
Integrating genome and transcriptome profiling for elucidating the mechanism of muscle growth and lipid deposition in pekin ducks

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Table S1. Whole genome sequencing data summary

Name	Data_size (Gb)	Q30(%)	Read(M)	Total mapped rate	Unique mapped rate	snp_count	Transitions	Transversions	ts/tv
CD1	7.38	96.22	24.6	90.88%	75.14%	1654400	1136812	519017	2.19
CD11	6.98	96.41	23.27	89.97%	74.45%	1660914	1143108	519401	2.2
CD21	7.16	96.53	23.87	89.32%	73.76%	1692258	1163074	530719	2.19
CD22	7.22	96.37	24.07	90.52%	75.09%	1618953	1112053	508318	2.19
CD28	7.5	95.27	25	90.37%	74.12%	1721015	1182504	540170	2.19
CD30	7.56	94.26	25.2	91.25%	74.09%	1653456	1135968	519057	2.19
CD32	6.91	94.83	23.03	91.16%	73.53%	1769649	1217495	554045	2.2
CD33	7.52	94.48	25.07	89.75%	72.33%	1808478	1244871	565659	2.2
CD5	7.84	96.37	26.13	88.87%	73.34%	2001187	1377651	625622	2.2
PD1	7.11	94.46	23.7	90.09%	72.93%	1622718	1115058	509161	2.19
PD23	8.86	94.57	29.53	90.07%	72.84%	1812808	1246163	568736	2.19
PD27	6.8	94.93	22.67	92.54%	75.29%	1647473	1129732	519218	2.18
PD29	7.389	93.35	24.63	91.83%	74.39%	1613048	1107035	507329	2.18
PD30	7.38	93.25	24.6	88.28%	70.46%	1729548	1190946	540295	2.2
PD35	7.32	94.53	24.4	91.08%	73.77%	1724562	1187199	538933	2.2
PD4	7.63	93.64	25.43	90.10%	72.50%	1655858	1140470	516915	2.21
PD6	6.76	94.71	22.53	90.00%	72.79%	1727850	1189817	539828	2.2
PD7	7.78	94.03	25.93	89.80%	72.97%	1686928	1162704	525843	2.21

Table S2. The SNP distribution in WGS data

Location	Number of SNPs	Percents (%)
Promoter	159,277	3.786
Exon	75,489	1.794
Intergenic	1,956,351	46.505
Intron	2,015,674	47.915
In total	4,206,791	100

Table S3. 206 Positively Selected Genes Screened by Z(Fst) and Tajima'D

Gene Symbale	Gene Description	Ensembl ID	Z(Fst)	Tajima'D
ABHD17B	Abhydrolase domain-containing protein FAM108B1(ABHD17B)	ENSAPLGG00000015189	1.720992	0.023357
ACOT12	Acyl-coenzyme A thioesterase 12	ENSAPLGG00000005659	1.62897	0.952112
ACTL7A	Actin-like protein 7A(ACTL7A)	ENSAPLGG00000015520	1.00129	-1.26449
ADGRA3	Putative G-protein coupled receptor 132/adhesion G protein-coupled receptor A3	ENSAPLGG00000009086	0.927988	1.06656
ADGRG1	Adhesion G-protein coupled receptor G1	ENSAPLGG00000004555	0.866402	0.34135
ADGRG5	Putative G-protein coupled receptor 114	ENSAPLGG00000005105	1.033072	0.431343
ALDH1A1	Retinal dehydrogenase 1	ENSAPLGG00000004796	1.340922	0.532389
AMMECR1L	AMMECR1-like protein	ENSAPLGG00000009785	1.096388	0.020554
ANAPC13	Anaphase-promoting complex subunit 13	ENSAPLGG00000005486	0.91139	0.829722
APTIX	Aprataxin	ENSAPLGG00000015645	1.00129	-0.54517
ARFIP2	Arfaptin-2	ENSAPLGG00000009223	1.278334	0.569397
ARHGAP15	Rho GTPase-activating protein 15	ENSAPLGG00000008021	0.849965	0.946363
ARL2BP	ADP-ribosylation factor-like protein 2-binding protein	ENSAPLGG00000012932	1.423807	0.661077
ARSJ	Arylsulfatase J	ENSAPLGG00000008292	0.899316	0.646206
ATG16L1	Autophagy-related protein 16-1	ENSAPLGG00000013322	1.42649	0.324203
ATP9B	Putative phospholipid-transporting ATPase IIB	ENSAPLGG00000013079	0.938982	0.268392
B4GALT1	Beta-1,4-galactosyltransferase 1	ENSAPLGG00000016180	1.00129	-1.08195
BRSK2	BR serine/threonine-protein kinase 2	ENSAPLGG00000009397	1.876733	0.578484
CACYBP	Calcyclin-binding protein	ENSAPLGG00000003474	0.920247	0.65618
CARNMT1	Carnosine N-methyltransferase 1	ENSAPLGG00000014643	1.780918	0.839717
CAST	Calpastatin	ENSAPLGG00000006179	1.489972	1.0417
CCDC102A	Coiled-coil domain-containing protein 102A	ENSAPLGG00000005216	0.891736	0.315639
CDC42SE2	CDC42 small effector protein 2	ENSAPLGG00000005896	0.967515	0.511765
CDH2	Cadherin-2	ENSAPLGG00000004203	0.927093	-0.2829
CDK2AP1	Cyclin-dependent kinase 2-associated protein 1	ENSAPLGG00000016031	1.014977	1.04597
CDK7	Cell division protein kinase 7	ENSAPLGG00000005769	1.425553	-0.15003
CEP63	Centrosomal protein of 63 kDa	ENSAPLGG00000005488	0.91139	0.829722
CIT	Citron Rho-interacting kinase	ENSAPLGG00000009657	1.780369	0.827418
CITED2	Cbp/p300-interacting transactivator 2	ENSAPLGG00000001420	0.895483	0.48714
CPNE2	Copine-2	ENSAPLGG00000013415	0.925139	0.34135
CTRL	Chymotrypsin-like protease CTRL-1	ENSAPLGG00000008866	1.010012	-0.63174
CWC15	Protein CWC15-like protein A (cwc15-a)	ENSAPLGG00000003221	1.214443	0.582193
DAB2	Disabled homolog 2	ENSAPLGG00000009262	0.919547	-1.06539
DARS2	Aspartyl-tRNA synthetase, mitochondrial	ENSAPLGG00000009344	0.917308	0.898943
DCHS1	Protocadherin-16	ENSAPLGG00000010011	1.057333	-0.30604
DERL1	Derlin-1	ENSAPLGG00000011042	1.033205	0.945422
DFNB59	Pejvakin	ENSAPLGG00000012766	0.961566	0.177478
DGKD	Diacylglycerol kinase delta	ENSAPLGG00000012041	1.750793	1.02807
DGKQ	Diacylglycerol kinase theta	ENSAPLGG00000016272	1.871217	0
DHRS12	Dehydrogenase/reductase SDR family member 12(DHRS12)	ENSAPLGG00000007313	2.271036	0.161541
DHX29	ATP-dependent RNA helicase DHX29	ENSAPLGG00000009145	0.865901	0.261639
DNAJA1	DnaJ-like protein subfamily A member 1	ENSAPLGG00000015760	1.00129	-0.10852
DOK4	Docking protein 4	ENSAPLGG00000005258	1.033072	0.34135
DSP	Desmoplakin	ENSAPLGG00000003818	1.238944	0.720496
DUS3L	tRNA-dihydrouridine synthase 3-like	ENSAPLGG00000004636	2.470186	0.367629
EDC4	Enhancer of mRNA-decapping protein 4	ENSAPLGG00000009238	0.964473	-0.12122
EFHD1	EF-hand domain-containing protein D1	ENSAPLGG00000000594	1.14565	0.25345
EGFLAM	Pikachurin/EGF like, fibronectin type III and laminin G domains	ENSAPLGG00000010255	0.959086	0.644046
ENDOD1	Endonuclease domain-containing 1 protein	ENSAPLGG00000003433	1.203217	0.582193
ENPP1	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1	ENSAPLGG00000009457	0.840257	-2.0924
ENPP3	Ectonucleotide pyrophosphatase/phosphodiesterase family member 3	ENSAPLGG00000009807	1.92062	-1.4781
EPHB1	Ephrin type-B receptor 1	ENSAPLGG00000005830	0.811793	1.0807
ERAP1	Endoplasmic reticulum aminopeptidase 1(Erap1)	ENSAPLGG00000006509	1.292955	0.953976
ESM1	Endothelial cell-specific molecule 1	ENSAPLGG00000004722	0.945517	0.715846
F10	Coagulation factor X	ENSAPLGG00000002945	1.195976	0.789509
FABP5	Fatty acid-binding protein, epidermal	ENSAPLGG00000006597	1.685899	1.158337
FAM192A	NEFA-interacting nuclear protein NIP30	ENSAPLGG00000013298	1.2066	1.06086
FAM83A	Protein FAM83A	ENSAPLGG00000010979	0.883134	1.00094
FKBP7	Peptidyl-prolyl cis-trans isomerase FKBP7	ENSAPLGG00000013044	1.083927	0.059435
FLT1	Vascular endothelial growth factor receptor 1/Fms related tyrosine kinase 1	ENSAPLGG00000006689	2.329034	0.648954
FOXI3	Forkhead box protein I1	ENSAPLGG00000001701	0.860666	0.672675
GALNT7	N-acetylgalactosaminyltransferase 7	ENSAPLGG00000003409	0.832724	0.682728
GAS2L3	Protein FAM98A	ENSAPLGG00000013956	1.559584	0.354261
GDA	Guanine deaminase	ENSAPLGG00000015274	0.994974	0.67771
GIGYF2	PERQ amino acid-rich with GYF domain-containing protein 2	ENSAPLGG00000014162	0.879092	0.246058
GPI	Glucose-6-phosphate isomerase	ENSAPLGG00000010107	0.864915	0.734558
GPR17	Putative G-protein coupled receptor 97	ENSAPLGG00000000907	0.801899	-0.61206
GPX8	Putative glutathione peroxidase 8-B	ENSAPLGG00000009098	0.813779	0.491033
GRXCR1	Glutaredoxin domain-containing cysteine-rich protein 1	ENSAPLGG00000009269	0.80999	0.413644
GZMA	Granzyme A	ENSAPLGG00000004213	0.946069	0.511765
HECA	Headcase protein-like protein	ENSAPLGG00000003922	1.271568	0.648954
HMCN1	Hemicentin-1	ENSAPLGG00000011251	1.726164	0
HMGB2	High mobility group protein B2	ENSAPLGG00000003284	0.930026	0.302707
HPX	Hemopexin	ENSAPLGG00000008972	0.938767	-0.30604
HS6ST1	Heparan-sulfate 6-O-sulfotransferase 1	ENSAPLGG00000007002	0.998333	-0.58604
IKBKAP	Elongator complex protein 1(IKBKAP)	ENSAPLGG00000014409	0.903219	-1.08195
ILK	Integrin-linked protein kinase	ENSAPLGG00000009542	1.018462	0.569397
INSIG1	Insulin-induced gene 1 protein	ENSAPLGG00000007430	0.952497	0.878962
IWS1	Protein IWS1 homolog	ENSAPLGG00000011485	2.122438	0.585745
JAG2	Protein jagged-2	ENSAPLGG00000004118	0.996992	1.0076
KATNBL1	Katanin regulatory subunit B1 like 1	ENSAPLGG00000004713	0.994259	0.918893
KCNK18	Potassium channel subfamily K member 18	ENSAPLGG00000010704	0.968188	0.789509
KCNMB2	Calcium-activated potassium channel subunit beta-2	ENSAPLGG00000013434	1.405168	-0.35665
KY	Kyphoscoliosis peptidase	ENSAPLGG00000005689	0.91139	0.488917
LCMT2	Leucine carboxyl methyltransferase 2	ENSAPLGG00000010069	0.878237	0.5433

