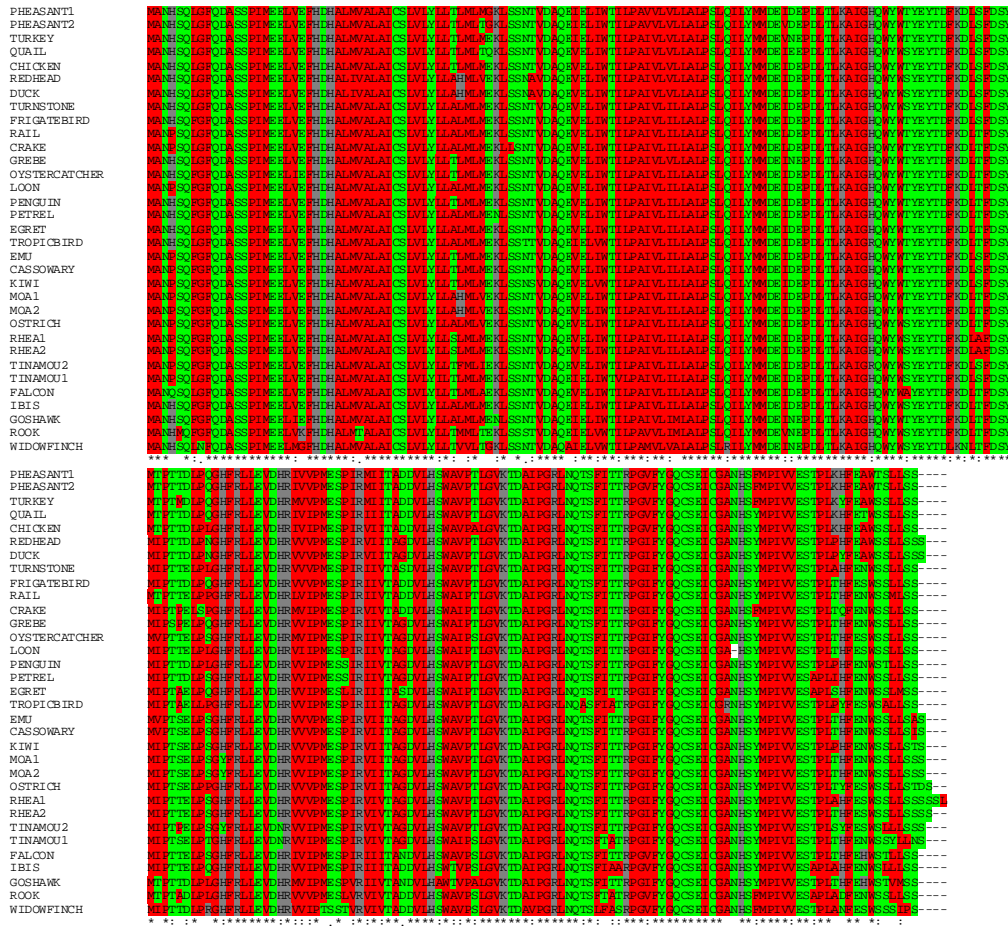


Figure A.1: Protein alignment of COII gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, and basic is grey.



Figure A.2: Protein alignment of COIII gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, acidic is pink and basic is grey.



Figure A.3: Protein alignment of ND1 gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, acidic is pink and basic is grey.

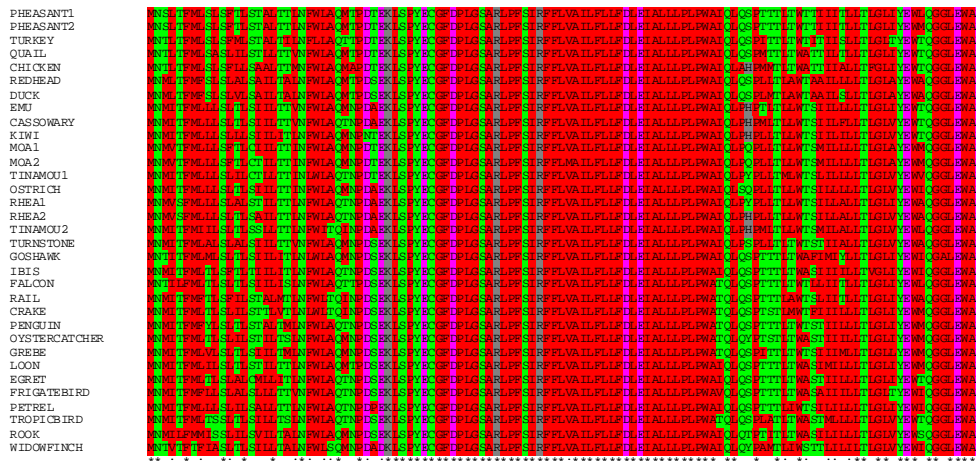


Figure A.4: Protein alignment of ND3 gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, acidic is pink and basic is grey.

