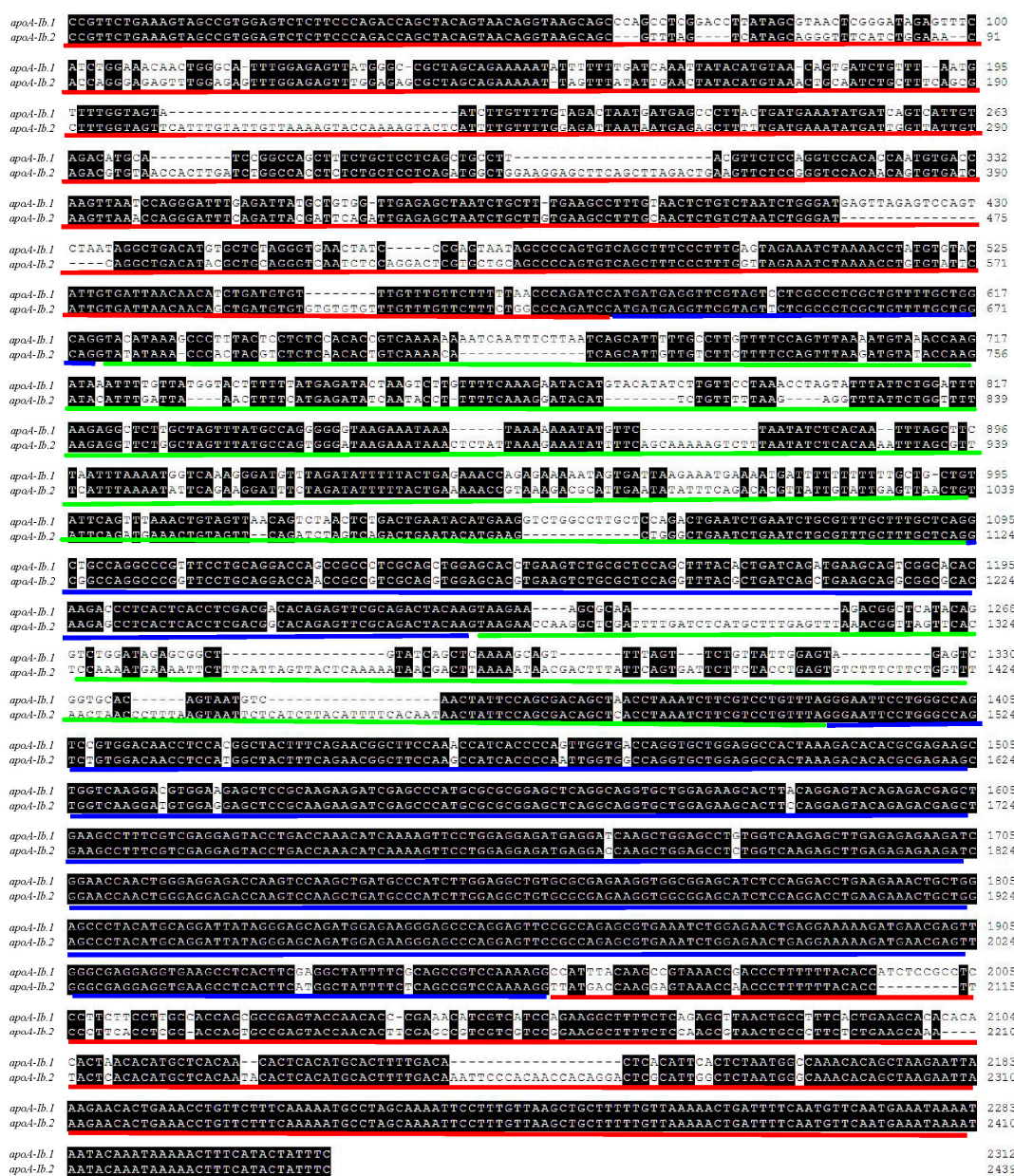


# Supplementary Materials: Molecular Characterization and Growth Association of Two Apolipoprotein A-Ib Genes in Common Carp (*Cyprinus carpio*)

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**Figure S1.** Comparison of the nucleotide sequences of two *apoA-Ibs* in common carp. Identity is covered with black color. The UTRs, exons and introns were underlined with red color and green color respectively.