LIMS2	LIM and senescent cell antigen-like-containing domain protein 2	ENSAPLG00000010258	0.912341	0.581031
LIPH	Lipase member H	ENSAPLG00000005090	1.793805	0.829722
LOC101789877	F-box/WD repeat-containing protein 7	ENSAPLG00000009463	1.072061	0.411715
LOC101801055	UPF0600 protein	ENSAPLG000000011429	0.952916	-0.45944
LOC101801209	Metastasis suppressor protein 1	ENSAPLG000000007146	1.250483	0.48062
LOC101801727	Selenium-binding protein 1-A	ENSAPLG000000010148	1.526292	0.966677
LOC101803127	Transmembrane protein ENSP00000382582	ENSP00000382582	0.8659	-1.73768
LOC101804425	Tubulin alpha-2 chain	ENSAPLG000000007864	1.07018	1.02994
LSP1	Lymphocyte-specific protein 1	ENSAPLG000000011632	1.180634	0.33643
LTBP1	Latent-transforming growth factor beta-binding protein 1(Ltbp1)	ENSAPLG000000012621	1.724828	1.05862
MAP3K13	Mitogen-activated protein kinase kinase kinase 13	ENSAPLG000000004597	0.809557	0.773791
MED23	Mediator of RNA polymerase II transcription subunit 23	ENSAPLG000000010330	1.3967	-1.0614
MEF2A	Myocyte-specific enhancer factor 2A	ENSAPLG000000007352	1.290035	-1.38531
MKLN1	Muskelin	ENSAPLG000000003364	2.414354	0.519611
MOB2	Mps one binder kinase activator-like 2	ENSAPLG000000009842	1.873221	0.33643
MPHOSPH9	M-phase phosphoprotein 9	ENSAPLG000000016075	1.014977	1.04597
MRPL23	39S ribosomal protein L23, mitochondrial	ENSAPLG000000012955	1.025438	1.06745
MRPL53	39S ribosomal protein L53, mitochondrial	ENSAPLG000000006944	1.099508	0.858337
MRPS14	28S ribosomal protein S14, mitochondrial	ENSAPLG000000003382	0.916052	-0.22621
MRPS36	28S ribosomal protein S36, mitochondrial	ENSAPLG000000005421	1.425553	0.562068
MTMR12	Myotubularin-related protein 12	ENSAPLG000000013094	2.751323	-1.17276
MTSS1	Metastasis suppressor protein 1(MTSS1)	ENSAPLG000000015070	2.861473	1.00324
MTX3	Metaxin-3	ENSAPLG000000006896	0.960027	0.409689
MYO7B	Unconventional myosin-VIIb(MYO7B)	ENSAPLG000000010464	2.124102	-1.84836
NCSTN	Nicastrin	ENSAPLG000000014723	0.945516	-0.31438
NEU2	Sialidase-2/Neuraminidase 2	ENSAPLG000000013917	1.217374	0.899084
NGEF	Ephexin-1	ENSAPLG000000013970	0.820379	0.517968
NMRK1	Nicotinamide riboside kinase 1	ENSAPLG000000014721	1.567147	0.839717
NPR3	Atrial natriuretic peptide clearance receptor	ENSAPLG000000016025	1.16917	-1.56262
NUDT14	Uridine diphosphate glucose pyrophosphatase	ENSAPLG000000003998	1.208367	0.451212
NUP155	Nuclear pore complex protein Nup155	ENSAPLG000000008857	0.807714	-0.99801
NUTF2	Nuclear transport factor 2	ENSAPLG000000009210	0.842292	-0.12122
OPN3	Opsin-3	ENSAPLG000000014871	0.977454	0.473539
OSBPL6	Oxysterol-binding protein-related protein 6	ENSAPLG000000011717	0.897008	0.92766
OSTF1	Osteoclast-stimulating factor 1	ENSAPLG000000014884	1.151684	0.839717
PACS2	Phosphofurin acidic cluster sorting protein 2	ENSAPLG000000015577	0.909023	0.337753
PARP12	Poly [ADP-ribose] polymerase 12	ENSAPLG000000006979	1.441757	0.35781
PAX5	Paired box protein Pax-5	ENSAPLG000000010841	2.459154	1.03426
PCSK2	Neuroendocrine convertase 1	ENSAPLG000000014969	1.207289	1.05459
PDE1C	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1C(Pde1c)	ENSAPLG000000008225	1.513352	1.02144
PDZD2	PDZ domain-containing protein 2	ENSAPLG000000012765	1.031388	-0.17407
PDZD8	PDZ domain-containing protein 8	ENSAPLG000000011185	1.242359	0.553777
PIGM	GPI mannosyltransferase 1	ENSAPLG000000014870	0.915037	1.06729
PIK3CB	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform	ENSAPLG000000003554	0.928103	0.502938
PIK3R1	Phosphatidylinositol 3-kinase regulatory subunit alpha(PIK3R1)	ENSAPLG000000004772	3.189838	0.477607
PLLP	Plasmalipin	ENSAPLG000000012794	1.423807	0.661077
PLPP1	Lipid phosphate phosphohydrolase 1	ENSAPLG000000010771	0.910714	0.661077
PLPPR1	Lipid phosphate phosphatase-related protein type 1	ENSAPLG000000006758	6.501825	-0.15928
PODXL	Podocalyxin-like protein 1	ENSAPLG000000003276	2.572196	0.343329
POGZ	Pogo transposable element with ZNF domain	ENSAPLG000000009926	1.971557	1.05862
POLR2C	DNA-directed RNA polymerase II subunit RPB3	ENSAPLG000000005385	0.891736	0.830357
POLR2D	DNA-directed RNA polymerase II subunit RPB4	ENSAPLG000000009812	0.802122	-0.20438
POMT1	Protein O-mannosyl-transferase 1(POMT1)	ENSAPLG000000014827	1.277645	0.994116
PPP1R17	G-substrate(human:Protein phosphatase 1 regulatory subunit 17 PPP1R17)	ENSAPLG000000009013	1.515938	1.02144
PRKAB1	5'-AMP-activated protein kinase subunit beta-1	ENSAPLG000000009490	1.561006	0.744369
PRRC2B	Uncharacterized protein KIAA0515(PRRC2B)	ENSAPLG000000014308	1.223569	0.994116
PRUNE2	Protein prune-like protein 2(PRUNE2)	ENSAPLG000000008078	3.081234	0.807237
PSKH1	Serine/threonine-protein kinase H1	ENSAPLG000000009622	1.010012	-0.96243
PSMB4	Proteasome subunit beta type-4	ENSAPLG000000009850	1.610869	1.05862
ROJER9	Putative polypeptide N-acetylglucosaminyltransferase 17	ENSAPLG000000003852	1.452865	0.860163
ROKC87	LysM and putative peptidoglycan-binding domain-containing protein 4(LYSMD4)	ENSAPLG00000001341	0.979691	0.511886
RABGAP1	Rab GTPase-activating protein 1	ENSAPLG000000006937	0.886993	0.300774
RABGAP1L	RAB GTPase-activating protein 1-like	ENSAPLG000000005959	0.789425	0.39963
RASGRP3	Ras guanyl-releasing protein 3	ENSAPLG000000012309	1.785497	0.267915
RC3H1	Roquin	ENSAPLG000000005341	0.897465	0.025934
RIOK1	Serine/threonine-protein kinase RIO1	ENSAPLG000000004196	1.182153	0.594772
RNF139	RING finger protein 139	ENSAPLG000000011464	1.534825	-0.29306
RSPRY1	RING finger and SPRY domain-containing protein 1	ENSAPLG000000012937	1.423807	1.06086
SAG	S-antigen visual arrestin	ENSAPLG000000012828	1.131999	0.485883
SAP130	Histone deacetylase complex subunit SAP130	ENSAPLG000000009195	2.048463	-0.14763
SAP30	Histone deacetylase complex subunit SAP30	ENSAPLG000000003274	0.930026	0.337753
SBN01	Protein strawberry notch-like protein 1	ENSAPLG000000015674	1.253036	1.04597
SEMA6A	Semaphorin-6A	ENSAPLG000000014502	1.145154	0.960773
SERINC5	Serine incorporator 5	ENSAPLG000000005798	0.939759	-0.73227
SESN3	Sestrin-3	ENSAPLG000000003440	1.378998	0.313691
SLC18A2	Synaptic vesicular amine transporter	ENSAPLG000000010707	0.968188	0.789509
SLC30A5	Zinc transporter 5(SLC30A5)	ENSAPLG000000005422	0.914603	0.790575
SLC30A9	Zinc transporter 9	ENSAPLG000000007998	1.045405	0.720469
SLC04C1	Solute carrier organic anion transporter family 4C1	ENSAPLG000000009323	0.827448	-1.83175
SMAD2	Mothers against decapentaplegic-like protein 2(SMAD2)	ENSAPLG000000008095	1.054894	0.360367
SMU1	WD40 repeat-containing protein SMU1	ENSAPLG000000015994	1.00129	-1.08195
SSBP2	Single-stranded DNA-binding protein 2	ENSAPLG000000005451	1.61046	-0.44535
SSR1	Translocon-associated protein subunit alpha	ENSAPLG000000004473	0.921062	0.594772
SUB1	Activated RNA polymerase II transcriptional coactivator p15	ENSAPLG000000015978	1.143366	-1.773
TARS	Threonyl-tRNA synthetase, cytoplasmic	ENSAPLG000000016069	1.175753	0.744369
TATDN1	Putative deoxyribonuclease TATDN1	ENSAPLG000000006883	1.526054	-0.29306
TBC1D31	WD repeat-containing protein 67/TBC1 domain family member 31	ENSAPLG000000010985	0.961318	0.88246
TBXAS1	Thromboxane-A synthase	ENSAPLG000000006656	1.236563	0.268392
THAP11	THAP domain-containing protein 11	ENSAPLG000000002084	0.842292	-0.12122