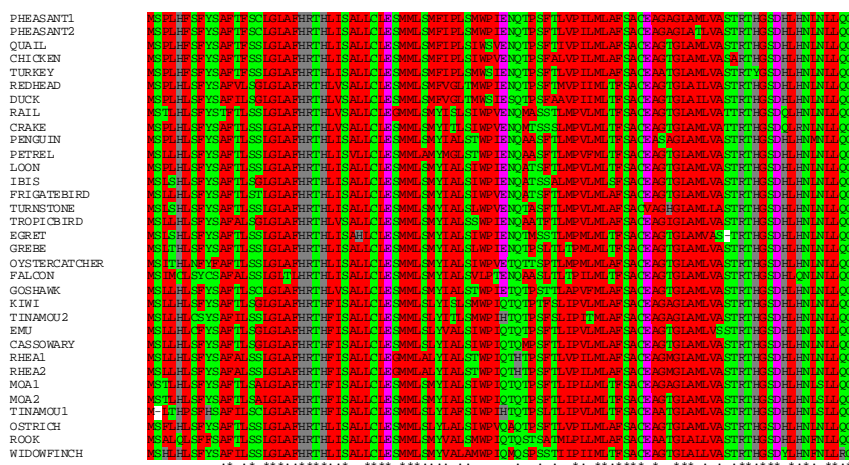


Figure A.5: Protein alignment of ND4L gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, acidic is pink and basic is grey.

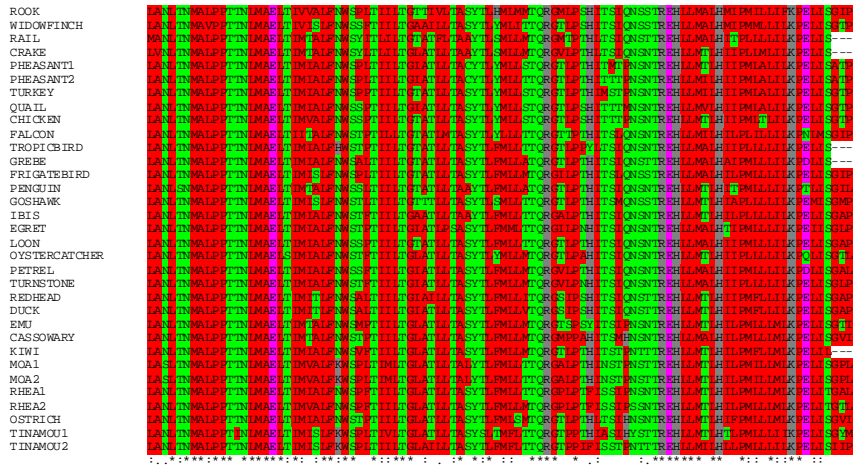


Figure A.6: Protein alignment of ND4 gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, acidic is pink and basic is grey.

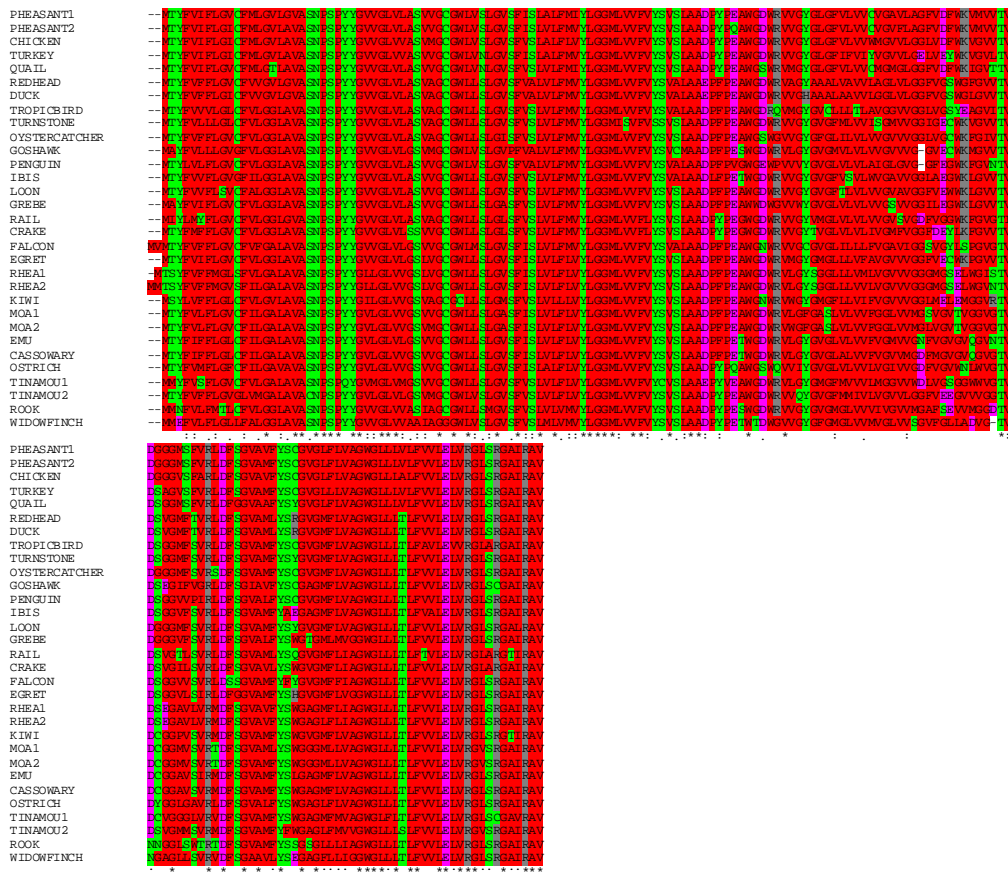


Figure A.7: Protein alignment of ND6 gene in 33 different avian species using MEGA4 program. The different colours are used to indicate the different groups of amino acid based on their side chain properties; where polar is green, non-polar is red, acidic is pink and basic is grey.