**Table S1.** Information of 63 amino acids sequences in phylogenetic analysis.

Species	Protein	GenBank Accession No.	The Number of Amino Acids
<i>Ailuropoda melanoleuca</i>	ApoA-I	XP_002919539	266
<i>Alligator sinensis</i>	ApoA-I	XP_006030393	259
<i>Anguilla japonica</i>	ApoA-I	AB219180	263
<i>Aristiclutys nobilia</i>	ApoA-I	unpublished result	257
<i>Astyanax mexicanus</i>	ApoA-I	XM_007239417	260
<i>Bos taurus</i>	ApoA-I	NP_776667	265
<i>Callithrix jacchus</i>	ApoA-I	XP_009005100	263
<i>Callorhynchus milii</i>	ApoA-I	XP_007905508	261
<i>Canis lupus familiaris</i>	ApoA-I	XP_013968873	266
<i>Channa striata</i>	ApoA-I	AIL82447	273
<i>Cirrhinus molitorella</i>	ApoA-I	GU139545	257
<i>Clupea harengus</i>	ApoA-I	XM_012828452	262
<i>Columba livia</i>	ApoA-I	XP_005500766	264
<i>Coturnix japonica</i>	ApoA-I	XP_015739386	264
<i>Cynoglossus semilaevis</i>	ApoA-I	XP_008307644	268
<i>Cyprinus carpio</i>	ApoA-I	KF268349	257
<i>Cyprinus carpio</i>	ApoA-Ib.1	KJ741859	257
<i>Cyprinus carpio</i>	ApoA-Ib.2	KJ741860	257
<i>Danio rerio</i>	ApoA-Ia	NP_571203	262
<i>Danio rerio</i>	ApoA-Ib	NP_001093614	257
<i>Equus asinus</i>	ApoA-I	XP_014711022	266
<i>Erinaceus europaeus</i>	ApoA-I	XP_007523042	265
<i>Esox lucius</i>	ApoA-I	XP_010895444	260
<i>Felis catus</i>	ApoA-I	XP_011284668	266
<i>Gallus gallus</i>	ApoA-I	NP_990856	264
<i>Gekko japonicus</i>	ApoA-I	XP_015283537	272
<i>Gobiocypris rarus</i>	ApoA-I	ABY47600	256
<i>Hemibarbus mylodon</i>	ApoA-I.1	FJ170104	257
<i>Hemibarbus mylodon</i>	ApoA-I.2	FJ170105	262
<i>Homo sapiens</i>	ApoA-I	NP_000030	267
<i>Hypophthalmichthys molitrix</i>	ApoA-I	ADF97611	257
<i>Ictalurus furcatus</i>	ApoA-I	NP_001187398	258
<i>Ictalurus punctatus</i>	ApoA-I	NP_001187398	258
<i>Labeo rohita</i>	ApoA-I	KC934748	256
<i>Latimeria chalumnae</i>	ApoA-I	XP_005987291	237
<i>Leptonychotes weddellii</i>	ApoA-I	XP_006743516	266
<i>Lipotes vexillifer</i>	ApoA-I	XP_007461913	265
<i>Macaca mulatta</i>	ApoA-I	XP_001090774	267
<i>Morone saxatilis</i>	ApoA-I	ACH90228	190
<i>Mus musculus</i>	ApoA-I	NP_033822	264
<i>Notothenia coriiceps</i>	ApoA-I	XP_010792180	263
<i>Oncorhynchus mykiss</i>	ApoA-I.1	NP_001117719	262
<i>Oncorhynchus mykiss</i>	ApoA-I.2	NP_001117720	262
<i>Orcinus orca</i>	ApoA-I	XP_004273413	265
<i>Oreochromis niloticus</i>	ApoA-I	CCF55060	263
<i>Oryctolagus cuniculus</i>	ApoA-I	NP_001095157	265
<i>Pan paniscus</i>	ApoA-I	XP_003820129	267
<i>Pelodiscus sinensis</i>	ApoA-I	XP_006121737	262

Table S1. Cont.

Species	Protein	GenBank Accession No.	The Number of Amino Acids
<i>Physeter catodon</i>	ApoA-I	XP_007117218	265
<i>Platichthys flesus</i>	ApoA-I	CAH59609	263
<i>Poecilia formosa</i>	ApoA-I	XP_007576027	263
<i>Poecilia reticulata</i>	ApoA-I	XP_008424299	263
<i>Python bivittatus</i>	ApoA-I	XP_015747026	261
<i>Rattus norvegicus</i>	ApoA-I	NP_036870.1	259
<i>Rhinopithecus roxellana</i>	ApoA-I	XP_010369999	267
<i>Salmo salar</i>	ApoA-I	NP_001134612	262
<i>Salmo trutta</i>	ApoA-I	Q91488	262
<i>Serinus canaria</i>	ApoA-I	XP_009096256	264
<i>Sinocyclocheilus anshuiensis</i>	ApoA-I.1	XM_016454056	257
<i>Sinocyclocheilus anshuiensis</i>	ApoA-I.2	XM_016531543	257
<i>Sparus aurata</i>	ApoA-I	O42175	260
<i>Sus scrofa</i>	ApoA-I	NP_999563	264
<i>Xenopus laevis</i>	ApoA-I	NP_001079732	260