THBS1	Thrombospondin-1	ENSAPLG00000003908	0.928733	0.787054
THBS4	Thrombospondin-4	ENSAPLG00000006149	0.944433	-0.04061
TLE1	Transducin-like enhancer protein 1	ENSAPLG00000012402	0.822217	1.05859
TMC1	Transmembrane channel-like protein 1	ENSAPLG00000004487	1.288731	0.755648
TMEM161B	Transmembrane protein 161B	ENSAPLG00000010679	1.0541	0.376283
TMEM2	Transmembrane protein 2(TMEM2)	ENSAPLG00000014669	0.919547	0.371385
TMEM245	Transmembrane protein C9orf5(TMEM245)	ENSAPLG00000009827	1.520344	0.905477
TMEM33	Transmembrane protein 33	ENSAPLG00000007860	0.93721	0.720469
TMEM41A	TMEM41A	ENSAPLG00000005037	0.793805	0.773791
TMEM65	Transmembrane protein 65	ENSAPLG00000006782	2.067027	0.919496
TNN	Tenascin-N	ENSAPLG00000003018	0.920247	0.65618
TNNI2	Troponin I, fast skeletal muscle	ENSAPLG00000011264	1.031603	0.498567
TNNT3	Troponin T, fast skeletal muscle isoforms	ENSAPLG00000011980	1.941518	0.132705
TNR	Tenascin-R	ENSAPLG00000001323	1.041721	0.783862
TRIM3	Tripartite motif-containing protein 3	ENSAPLG00000009137	1.177121	0.411715
TRPM6	Transient receptor potential cation channel subfamily M member 6	ENSAPLG00000014165	2.035566	0.773225
TSC22D1	TSC22 domain family protein 1	ENSAPLG00000005147	1.411148	0.996987
TSNAXIP1	Translin-associated factor X-interacting protein 1	ENSAPLG00000008665	0.842292	-0.31438
TTN	Titin	ENSAPLG00000013370	1.719764	0.265324
TUBA8	Tubulin alpha-8 chain	ENSAPLG00000007746	1.07018	1.02994
TXLNB	Beta-taxilin	ENSAPLG00000003963	1.183457	0.648954
UGGT1	UDP-glucose:glycoprotein glucosyltransferase 1	ENSAPLG00000007044	2.139839	-0.58604
USP18	ubiquitin specific peptidase 18	ENSAPLG00000007508	1.07018	1.02994
WDR33	WD repeat-containing protein 33	ENSAPLG00000009868	1.077551	-1.14134
WDR36	WD repeat-containing protein 36(WDR36)	ENSAPLG00000012829	0.919547	-2.35375
WDR70	WD repeat-containing protein 70	ENSAPLG00000010164	1.489918	-1.3312
ZFR	Zinc finger RNA-binding protein	ENSAPLG00000015627	0.968718	-1.51923
ZHX1	Zinc fingers and homeoboxes protein 1	ENSAPLG00000010954	1.459071	0.977132
ZHX2	Zinc fingers and homeoboxes protein 2	ENSAPLG00000001368	0.880491	0
ZMAT3	Zinc finger matrin-type protein 3	ENSAPLG00000013292	1.174525	-2.03632
ZNF462	Zinc finger protein 462	ENSAPLG00000012931	0.872628	0.905077
ZNF516	Zinc finger protein 516	ENSAPLG00000015083	1.863955	0.745986

Table S4. Obtained clean data from raw data

	Raw reads	Clean reads	clean bases	Error rate(%)	Q20(%)	Q30(%)	GC content(%)
BD3_1	56654722	51168536	5.12G	0.05	95	85.83	51.88
BD3_2	54338258	50378540	5.04G	0.06	94.495	85.485	50.96
BD6_1	59421916	55284218	5.52G	0.05	94.485	85.37	51.345
BD6_2	49388830	46056976	4.6G	0.05	94.585	85.57	50.025
CD3_1	48743458	45645158	4.56G	0.05	95.025	86.67	48.455
CD3_2	56927652	53163828	5.32G	0.05	94.925	86.4	49.15
CD6_1	50149094	46515126	4.66G	0.05	94.615	85.765	50.37
CD6_2	53365442	49470316	4.94G	0.06	94.49	85.43	51.005

BD: Native Pekin ducks, CD: Cherry Valley Pekin ducks

Table S5. Statistics of Mapping of Groups

Sample name	BD3_1	BD3_2	BD6_1	BD6_2	CD3_1	CD3_2	CD6_1	CD6_2
Total reads	51168536	50378540	55284218	46056976	45645158	53163828	46515126	49470316
Total mapped	32862320 (64.22%)	32275711 (64.07%)	35400104 (64.03%)	30624644 (66.49%)	31925364 (69.94%)	37009182 (69.61%)	30811837 (66.24%)	31869481 (64.42%)
Multiple mapped	1312355 (2.56%)	922465 (1.83%)	1342930 (2.43%)	797113 (1.73%)	693967 (1.52%)	967580 (1.82%)	852141 (1.83%)	1111494 (2.25%)
Uniquely mapped	31549965 (61.66%)	31353246 (62.24%)	34057174 (61.6%)	29827531 (64.76%)	31231397 (68.42%)	36041602 (67.79%)	29959696 (64.41%)	30757987 (62.17%)
Read-1	15818736 (30.91%)	15710036 (31.18%)	17087607 (30.91%)	14945369 (32.45%)	15640492 (34.27%)	18047764 (33.95%)	15023565 (32.3%)	15418719 (31.17%)
Read-2	15731229 (30.74%)	15643210 (31.05%)	16969567 (30.7%)	14882162 (32.31%)	15590905 (34.16%)	17993838 (33.85%)	14936131 (32.11%)	15339268 (31.01%)
Reads map to '+'	15579976 (30.45%)	15578250 (30.92%)	16790321 (30.37%)	14744491 (32.01%)	15510714 (33.98%)	17870489 (33.61%)	14831660 (31.89%)	15175465 (30.68%)
Reads map to '-'	15969989 (31.21%)	15774996 (31.31%)	17266853 (31.23%)	15083040 (32.75%)	15720683 (34.44%)	18171113 (34.18%)	15128036 (32.52%)	15582522 (31.5%)
Non-splice reads	20285278 (39.64%)	22302413 (44.27%)	22210729 (40.18%)	20049916 (43.53%)	21495719 (47.09%)	24345701 (45.79%)	20001209 (43%)	20070618 (40.57%)
Splice reads	11264687 (22.01%)	9050833 (17.97%)	11846445 (21.43%)	9777615 (21.23%)	9735678 (21.33%)	11695901 (22%)	9958487 (21.41%)	10687369 (21.6%)

BD: Native Pekin ducks, CD: Cherry Valley Pekin ducks

Table S6 Function Analysis of DEGs in BD3VSBD6 and CD3VSCD6

BD3VSBD6	Term	Count	PValue
GO_CC	plasma membrane part	43	5.33E-07
GO_CC	plasma membrane	57	1.12E-05
GO_CC	integral to plasma membrane	25	1.22E-04
GO_CC	intrinsic to plasma membrane	25	1.72E-04
GO_CC	apical junction complex	6	0.001973
GO_CC	apicolateral plasma membrane	6	0.002249
GO_CC	occluding junction	5	0.0042
GO_CC	tight junction	5	0.0042
GO_CC	neuromuscular junction	3	0.016483
GO_CC	guanylate cyclase complex, soluble	2	0.017914
GO_CC	cell junction	11	0.018263
GO_CC	Golgi apparatus	15	0.024548
GO_CC	proteinaceous extracellular matrix	8	0.025433
GO_CC	cell-cell junction	6	0.028466
GO_CC	basement membrane	4	0.033158
GO_CC	extracellular matrix	8	0.036124
GO_CC	cell surface	8	0.037581
GO_MF	GTPase regulator activity	13	1.86E-04
GO_MF	nucleoside-triphosphatase regulator activity	13	2.29E-04
GO_MF	Ras guanyl-nucleotide exchange factor activity	6	9.69E-04
GO_MF	small GTPase regulator activity	9	0.002546
GO_MF	transmembrane receptor protein tyrosine kinase activity	5	0.002649
GO_MF	Rho guanyl-nucleotide exchange factor activity	5	0.003798
GO_MF	guanyl-nucleotide exchange factor activity	6	0.010141
GO_MF	GTPase activator activity	7	0.011956
GO_MF	growth factor binding	5	0.012881
GO_MF	enzyme activator activity	8	0.025871
GO_MF	mRNA 5'-UTR binding	2	0.034067
GO_MF	nucleotide binding	28	0.040857
GO_BP	cell adhesion	17	4.95E-04
GO_BP	biological adhesion	17	5.03E-04
GO_BP	muscle system process	8	7.75E-04
GO_BP	vasodilation	4	0.001562
GO_BP	regulation of cell motion	8	0.001733
GO_BP	regulation of Rho protein signal transduction	6	0.001929
GO_BP	membrane organization	11	0.002203
GO_BP	regulation of angiogenesis	5	0.002415
GO_BP	muscle contraction	7	0.002507
GO_BP	regulation of hydrolase activity	10	0.003255
GO_BP	regulation of muscle contraction	5	0.003922
GO_BP	regulation of cell migration	7	0.004098
GO_BP	epithelium development	8	0.004282
GO_BP	blood circulation	7	0.0065
GO_BP	circulatory system process	7	0.0065
GO_BP	nitric oxide mediated signal transduction	3	0.00673
GO_BP	regulation of locomotion	7	0.007552
GO_BP	intracellular signaling cascade	21	0.007777
GO_BP	angiogenesis	6	0.010562
GO_BP	regulation of G-protein coupled receptor protein signaling pathway	4	0.010639
GO_BP	regulation of Ras protein signal transduction	7	0.011446
GO_BP	muscle organ development	7	0.011697
GO_BP	regulation of blood vessel size	4	0.011815
GO_BP	regulation of tube size	4	0.011815
GO_BP	regulation of cell shape	4	0.01243
GO_BP	morphogenesis of an epithelium	5	0.01278
GO_BP	muscle cell development	4	0.013713
GO_BP	membrane invagination	7	0.014136
GO_BP	endocytosis	7	0.014136
GO_BP	vascular process in circulatory system	4	0.01507
GO_BP	tissue morphogenesis	6	0.02276
GO_BP	MAPKKK cascade	6	0.024738
GO_BP	regulation of small GTPase mediated signal transduction	7	0.025654
GO_BP	tube morphogenesis	5	0.027142
GO_BP	regulation of apoptosis	14	0.02749
GO_BP	skin development	3	0.027523
GO_BP	regulation of programmed cell death	14	0.029478
GO_BP	regulation of cell death	14	0.03025
GO_BP	vesicle-mediated transport	11	0.033648
GO_BP	regulation of cell adhesion	5	0.03449
GO_BP	negative regulation of Rho protein signal transduction	2	0.035304
GO_BP	muscle fiber development	3	0.038965
GO_BP	blood vessel morphogenesis	6	0.040977
GO_BP	respiratory gaseous exchange	3	0.041021
GO_BP	regulation of lipase activity	4	0.043023
GO_BP	cholesterol transport	3	0.043117
GO_BP	sterol transport	3	0.043117
GO_BP	regulation of smooth muscle contraction	3	0.045252
GO_BP	tube development	6	0.047549
GO_BP	negative regulation of signal transduction	6	0.048316
KEGG_PATHWAY	Glycine, serine and threonine metabolism	4	0.005296
KEGG_PATHWAY	ECM-receptor interaction	5	0.015837
KEGG_PATHWAY	Focal adhesion	7	0.02795
KEGG_PATHWAY	PPAR signaling pathway	4	0.045319
KEGG_PATHWAY	Endocytosis	6	0.061014
KEGG_PATHWAY	Vascular smooth muscle contraction	4	0.139978
KEGG_PATHWAY	Riboflavin metabolism	2	0.170562
KEGG_PATHWAY	Long-term depression	3	0.190466
KEGG_PATHWAY	Cell adhesion molecules (CAMs)	4	0.196784
KEGG_PATHWAY	Tight junction	4	0.202761

KEGG_PATHWAY	Selenoamino acid metabolism	2	0.262278
KEGG_PATHWAY	Hematopoietic cell lineage	3	0.263384
KEGG_PATHWAY	Gap junction	3	0.276375
KEGG_PATHWAY	Fructose and mannose metabolism	2	0.328406
KEGG_PATHWAY	Calcium signaling pathway	4	0.334897
KEGG_PATHWAY	Cytokine-cytokine receptor interaction	5	0.361882
KEGG_PATHWAY	ABC transporters	2	0.402919
KEGG_PATHWAY	mTOR signaling pathway	2	0.456623
KEGG_PATHWAY	Inositol phosphate metabolism	2	0.46929
KEGG_PATHWAY	Vibrio cholerae infection	2	0.481665
KEGG_PATHWAY	Purine metabolism	3	0.534643
KEGG_PATHWAY	Adipocytokine signaling pathway	2	0.544828
KEGG_PATHWAY	Long-term potentiation	2	0.550179
KEGG_PATHWAY	Viral myocarditis	2	0.565866
KEGG_PATHWAY	Hypertrophic cardiomyopathy (HCM)	2	0.632244
KEGG_PATHWAY	Dilated cardiomyopathy	2	0.661583
KEGG_PATHWAY	Melanogenesis	2	0.688618
KEGG_PATHWAY	Leukocyte transendothelial migration	2	0.751749
KEGG_PATHWAY	Neuroactive ligand-receptor interaction	3	0.805778
KEGG_PATHWAY	Pathways in cancer	3	0.902173
KEGG_PATHWAY	Regulation of actin cytoskeleton	2	0.922991
KEGG_PATHWAY	MAPK signaling pathway	2	0.95928
CD3VSCD6			
GO_CC	extracellular region part	28	2.96E-06
GO_CC	extracellular region	44	3.22E-06
GO_CC	extracellular matrix	14	8.45E-05
GO_CC	extracellular space	19	3.73E-04
GO_CC	proteinaceous extracellular matrix	11	0.002331
GO_CC	platelet alpha granule lumen	4	0.009539
GO_CC	cytoplasmic membrane-bounded vesicle lumen	4	0.011579
GO_CC	vesicle lumen	4	0.013068
GO_CC	basolateral plasma membrane	7	0.02206
GO_CC	platelet alpha granule	4	0.022093
GO_CC	adherens junction	6	0.02562
GO_CC	anchoring junction	6	0.037654
GO_MF	receptor tyrosine kinase binding	3	0.002884
GO_MF	actin binding	10	0.006993
GO_MF	carbohydrate binding	9	0.031516
GO_MF	cytoskeletal protein binding	11	0.0374
GO_MF	phosphatase activity	7	0.045644
GO_MF	vitamin binding	5	0.046639
GO_BP	regulation of programmed cell death	20	3.30E-04
GO_BP	regulation of cell death	20	3.46E-04
GO_BP	response to wounding	15	6.64E-04
GO_BP	regulation of apoptosis	19	8.05E-04
GO_BP	response to hormone stimulus	12	9.31E-04
GO_BP	skeletal system development	11	0.001137
GO_BP	tube development	9	0.001412
GO_BP	response to endogenous stimulus	12	0.002044
GO_BP	negative regulation of programmed cell death	11	0.002715
GO_BP	negative regulation of cell death	11	0.00277
GO_BP	organic acid biosynthetic process	7	0.004114
GO_BP	carboxylic acid biosynthetic process	7	0.004114
GO_BP	regeneration	5	0.004589
GO_BP	ossification	6	0.005347
GO_BP	regulation of inflammatory response	5	0.006464
GO_BP	muscle cell differentiation	6	0.006613
GO_BP	bone development	6	0.007078
GO_BP	negative regulation of apoptosis	10	0.007869
GO_BP	tube morphogenesis	6	0.008077
GO_BP	positive regulation of apoptosis	11	0.009441
GO_BP	positive regulation of programmed cell death	11	0.009884
GO_BP	positive regulation of cell death	11	0.010188
GO_BP	DNA replication initiation	3	0.010368
GO_BP	response to organic substance	15	0.010677
GO_BP	striated muscle cell differentiation	5	0.010746
GO_BP	wound healing	7	0.011064
GO_BP	negative regulation of hydrolase activity	4	0.011407
GO_BP	fatty acid metabolic process	7	0.013037
GO_BP	induction of apoptosis	9	0.013168
GO_BP	induction of programmed cell death	9	0.013397
GO_BP	lipid transport	6	0.013788
GO_BP	cellular component morphogenesis	10	0.01577
GO_BP	negative regulation of response to stimulus	5	0.016533
GO_BP	muscle organ development	7	0.017334
GO_BP	cardiac muscle tissue development	4	0.018116
GO_BP	lipid localization	6	0.018824
GO_BP	ureteric bud morphogenesis	3	0.019213
GO_BP	branching involved in ureteric bud morphogenesis	3	0.019213
GO_BP	regulation of response to external stimulus	6	0.019767
GO_BP	regulation of I-kappaB kinase/NF-kappaB cascade	5	0.020662
GO_BP	regulation of cell proliferation	15	0.021344
GO_BP	vitamin transport	3	0.022667
GO_BP	negative regulation of cell proliferation	9	0.02514
GO_BP	branching morphogenesis of a tube	4	0.025572
GO_BP	positive regulation of gene expression	12	0.026732
GO_BP	epithelial tube morphogenesis	4	0.027657
GO_BP	fatty acid transport	3	0.03027
GO_BP	tissue morphogenesis	6	0.031569
GO_BP	morphogenesis of a branching structure	4	0.035644
GO_BP	response to metal ion	5	0.037501
GO_BP	succinyl-CoA metabolic process	2	0.038467
GO_BP	tissue regeneration	3	0.038732

GO_BP	inflammatory response	8	0.04006
GO_BP	positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process	12	0.0416
GO_BP	response to hypoxia	5	0.042169
GO_BP	response to nutrient levels	6	0.043804
GO_BP	ureteric bud development	3	0.045596
GO_BP	negative regulation of defense response	3	0.047977
GO_BP	regulation of MAP kinase activity	5	0.049232
GO_BP	response to oxygen levels	5	0.049232
GO_BP	positive regulation of transcription	11	0.049244
KEGG_PATHWAY	Propanoate metabolism	4	0.006362
KEGG_PATHWAY	Steroid biosynthesis	3	0.017148
KEGG_PATHWAY	PPAR signaling pathway	4	0.049229
KEGG_PATHWAY	Glycine, serine and threonine metabolism	3	0.052694
KEGG_PATHWAY	Axon guidance	5	0.068125
KEGG_PATHWAY	DNA replication	3	0.068744
KEGG_PATHWAY	Pyruvate metabolism	3	0.082586
KEGG_PATHWAY	Cell cycle	4	0.188634
KEGG_PATHWAY	Biosynthesis of unsaturated fatty acids	2	0.233609
KEGG_PATHWAY	Selenoamino acid metabolism	2	0.269892
KEGG_PATHWAY	Pyrimidine metabolism	3	0.31619
KEGG_PATHWAY	Cysteine and methionine metabolism	2	0.337462
KEGG_PATHWAY	Fatty acid metabolism	2	0.384066
KEGG_PATHWAY	Cytokine-cytokine receptor interaction	5	0.385694
KEGG_PATHWAY	Starch and sucrose metabolism	2	0.398873
KEGG_PATHWAY	Lysine degradation	2	0.413329
KEGG_PATHWAY	Intestinal immune network for IgA production	2	0.447989
KEGG_PATHWAY	Arginine and proline metabolism	2	0.47426
KEGG_PATHWAY	Natural killer cell mediated cytotoxicity	3	0.477288
KEGG_PATHWAY	Insulin signaling pathway	3	0.485172
KEGG_PATHWAY	Glycolysis / Gluconeogenesis	2	0.517308
KEGG_PATHWAY	Adipocytokine signaling pathway	2	0.556883
KEGG_PATHWAY	Glycerophospholipid metabolism	2	0.56227
KEGG_PATHWAY	Complement and coagulation cascades	2	0.567592
KEGG_PATHWAY	Renal cell carcinoma	2	0.572851
KEGG_PATHWAY	Pancreatic cancer	2	0.58318
KEGG_PATHWAY	Chronic myeloid leukemia	2	0.598214
KEGG_PATHWAY	ECM-receptor interaction	2	0.64019
KEGG_PATHWAY	Hypertrophic cardiomyopathy (HCM)	2	0.644579
KEGG_PATHWAY	Hematopoietic cell lineage	2	0.648915
KEGG_PATHWAY	ErbB signaling pathway	2	0.653199
KEGG_PATHWAY	Chemokine signaling pathway	3	0.663151
KEGG_PATHWAY	Dilated cardiomyopathy	2	0.67386
KEGG_PATHWAY	Melanogenesis	2	0.700765
KEGG_PATHWAY	Focal adhesion	3	0.70195
KEGG_PATHWAY	Leukocyte transendothelial migration	2	0.763271
KEGG_PATHWAY	Pathways in cancer	4	0.763623
KEGG_PATHWAY	Cell adhesion molecules (CAMs)	2	0.800923
KEGG_PATHWAY	Tight junction	2	0.805797
KEGG_PATHWAY	MAPK signaling pathway	3	0.83852
KEGG_PATHWAY	Wnt signaling pathway	2	0.842755
KEGG_PATHWAY	Jak-STAT signaling pathway	2	0.85039
KEGG_PATHWAY	Huntington's disease	2	0.890491
KEGG_PATHWAY	Endocytosis	2	0.89584

Table S7. DEGs Statistic in BD3 VS BD6, CD3 VS CD6, BD3 VS CD3 and BD6 VS CD6

Differential expression genes between 3-week and 6-week old in Native Pekin ducks(BD3, BD6)						
Gene_id	readcount_BD6	readcount_BD3	log2FoldChange	pval	padj	
ENSAPLG00000000572	348.9938621	86.80689008	2.0073	0.00050259	0.047011	
ENSAPLG00000000583	3352.851018	768.2521792	2.1257	2.17E-05	0.0051937	
ENSAPLG00000000788	94.16466562	12.1282718	2.9568	0.00029066	0.031665	
ENSAPLG00000000798	336.9918506	52.86562114	2.6723	4.73E-06	0.00161	
ENSAPLG00000000900	774.4123574	159.7161319	2.2776	2.95E-05	0.0064878	
ENSAPLG00000000930	43.76659554	195.0645286	-2.156	0.00049354	0.0467	
ENSAPLG00000001030	330.7552119	80.98165306	2.0301	0.00042867	0.042697	
ENSAPLG00000001042	22.12033705	119.5568815	-2.4343	0.00049341	0.0467	
ENSAPLG00000001269	264.1263082	44.06668578	2.5835	1.79E-05	0.0043534	
ENSAPLG00000001671	132.4688532	25.33429875	2.3865	0.00025981	0.030103	
ENSAPLG00000001679	155.1326959	19.7228853	2.9756	1.44E-05	0.0037041	
ENSAPLG00000001980	148.2207005	19.21018479	2.9478	9.01E-05	0.014216	
ENSAPLG00000001983	636.1234279	166.5493185	1.9334	0.00038767	0.03907	
ENSAPLG00000002133	24.64430745	150.2408231	-2.608	6.59E-05	0.011454	
ENSAPLG00000002229	44.78417971	218.3153261	-2.2854	0.00011754	0.016991	
ENSAPLG00000002397	80.94660443	482.2266255	-2.5747	4.42E-06	0.001537	
ENSAPLG00000002412	536.1667551	135.4617918	1.9848	0.00042585	0.042665	
ENSAPLG00000002538	2185.983263	397.9768042	2.4575	1.23E-06	0.00067545	
ENSAPLG00000002574	456.2356395	42.81000981	3.4138	1.89E-06	0.00084307	
ENSAPLG00000002687	2359.027105	38694.97217	-4.0359	2.71E-14	1.54E-10	
ENSAPLG00000002862	2568.439558	685.6668493	1.9053	8.93E-05	0.014216	
ENSAPLG00000002906	1350.792242	7374.641374	-2.4488	8.26E-07	0.00050231	
ENSAPLG00000002989	22.12033705	146.0802543	-2.7233	4.35E-05	0.0085172	
ENSAPLG00000003010	165.0672794	34.04597721	2.2775	0.00044329	0.043642	
ENSAPLG00000003098	151.6956405	1977.450438	-3.7044	5.06E-12	1.72E-08	
ENSAPLG00000003217	77.98572293	415.1143285	-2.4122	1.38E-05	0.00362	
ENSAPLG00000003276	756.3132786	216.4564892	1.8049	0.00054177	0.047545	
ENSAPLG00000003502	423.9022934	88.89700193	2.2535	9.22E-05	0.014407	
ENSAPLG00000003585	2989.730918	560.7494842	2.4146	1.40E-06	0.00069765	
ENSAPLG00000003622	685.7521751	211.7896537	1.6951	0.00044251	0.043642	
ENSAPLG00000003824	230.2795726	1167.738616	-2.3423	7.12E-06	0.0022896	
ENSAPLG00000003972	20.58659903	244.9018938	-3.5724	4.12E-08	4.38E-05	
ENSAPLG00000004359	20.55433942	114.4952749	-2.4778	0.00037796	0.038318	
ENSAPLG00000004522	1825.835238	516.2988681	1.8223	0.00029374	0.031665	
ENSAPLG00000004523	868.0931288	187.3172598	2.2124	3.80E-05	0.0078069	
ENSAPLG00000004541	440.3842008	5543.018057	-3.6538	3.76E-12	1.60E-08	
ENSAPLG00000004555	714.7031695	129.3681736	2.4659	5.25E-06	0.0017204	
ENSAPLG00000004563	7130.645905	838.1636607	3.0887	3.06E-09	4.00E-06	
ENSAPLG00000004628	0	143.1567065		5.35E-15	4.56E-11	
ENSAPLG00000004634	685.9085653	107.1122814	2.6789	8.66E-07	0.00050875	
ENSAPLG00000004669	133.5285127	10.46360357	3.6737	1.38E-06	0.00069765	
ENSAPLG00000004686	168.0008091	29.12398158	2.5282	0.00010844	0.016061	
ENSAPLG00000004727	565.9487791	2181.298301	-1.9464	0.000125	0.017595	
ENSAPLG00000004830	14.6178529	146.6082026	-3.3262	3.17E-06	0.0012864	
ENSAPLG00000004908	444.624934	60.9576873	2.8667	1.42E-06	0.00069765	
ENSAPLG00000004909	4.117319807	73.47209292	-4.1574	8.78E-06	0.0026716	
ENSAPLG00000004913	575.7494163	108.3188068	2.4102	1.54E-05	0.0039229	
ENSAPLG00000005101	775.2980906	175.935167	2.1397	9.93E-05	0.015095	
ENSAPLG00000005130	74.28777812	3.381690578	4.4573	4.75E-05	0.0090915	
ENSAPLG00000005167	5.968746131	170.4938603	-4.8361	2.19E-10	4.15E-07	
ENSAPLG00000005280	552.4670158	83.56701405	2.7249	1.53E-06	0.00072453	
ENSAPLG00000005391	110.0532718	717.5288473	-2.7048	0.0005134	0.047098	
ENSAPLG00000005396	423.003932	107.2388481	1.9798	0.00048457	0.046676	
ENSAPLG00000005523	2354.699409	657.7648178	1.8399	0.00028304	0.031665	
ENSAPLG00000005535	746.3281821	141.1953649	2.4021	9.49E-06	0.0027407	
ENSAPLG00000005651	35.91416347	530.6261903	-3.8851	2.97E-05	0.0064878	
ENSAPLG00000005660	2929.203272	9503.101816	-1.6979	0.00052613	0.047098	
ENSAPLG00000005933	233.0216399	51.99728251	2.164	0.00021934	0.026318	
ENSAPLG00000005934	1328.103143	381.1251124	1.801	0.00037386	0.038199	
ENSAPLG00000005951	1175.939767	3793.068367	-1.6896	0.00052813	0.047098	
ENSAPLG00000006115	257.6140564	47.00548136	2.4543	3.99E-05	0.0080348	
ENSAPLG00000006127	341.5383611	87.51375927	1.9645	0.00052134	0.047098	
ENSAPLG00000006318	52.40588663	453.1136615	-3.1121	4.39E-08	4.40E-05	
ENSAPLG00000006380	2527.600867	495.8211665	2.3499	5.11E-06	0.0017055	
ENSAPLG00000006405	715.9732054	2488.248858	-1.7972	0.00029192	0.031665	
ENSAPLG00000006412	273.264217	57.94688269	2.2375	0.00013305	0.018276	
ENSAPLG00000006597	11486.3731	1863.80367	2.6236	1.28E-07	0.00010411	
ENSAPLG00000006664	391.1474769	1389.455464	-1.8287	0.00020003	0.025051	
ENSAPLG00000006689	1061.358181	165.5915195	2.6802	5.29E-07	0.00034668	
ENSAPLG00000006699	1010.004951	263.8198122	1.9367	0.00025675	0.029952	
ENSAPLG00000006824	172.5325961	18.50111208	3.2212	2.01E-06	0.00085698	
ENSAPLG00000007034	1638.142718	395.184407	2.0515	0.00016179	0.021302	
ENSAPLG00000007114	46.54373503	307.0988057	-2.722	3.70E-06	0.0014208	
ENSAPLG00000007141	63.46955671	1554.226415	-4.614	4.02E-16	6.84E-12	
ENSAPLG00000007153	4056.818682	1149.324761	1.8196	0.00016618	0.021605	
ENSAPLG00000007168	288.3287967	50.65334964	2.509	2.86E-05	0.0064878	
ENSAPLG00000007445	313.3251473	45.44772492	2.7854	3.30E-06	0.0013089	
ENSAPLG00000007476	213.8572766	20.32504623	3.3953	3.21E-07	0.00023734	
ENSAPLG00000007608	114.719005	483.3414869	-2.0749	0.00016025	0.021302	
ENSAPLG00000007778	92.43246207	496.5846201	-2.4256	1.35E-05	0.0035884	
ENSAPLG00000007797	18.54652286	102.4739149	-2.466	0.00052935	0.047098	
ENSAPLG00000007866	575.0186388	53.256162	3.4326	0.00017463	0.022363	
ENSAPLG00000007924	2630.068939	405.5932761	2.697	1.50E-07	0.00011579	
ENSAPLG00000008004	407.242269	100.1547316	2.0237	0.00045616	0.044652	
ENSAPLG00000008093	498.3015739	129.5819971	1.9432	0.0004878	0.046676	
ENSAPLG00000008117	2347.353976	668.2761917	1.8125	0.00016259	0.021302	
ENSAPLG00000008411	446.618027	119.5765364	1.9011	0.00050113	0.047011	
ENSAPLG00000008432	13623.49717	2973.603687	2.1958	4.16E-06	0.0015075	

ENSAPLG00000008462	585.115955	101.6033727	2.5258	0.00021394	0.026028
ENSAPLG00000008491	34125.46037	119393.7824	-1.8068	0.00014392	0.01961
ENSAPLG00000008567	224.6579619	2238.673518	-3.3168	1.27E-07	0.00010411
ENSAPLG00000008590	6696.583155	1349.95734	2.3105	3.95E-06	0.0014642
ENSAPLG00000008624	291.3689209	56.44368391	2.368	9.35E-05	0.014483
ENSAPLG00000008924	622.223007	139.0506954	2.1618	4.94E-05	0.0093433
ENSAPLG00000009003	5.010773354	149.9724418	-4.9035	8.50E-10	1.34E-06
ENSAPLG00000009157	494.7432005	108.6525865	2.187	5.75E-05	0.010198
ENSAPLG00000009268	379.9666793	76.96069529	2.3037	3.59E-05	0.007498
ENSAPLG00000009277	2310.920846	505.8942292	2.1916	9.71E-05	0.014901
ENSAPLG00000009614	1715.69153	457.6932401	1.9063	0.0003057	0.032542
ENSAPLG00000009777	952.2979544	182.1421308	2.3863	4.39E-06	0.001537
ENSAPLG00000009807	477.4842497	122.6069959	1.9614	0.00050807	0.047029
ENSAPLG00000009829	958.8859756	165.800936	2.5319	1.17E-05	0.0031674
ENSAPLG00000009911	27.16337001	168.1026679	-2.6296	5.40E-05	0.0097884
ENSAPLG00000010094	361.2090627	87.99376055	2.0374	0.0005299	0.047098
ENSAPLG00000010141	17.84171916	119.9845287	-2.7495	8.03E-05	0.013538
ENSAPLG00000010204	708.9770594	148.421296	2.256	4.43E-05	0.0085767
ENSAPLG00000010246	474.2652913	86.76978381	2.4504	1.03E-05	0.0028778
ENSAPLG00000010278	594.8394448	150.9607366	1.9783	7.95E-05	0.013538
ENSAPLG00000010424	111.9741252	420.4487234	-1.9088	0.00032878	0.034691
ENSAPLG00000010515	509.2312976	138.0950999	1.8827	0.00046565	0.045319
ENSAPLG00000010532	673.574142	176.4107612	1.9329	0.00034985	0.036556
ENSAPLG00000010847	8052.76683	2249.909566	1.8396	0.00012819	0.017886
ENSAPLG00000010852	8.649106772	343.5622407	-5.3119	8.77E-06	0.0026716
ENSAPLG00000010917	465.0502349	93.6946344	2.3113	5.17E-05	0.0094619
ENSAPLG00000010951	8389.939667	1761.795393	2.2516	1.74E-05	0.0043062
ENSAPLG00000010971	1029.860112	279.4998813	1.8815	0.00021231	0.026014
ENSAPLG00000011011	1040.681146	184.2322426	2.4979	1.63E-06	0.00074955
ENSAPLG00000011156	211.9364232	31.35590796	2.7568	8.36E-05	0.013688
ENSAPLG00000011160	394.6911268	99.88414683	1.9824	0.00012454	0.017595
ENSAPLG00000011184	1183.464638	88.63302774	3.739	0.00015995	0.021302
ENSAPLG00000011190	704.4775321	168.5303151	2.0635	0.00010778	0.016061
ENSAPLG00000011374	141.7533366	19.7228853	2.8454	4.01E-05	0.0080348
ENSAPLG00000011482	491.9134527	105.3778077	2.2228	5.50E-05	0.0098668
ENSAPLG00000011742	153.4523833	30.09702847	2.3501	0.00024913	0.029467
ENSAPLG00000011749	30.95809367	606.0489608	-4.291	8.66E-10	1.34E-06
ENSAPLG00000011759	102.5556955	15.66922829	2.7104	0.00048648	0.046676
ENSAPLG00000011871	120.9184763	17.20953335	2.8128	0.00017014	0.021954
ENSAPLG00000011914	490.9134046	120.6980084	2.0241	0.00053094	0.047098
ENSAPLG00000011941	80.33857958	7.241178914	3.4718	5.01E-05	0.0093433
ENSAPLG00000012198	1807.462641	20810.80648	-3.5253	9.93E-12	2.82E-08
ENSAPLG00000012212	114.9819898	12.60606955	3.1892	3.61E-05	0.007498
ENSAPLG00000012276	12.76642658	163.0366542	-3.6748	0.00012149	0.017388
ENSAPLG00000012291	155.8697592	33.14273583	2.2336	0.00054435	0.047545
ENSAPLG00000012345	437.7108433	77.23128003	2.5027	2.70E-05	0.0062949
ENSAPLG00000012368	116.7639891	18.20003162	2.6816	0.00015586	0.021068
ENSAPLG00000012754	1033.612043	3406.912321	-1.7208	0.00035682	0.036833
ENSAPLG00000012815	664.5701794	92.59722435	2.8434	4.81E-07	0.00032785
ENSAPLG00000012966	657.3363052	151.2836755	2.1194	5.05E-05	0.0093433
ENSAPLG00000013023	229.2591759	43.94452614	2.3832	0.00019868	0.025051
ENSAPLG00000013272	1101.570594	130.7819119	3.0743	1.08E-07	9.79E-05
ENSAPLG00000013290	34.31099839	188.3404573	-2.4566	8.25E-05	0.013688
ENSAPLG00000013386	2658.082913	244.655371	3.4416	2.47E-08	3.01E-05
ENSAPLG00000013559	2085.938966	619.8483346	1.7507	0.00035409	0.036773
ENSAPLG00000013669	538.2138344	114.6916471	2.2304	5.88E-05	0.010322
ENSAPLG00000013757	231.6695487	837.6575708	-1.8543	0.00026249	0.030207
ENSAPLG00000013917	3.22386626	46.5276836	-3.8512	0.00025517	0.029952
ENSAPLG00000013920	497.7258086	133.2102105	1.9016	0.00052453	0.047098
ENSAPLG00000013970	31.63554559	255.0666204	-3.0113	9.45E-07	0.00053657
ENSAPLG00000014093	3713.835641	1079.481058	1.7826	0.00032996	0.034691
ENSAPLG00000014181	13319.68855	2697.852506	2.3037	2.40E-06	0.00099498
ENSAPLG00000014219	1148.401192	280.5340964	2.0334	0.00011772	0.016991
ENSAPLG00000014282	245.2943566	43.30525894	2.5019	3.48E-05	0.0074078
ENSAPLG00000014530	141.6193903	14.18127737	3.32	1.05E-05	0.0028778
ENSAPLG00000014692	3117.89314	848.2890776	1.8779	0.00012917	0.017886
ENSAPLG00000014731	51.29643146	261.0838226	-2.3476	8.29E-05	0.013688
ENSAPLG00000015082	111.0140571	1678.164123	-3.9181	2.05E-11	4.99E-08
ENSAPLG00000015151	666.4166979	121.8760648	2.451	3.75E-06	0.0014208
ENSAPLG00000015253	733.7335866	195.5118307	1.908	0.00027926	0.031499
ENSAPLG00000015271	389.9784104	64.3219265	2.6	8.79E-06	0.0026716
ENSAPLG00000015363	226.8817801	994.3496769	-2.1318	3.39E-05	0.0073044
ENSAPLG00000015453	181.4299641	40.63043755	2.1588	0.00029322	0.031665
ENSAPLG00000015509	485.0168982	107.4679195	2.1741	8.99E-05	0.014216
ENSAPLG00000015757	2552.413476	631.5293044	2.0149	4.24E-05	0.0083932
ENSAPLG00000015867	309.0865095	1222.541694	-1.9838	8.64E-05	0.014008
ENSAPLG00000015868	2680.346408	556.8137566	2.2672	9.01E-06	0.0026716
ENSAPLG00000016039	1364.628805	149.6932198	3.1884	0.00021942	0.026318
ENSAPLG00000016064	880.2396196	254.0368124	1.7929	0.00030155	0.032302
ENSAPLG00000016184	104.6974583	14.28818915	2.8733	0.00023039	0.02744
ENSAPLG00000016190	11.10855795	78.5359031	-2.8217	0.00050511	0.047011
ENSAPLG00000016206	8.39593769	220.1567116	-4.7127	2.49E-11	5.30E-08
ENSAPLG00000016231	2071.740488	467.6504002	2.1473	9.10E-06	0.0026716
ENSAPLG00000016291	71.50082295	489.5769197	-2.7755	7.33E-07	0.00046254
ENSAPLG00000016389	1166.251292	324.8210396	1.8442	0.00027544	0.031275
Novel00003	101.5254831	362.2007603	-1.8349	0.0005337	0.047098
Novel00088	19.75766472	117.3969642	-2.5709	0.00029124	0.031665
Novel00113	39.57984867	208.7724153	-2.3991	7.19E-05	0.012365
Novel00165	2.744879871	48.3865205	-4.1398	0.00011039	0.016209
Novel00182	80.77549067	327.707481	-2.0204	0.00037454	0.038199
Novel00199	31.40972828	240.3551912	-2.9359	1.93E-06	0.00084307
Novel00301	20.58659903	122.0200829	-2.5673	0.00018793	0.023886
Novel00337	32.62087014	164.8453405	-2.3372	0.00026478	0.030267

Novel00382	548.6926408	111.8052056	2.295	2.93E-05	0.0064878
Novel00576	72.41672043	551.2328389	-2.9283	1.09E-07	9.79E-05
Novel00600	196.6705654	40.71989796	2.272	0.00020926	0.025827
Novel00770	149.4395627	16.65972656	3.1651	9.89E-06	0.0028062
Novel00948	230.2395926	29.01706979	2.9882	1.43E-06	0.00069765
Novel00956	1.372439936	46.42077182	-5.08	2.52E-05	0.0059573
Novel01042	4.56404658	140.9247802	-4.9485	3.74E-08	4.25E-05
Novel01233	16.85148677	133.0509446	-2.981	2.91E-05	0.0064878
Novel01340	80.76777026	645.9921841	-2.9997	1.74E-05	0.0043062
Novel01487	248.0315161	57.22035861	2.1159	0.00028586	0.031665
Novel01557	89.27802288	512.4283622	-2.521	0.00010203	0.015379
Novel01692	34.40777724	286.2632625	-3.0565	4.31E-07	0.00030551
Novel01916	0	80.22022622		1.21E-09	1.72E-06
Novel02174	127.0485205	19.05091887	2.7374	0.00020493	0.025478
Differential expression genes between 3-week and 6-week old in Cherry Valley Pekinducks(CD3, CD6)					
Gene_id	readcount_CD6	readcount_CD3	log2FoldChange	pval	padj
ENSAPLG00000000701	453.2759938	1141.908121	-1.333	0.00044095	0.037256
ENSAPLG00000000874	372.2332438	140.767856	1.4029	0.00058518	0.044238
ENSAPLG00000000926	103.1999724	457.9976287	-2.1499	3.21E-07	0.00014961
ENSAPLG00000000980	1434.154886	3773.536452	-1.3957	9.79E-05	0.013078
ENSAPLG00000001082	159.4721214	0.890746355	7.4841	6.30E-06	0.001596
ENSAPLG00000001519	48.2961495	0.843100526	5.8401	5.58E-08	3.71E-05
ENSAPLG00000001879	219.507137	43.36999494	2.3395	0.00026829	0.026347
ENSAPLG00000001929	164.94288	34.25538736	2.2676	8.15E-06	0.0019513
ENSAPLG00000002217	334.257341	122.2911131	1.4506	0.00055569	0.042768
ENSAPLG00000002226	3.244728287	51.11739788	-3.9776	0.00011882	0.015245
ENSAPLG00000002416	6042.808785	97.82667349	5.9488	9.20E-41	1.59E-36
ENSAPLG00000002436	295.343237	1415.976196	-2.2613	8.71E-05	0.011944
ENSAPLG00000002488	249.8239709	29.40392823	3.0868	3.93E-10	6.16E-07
ENSAPLG00000002602	38.40349938	154.6697161	-2.0099	6.99E-05	0.01044
ENSAPLG00000002669	8.074092109	84.63223857	-3.3898	1.65E-06	0.00059222
ENSAPLG00000002749	6.680619388	47.9666642	-2.844	0.000568	0.043511
ENSAPLG00000002858	976.0872826	403.8526843	1.2732	0.00066646	0.048583
ENSAPLG00000002895	16317.61616	4671.526271	1.8045	0.0001528	0.017688
ENSAPLG00000002897	165.0283993	30.26358948	2.4471	2.77E-06	0.0008998
ENSAPLG00000003004	4.127596414	181.6893166	-5.46	2.09E-16	1.74E-12
ENSAPLG00000003145	406.7430693	1028.114256	-1.3378	0.00055581	0.042768
ENSAPLG00000003202	211.6971536	62.30663534	1.7645	0.00014447	0.017173
ENSAPLG00000003331	14522.34563	46081.36116	-1.6659	3.02E-06	0.00096496
ENSAPLG00000003383	633.760872	1703.630667	-1.4266	0.0001532	0.017688
ENSAPLG00000003705	234.294546	858.3640222	-1.8733	1.11E-06	0.00041731
ENSAPLG00000003784	66.11448856	1086.820712	-4.039	1.49E-12	3.20E-09
ENSAPLG00000003961	18.32894366	123.5485017	-2.7529	3.48E-06	0.0010536
ENSAPLG00000004048	5415.997698	1476.537993	1.875	3.96E-07	0.00017054
ENSAPLG00000004054	211.0280838	48.01431003	2.1359	2.21E-05	0.0045262
ENSAPLG00000004098	308.0228326	50.54361161	2.6074	8.70E-09	9.83E-06
ENSAPLG00000004145	356.5428425	106.1955085	1.7474	3.68E-05	0.0066066
ENSAPLG00000004233	1186.413599	335.112979	1.8239	1.95E-06	0.00067389
ENSAPLG00000004284	40.08371633	144.6001556	-1.851	0.00041842	0.036255
ENSAPLG00000004359	54.82836573	418.8079786	-2.9333	3.73E-06	0.0010608
ENSAPLG00000004477	48.2961495	181.6561952	-1.9112	0.00012725	0.015689
ENSAPLG00000004506	137.2595659	0	Inf	0.00016162	0.018108
ENSAPLG00000004520	91.57177236	317.8895521	-1.7956	4.68E-05	0.007986
ENSAPLG00000004542	46.53041324	175.7948751	-1.9176	0.00012029	0.015245
ENSAPLG00000004581	5603.940403	704.3756019	2.992	1.08E-14	3.12E-11
ENSAPLG00000004635	1161.738579	380.6072859	1.6099	0.00012743	0.015689
ENSAPLG00000004718	468.3425962	1142.684709	-1.2868	0.00046595	0.038798
ENSAPLG00000004765	284.8343388	99.97480844	1.5105	0.00059605	0.044474
ENSAPLG00000004794	827.4736875	280.0235335	1.5632	3.95E-05	0.0070212
ENSAPLG00000004821	3345.460943	1169.080571	1.5168	0.00027266	0.026402
ENSAPLG00000004881	106.7213828	20.43225814	2.3849	4.09E-05	0.0071212
ENSAPLG00000004896	17.90385838	111.9118548	-2.644	6.83E-06	0.0016852
ENSAPLG00000004909	17.25491272	92.08446801	-2.416	7.87E-05	0.011116
ENSAPLG00000005167	20.36129994	104.6429464	-2.3616	4.83E-05	0.0080877
ENSAPLG00000005304	8.62745636	205.9849595	-4.5775	1.09E-14	3.12E-11
ENSAPLG00000005377	1234.322383	498.3566379	1.3085	0.00059596	0.044474
ENSAPLG00000005388	190.7372185	605.8603704	-1.6674	6.02E-05	0.0094363
ENSAPLG00000005402	65.41272115	2.155397144	4.9235	9.70E-09	9.83E-06
ENSAPLG00000005404	138.6882474	376.5451726	-1.441	0.00053398	0.042413
ENSAPLG00000005423	991.5789363	10343.43074	-3.3828	1.01E-09	1.28E-06
ENSAPLG00000005459	3643.996086	970.8165418	1.9083	3.72E-07	0.00016866
ENSAPLG00000005481	19602.10888	3785.619355	2.3724	4.32E-06	0.0011629
ENSAPLG00000005489	445.3578557	1416.000902	-1.6688	1.66E-05	0.0036393
ENSAPLG00000005505	151.156556	434.007611	-1.5217	0.00027098	0.026387
ENSAPLG00000005584	5973.859552	2121.79977	1.4934	4.78E-05	0.0080789
ENSAPLG00000005651	456.483002	5112.726096	-3.4855	6.92E-07	0.00027734
ENSAPLG00000005712	1761.427285	650.1272206	1.438	0.00010292	0.013438
ENSAPLG00000005719	841.1342269	213.985116	1.9748	0.00015655	0.017751
ENSAPLG00000005722	8068.668861	3447.963703	1.2266	0.00070302	0.049865
ENSAPLG00000005738	28.3825703	108.2866991	-1.9318	0.00038203	0.033768
ENSAPLG00000005762	590.4953113	1458.508046	-1.3045	0.00051004	0.041459
ENSAPLG00000005792	0	153.7115737		0.00032402	0.029549
ENSAPLG00000005881	1126.84894	384.6353948	1.5507	3.64E-05	0.0065952
ENSAPLG00000005950	7087.289477	2649.333442	1.4196	7.03E-05	0.01044
ENSAPLG00000006033	65.60388397	212.1725382	-1.6934	0.00042831	0.036474
ENSAPLG00000006048	56.17907879	251.3984992	-2.1619	4.50E-06	0.0011924
ENSAPLG00000006103	2403.858373	6469.752309	-1.4284	0.00010149	0.013353
ENSAPLG00000006199	78.30611499	242.0860461	-1.6283	0.00037779	0.033739
ENSAPLG00000006249	35.30717425	0.445373178	6.3088	3.11E-06	0.00097538
ENSAPLG00000006292	661.9422174	1711.781023	-1.3707	0.00020408	0.022123
ENSAPLG00000006311	13267.14396	36993.74112	-1.4794	8.80E-05	0.011944
ENSAPLG00000006362	163.5141985	549.4917497	-1.7487	0.00012536	0.015689

ENSAPLG00000006380	1325.655194	468.4515453	1.5007	0.00035925	0.032419
ENSAPLG00000006430	608.8267662	117.1444805	2.3777	9.35E-09	9.83E-06
ENSAPLG00000006677	1329.206807	511.5551454	1.3776	0.00023915	0.025134
ENSAPLG00000006683	14.60630834	126.7945271	-3.1178	7.21E-08	4.29E-05
ENSAPLG00000006702	68.93413157	14.66622975	2.2327	0.00057396	0.043773
ENSAPLG00000006717	15566.42385	5271.873294	1.562	2.29E-05	0.0045927
ENSAPLG00000006891	79.6140684	299.3910227	-1.9109	2.66E-05	0.0050916
ENSAPLG00000007063	112.1242351	336.7474616	-1.5866	0.00025368	0.025848
ENSAPLG00000007148	221.3131216	74.30992454	1.5745	0.00053644	0.042413
ENSAPLG00000007168	178.0500721	45.13492693	1.98	0.00050494	0.041443
ENSAPLG00000007183	788.0137531	310.6299423	1.343	0.0005829	0.044238
ENSAPLG00000007341	73.2428287	421.6065944	-2.5251	0.00068603	0.049269
ENSAPLG00000007359	785.2041892	2605.027091	-1.7302	6.84E-06	0.0016852
ENSAPLG00000007409	772.5899718	255.8304444	1.5945	5.72E-05	0.0091296
ENSAPLG00000007410	343.8506735	129.8644935	1.4048	0.00064587	0.047371
ENSAPLG00000007440	116.7196765	28.34642148	2.0418	0.00014977	0.017681
ENSAPLG00000007523	178.1330802	748.3559642	-2.0708	6.58E-05	0.010031
ENSAPLG00000007626	3969.288967	1422.50836	1.4804	4.58E-05	0.0078864
ENSAPLG00000007893	1972.777321	440.0127516	2.1646	1.47E-08	1.41E-05
ENSAPLG00000007931	88.23146266	390.9897339	-2.1478	8.49E-07	0.00032536
ENSAPLG00000008063	376.863894	993.7760652	-1.3989	0.00023352	0.024693
ENSAPLG00000008065	54.60450535	178.3956454	-1.708	0.00052829	0.042351
ENSAPLG00000008162	2095.370206	637.3999455	1.7169	4.58E-06	0.001195
ENSAPLG00000008175	31.40343821	117.2967165	-1.9012	0.00049002	0.040605
ENSAPLG00000008327	46.583235	0.421550263	6.788	2.57E-05	0.0049797
ENSAPLG00000008336	1864.597054	439.625476	2.0845	5.60E-08	3.71E-05
ENSAPLG00000008363	526.752745	171.2127302	1.6213	5.86E-05	0.0092651
ENSAPLG00000008381	9679.269042	3800.669401	1.3486	0.0002468	0.025472
ENSAPLG00000008389	30.03008969	192.8930785	-2.6833	8.80E-05	0.011944
ENSAPLG00000008403	3601.39705	11246.11346	-1.6428	4.29E-06	0.0011629
ENSAPLG00000008717	7226.784982	954.70207	2.9202	1.18E-07	6.36E-05
ENSAPLG00000008739	270.9272866	71.04733849	1.9311	1.16E-05	0.0026983
ENSAPLG00000008874	66.51944965	5.058603156	3.717	1.15E-06	0.00042231
ENSAPLG00000008992	73.57233257	222.4751019	-1.5964	0.00052367	0.042177
ENSAPLG00000009016	1544.910812	548.9499316	1.4928	8.45E-05	0.011751
ENSAPLG00000009426	17.66993591	78.11840131	-2.1444	0.00054446	0.042672
ENSAPLG00000009563	19.43567216	112.564372	-2.534	1.39E-05	0.0031518
ENSAPLG00000009580	3526.358333	1429.605282	1.3026	0.000458	0.038321
ENSAPLG00000009581	2796.41014	1048.818748	1.4148	0.00013775	0.016603
ENSAPLG00000009685	40.17929773	186.5314772	-2.2149	1.32E-05	0.0030443
ENSAPLG00000009847	28.01030677	124.9964736	-2.1579	5.08E-05	0.0084134
ENSAPLG00000009870	14233.82142	4392.786453	1.6961	4.22E-06	0.0011629
ENSAPLG00000010071	602.322225	1508.404367	-1.3244	0.00050844	0.041459
ENSAPLG00000010094	209.1541928	36.64901365	2.5127	2.51E-07	0.00012006
ENSAPLG00000010133	189.6430634	39.68789495	2.2565	3.40E-06	0.0010465
ENSAPLG00000010141	82.65757178	302.2869665	-1.8707	2.14E-05	0.00444
ENSAPLG00000010494	54.64726501	239.6903835	-2.133	0.00020999	0.022481
ENSAPLG00000010520	17.95668013	151.0590849	-3.0725	8.17E-08	4.69E-05
ENSAPLG00000010759	290.4308652	102.0587368	1.5088	0.00067003	0.048583
ENSAPLG00000010917	268.3667128	81.25053794	1.7238	0.00011984	0.015245
ENSAPLG00000010935	13.77626196	72.75010026	-2.4008	0.00028345	0.026992
ENSAPLG00000010999	1653.272215	8.414444544	7.6182	6.32E-07	0.00025925
ENSAPLG00000011037	126.1469929	476.6048209	-1.9177	2.40E-06	0.00079523
ENSAPLG00000011053	177.3457935	486.160729	-1.4549	0.00040316	0.035454
ENSAPLG00000011054	27.97760921	157.0819395	-2.4892	0.00019566	0.021345
ENSAPLG00000011178	18.46728472	90.96275471	-2.3003	0.00025049	0.025699
ENSAPLG00000011184	1660.093652	165.667217	3.3249	3.02E-16	1.74E-12
ENSAPLG00000011263	14.14852549	83.27955832	-2.5573	0.00015393	0.017688
ENSAPLG00000011292	300.6630813	64.38330155	2.2234	8.17E-07	0.00031985
ENSAPLG00000011300	306.0256851	61.92546871	2.305	3.95E-07	0.00017054
ENSAPLG00000011513	27.69086499	132.5346962	-2.2589	0.00025967	0.026021
ENSAPLG00000011553	15885.76035	3020.906004	2.3947	0.00025494	0.025848
ENSAPLG00000011574	97.33682606	412.4835714	-2.0833	1.84E-06	0.00064699
ENSAPLG00000011787	267.6221858	848.0376355	-1.6639	1.69E-05	0.0036393
ENSAPLG00000011847	7444.810735	1541.864029	2.2716	1.04E-09	1.28E-06
ENSAPLG00000011914	555.1453774	207.0134175	1.4231	0.00037304	0.033488
ENSAPLG00000012199	1316.192651	3123.98709	-1.247	0.000417	0.036255
ENSAPLG00000012207	187.1856218	546.3999967	-1.5455	0.00016182	0.018108
ENSAPLG00000012230	548.8093295	2223.150198	-2.0182	9.52E-06	0.0022473
ENSAPLG00000012347	3538.451884	1443.080366	1.294	0.00042069	0.036255
ENSAPLG00000012360	818.3482	297.0781636	1.4619	0.00013607	0.016516
ENSAPLG00000012449	148.6337193	691.6009511	-2.2182	1.83E-05	0.0038945
ENSAPLG00000012560	49.43557556	0.866923441	5.8335	3.30E-05	0.0061111
ENSAPLG00000012662	123.8907763	396.2938284	-1.6775	6.09E-05	0.0094609
ENSAPLG00000012741	334.8132336	1205.760056	-1.8485	8.01E-05	0.01122
ENSAPLG00000012804	77.73262655	13.89459796	2.484	0.00013202	0.016138
ENSAPLG00000012934	129.4646671	35.09848788	1.8831	0.00030345	0.028425
ENSAPLG00000012949	547.9944018	1421.552254	-1.3752	0.00050176	0.04138
ENSAPLG00000013017	1292.82058	533.6715683	1.2765	0.00053141	0.042404
ENSAPLG00000013058	69.16805404	265.3241823	-1.9396	0.00027655	0.026481
ENSAPLG00000013183	44.90301805	169.0573331	-1.9126	0.00012694	0.015689
ENSAPLG00000013513	414.4197341	27.59861261	3.9084	2.48E-05	0.0048542
ENSAPLG00000013523	195.6319775	554.71596	-1.5036	0.00022818	0.024277
ENSAPLG00000013867	336.8430616	100.532034	1.7444	5.38E-05	0.0086973
ENSAPLG00000013979	4067.123841	11767.42589	-1.5327	3.62E-05	0.0065952
ENSAPLG00000014002	48.24332775	169.0096873	-1.8087	0.00026415	0.026167
ENSAPLG00000014022	40.68990233	141.2846979	-1.7959	0.00069062	0.049392
ENSAPLG00000014065	189.4619627	61.24186639	1.6293	0.00041862	0.036255
ENSAPLG00000014123	1262.184287	291.2200332	2.1157	5.31E-08	3.71E-05
ENSAPLG00000014135	258.237629	72.25708125	1.8375	4.00E-05	0.0070338
ENSAPLG00000014191	941.5950531	2452.800683	-1.3813	0.00016284	0.018108
ENSAPLG00000014194	228.7936011	57.38370748	1.9953	2.25E-05	0.0045523
ENSAPLG00000014222	10.71263439	62.44231063	-2.5432	0.00026903	0.026347

ENSAPLG00000014281	2696.935297	896.0888695	1.5896	0.00032026	0.029525
ENSAPLG00000014297	904.4592587	257.3458124	1.8133	3.73E-06	0.0010608
ENSAPLG00000014378	469.2657128	1417.477923	-1.5948	2.38E-05	0.0047174
ENSAPLG00000014394	13.12731631	73.92672159	-2.4935	0.0001851	0.020321
ENSAPLG00000014473	123.7624973	340.6988758	-1.4609	0.00064401	0.047371
ENSAPLG00000014516	71.76383666	379.0951075	-2.4012	6.22E-08	3.83E-05
ENSAPLG00000014519	74.13575892	316.2841183	-2.093	3.75E-06	0.0010608
ENSAPLG00000014674	30.28664762	114.043429	-1.9128	0.00042958	0.036474
ENSAPLG00000014730	5575.849583	2231.355193	1.3213	0.00032033	0.029525
ENSAPLG00000014871	21.10582701	104.2068718	-2.3037	7.66E-05	0.010917
ENSAPLG00000014945	1341.312914	477.281161	1.4907	7.18E-05	0.01048
ENSAPLG00000015178	883.3182399	2484.685654	-1.4921	0.00020761	0.022365
ENSAPLG00000015201	12.98897524	231.5638503	-4.1561	7.69E-14	1.89E-10
ENSAPLG00000015224	2911.925029	404.7878869	2.8467	3.31E-08	2.48E-05
ENSAPLG00000015225	67.32686057	388.3506162	-2.5281	2.91E-08	2.39E-05
ENSAPLG00000015230	1614.428511	3983.94786	-1.3032	0.00045188	0.037993
ENSAPLG00000015275	3608.658794	1042.897294	1.7909	3.25E-05	0.0060863
ENSAPLG00000015286	186.3580867	55.44271656	1.749	0.00027594	0.026481
ENSAPLG00000015349	248.3651031	894.9281959	-1.8493	0.00037983	0.033746
ENSAPLG00000015389	674.6394259	268.0077562	1.3318	0.00054467	0.042672
ENSAPLG00000015492	242.036623	69.47502613	1.8007	8.97E-05	0.012081
ENSAPLG00000015498	63.23196171	10.4269042	2.6003	0.00015085	0.017688
ENSAPLG00000015646	52.37092416	169.9076958	-1.6979	0.00067085	0.048583
ENSAPLG00000015665	13.49957984	97.99343389	-2.8598	6.08E-06	0.0015649
ENSAPLG00000015677	107.4357236	366.3015895	-1.7696	5.40E-05	0.0086973
ENSAPLG00000015749	168.3460736	651.8747088	-1.9532	3.67E-06	0.0010608
ENSAPLG00000015868	1225.169221	319.7901594	1.9378	2.86E-05	0.0054143
ENSAPLG00000015891	332.3432016	1267.741586	-1.9315	0.0003411	0.030943
ENSAPLG00000015932	1404.248053	512.6283298	1.4538	0.00014224	0.017025
ENSAPLG00000016034	378.2649176	1530.247403	-2.0163	2.20E-07	0.00010854
ENSAPLG00000016039	391.1482493	106.4244392	1.8779	7.25E-06	0.0017601
ENSAPLG00000016231	1199.721999	397.0012536	1.5955	7.19E-05	0.01048
ENSAPLG00000016282	17.90385838	131.1291443	-2.8726	4.83E-07	0.00020312
ENSAPLG00000016328	235.7056317	708.6648797	-1.5881	7.24E-05	0.01048
Novel00036	56.2645981	9.55998076	2.5571	0.00042753	0.036474
Novel00055	23.47774926	0		0.00016784	0.018544
Novel00088	85.9853081	823.3091075	-3.2593	3.21E-08	2.48E-05
Novel00093	4.223177821	54.5208851	-3.6904	1.96E-05	0.0041105
Novel00149	690.2115934	150.4542135	2.1977	6.99E-05	0.01044
Novel00165	6.03167373	147.7840108	-4.6148	3.73E-11	6.43E-08
Novel00194	61.82842689	8.247684142	2.9062	6.44E-05	0.0099086
Novel00263	301.4730035	100.5631191	1.5839	0.00032353	0.029549
Novel00264	539.9026967	208.9616706	1.3695	0.00070105	0.049865
Novel00337	80.90440889	286.4897249	-1.8242	0.00010083	0.013353
Novel00340	344.5650143	920.1901266	-1.4172	0.00026381	0.026167
Novel00446	121.730141	30.0232401	2.0195	0.00031327	0.029186
Novel00554	75.65751061	15.11160292	2.3238	0.00025885	0.026021
Novel00571	346.3735102	127.8520338	1.4379	0.00059026	0.044427
Novel00631	204.7499142	33.0311202	2.632	1.18E-07	6.36E-05
Novel00701	773.4074448	136.36177	2.5038	9.40E-10	1.28E-06
Novel00793	1468.657195	227.1133081	2.693	4.38E-12	8.39E-09
Novel00890	2.553022974	33.34081809	-3.707	0.00061714	0.045849
Novel00913	44.21131274	175.1993022	-1.9865	7.34E-05	0.010544
Novel00948	139.7622784	41.61232515	1.7479	0.00055068	0.042755
Novel00959	24.63729952	0.445373178	5.7897	0.00024642	0.025472
Novel01018	595.636566	123.9555276	2.2646	5.88E-08	3.76E-05
Novel01095	1287.82016	409.0821205	1.6545	1.69E-05	0.0036393
Novel01269	50.46684684	236.2744082	-2.2271	2.26E-06	0.00076374
Novel01374	601.3311851	1434.212403	-1.254	0.00051234	0.041459
Novel01381	12.5211303	123.8654618	-3.3063	1.53E-05	0.0034154
Novel01387	726.0469852	289.8104086	1.325	0.00063272	0.046805
Novel01402	342.44965	108.2939613	1.6609	0.00010875	0.014093
Novel01417	5.287146666	171.3556677	-5.0184	9.43E-15	3.12E-11
Novel01448	375.4150883	67.62932688	2.4728	2.03E-08	1.75E-05
Novel01458	165.0686477	452.6531505	-1.4553	0.00055009	0.042755
Novel01459	230.7831977	72.51187112	1.6702	0.00068166	0.04916
Novel01463	38.80846047	218.9888111	-2.4964	1.29E-07	6.60E-05
Novel01543	887.8885005	224.313539	1.9849	0.00015632	0.017751
Novel01739	571.0747408	13.07532035	5.4488	1.69E-08	1.54E-05
Novel01796	88.72194307	262.0273216	-1.5624	0.0002951	0.027794
Novel01929	117.4767769	597.4418532	-2.3464	1.30E-07	6.60E-05
Novel02015	17990.64086	3164.256034	2.5073	5.13E-05	0.0084134
Novel02018	8.169673517	58.80785647	-2.8477	0.00029465	0.027794
Novel02155	154.2101214	38.82097151	1.99	0.00024439	0.025472

Differential expression genes between Native Pekin and Cherry Valley Pekin ducks in 3-week old(BD3, CD3).

Gene_id	readcount_BD3	readcount_CD3	log2FoldChange	pval	padj
ENSAPLG00000001996	44.41497221	246.4812096	-2.4724	0.00014019	0.047484
ENSAPLG00000002226	1.980737429	47.16407054	-4.5736	0.00011486	0.043133
ENSAPLG00000002581	4530.58408	1016.51727	2.1561	3.34E-05	0.019259
ENSAPLG00000002687	45148.94432	1805.542776	4.6442	2.16E-17	3.72E-13
ENSAPLG00000002688	24.12189414	157.6211985	-2.708	5.39E-05	0.025864
ENSAPLG00000003004	6.113861038	167.2912613	-4.7741	3.46E-09	9.96E-06
ENSAPLG00000003383	380.6811354	1569.408361	-2.0436	0.00010145	0.039978
ENSAPLG00000004243	114420.1747	24108.6091	2.2467	4.23E-06	0.004322
ENSAPLG00000004541	6469.243058	1311.342133	2.3026	4.51E-06	0.0043312
ENSAPLG00000004963	2853.277633	672.3137738	2.0854	4.37E-05	0.022199
ENSAPLG00000005008	72.4544775	697.8956072	-3.2679	8.17E-08	0.00017307
ENSAPLG00000005481	13423.00054	3481.78446	1.9468	7.78E-05	0.033615
ENSAPLG00000005651	618.7752154	4713.215245	-2.9292	1.84E-05	0.012479
ENSAPLG00000005689	313.8158252	49.00040381	2.6791	3.53E-06	0.0043003
ENSAPLG00000005735	73.27266363	5.196723089	3.8176	3.60E-05	0.019503
ENSAPLG00000006068	34.3591313	0		0.00010183	0.039978

ENSAPLG00000006683	11.34023585	116.7816807	-3.3643	1.20E-05	0.0097929
ENSAPLG00000008327	49.84711199	0.39223065	6.9897	7.14E-07	0.0010846
ENSAPLG00000008390	2484.108847	563.5204022	2.1402	1.76E-05	0.012479
ENSAPLG00000008655	22.66097671	302.8620343	-3.7404	1.47E-08	3.63E-05
ENSAPLG00000008717	4969.708319	880.5991325	2.4966	0.00012793	0.046039
ENSAPLG00000009922	38754.51677	5963.178823	2.7002	5.36E-07	0.00092656
ENSAPLG00000010806	16055.84201	4089.167382	1.9732	4.11E-05	0.021533
ENSAPLG00000011054	17.64036687	144.8132905	-3.0372	2.89E-05	0.017238
ENSAPLG00000011553	12742.49773	2777.13409	2.198	1.25E-05	0.0097929
ENSAPLG00000012106	185.7241772	956.3920442	-2.3644	0.00010469	0.040188
ENSAPLG00000012198	24284.12867	4338.32763	2.4848	7.53E-07	0.0010846
ENSAPLG00000012263	95.51236292	609.9313298	-2.6749	0.00013954	0.047484
ENSAPLG00000012398	346.6398652	22.72361445	3.9312	3.37E-10	1.46E-06
ENSAPLG00000012450	18344.49264	4882.058537	1.9098	8.69E-05	0.036595
ENSAPLG00000012741	195.3479255	1107.23028	-2.5028	1.02E-06	0.0013527
ENSAPLG00000012773	2.87797115	99.42713954	-5.1105	0.00012343	0.045364
ENSAPLG00000013360	8668.595592	2446.85165	1.8249	0.00014867	0.049387
ENSAPLG00000014123	1788.587936	266.9451685	2.7442	9.02E-08	0.00017307
ENSAPLG00000014322	278.5935764	54.1264976	2.3638	6.15E-05	0.027976
ENSAPLG00000014519	53.62231686	290.7137677	-2.4387	5.19E-05	0.025608
ENSAPLG00000015082	1957.781289	109.9331901	4.1545	2.52E-13	2.17E-09
ENSAPLG00000015201	25.00450663	212.7615892	-3.089	4.25E-06	0.004322
Novel00008	74.48882613	0.39223065	7.5692	2.03E-09	7.01E-06
Novel00088	136.9800639	755.1208659	-2.4627	3.73E-06	0.0043003
Novel00093	1.260026205	50.14178111	-5.3145	2.59E-05	0.01599
Novel00446	180.2969111	27.36797225	2.7198	1.88E-05	0.012479
Novel00881	23.40605666	371.6327732	-3.9889	1.68E-10	9.67E-07
Novel00913	24.10239916	161.3222925	-2.7427	9.32E-05	0.038313
Novel00980	0	47.94853184		6.13E-06	0.0055686
Novel01138	0	42.94725803		6.90E-06	0.0059579
Novel01417	22.30793172	157.2385193	-2.8173	6.07E-05	0.027976
Novel01703	856.1312245	210.1856607	2.0262	0.00013595	0.047484
Novel01739	103.6459513	11.98679994	3.1121	3.61E-05	0.019503
Novel01795	121.6539844	14.02124667	3.1171	1.78E-05	0.012479
Novel02015	12510.58301	2908.215312	2.1049	2.48E-05	0.015858
Novel02155	203.197769	35.75273496	2.5068	6.68E-05	0.029592

Differential expression genes between Native Pekin and Charry Valley Pekin ducks in 6-week old.(BD6, CD6)						
Gene_id	readcount_BD6	readcount_CD6	log2FoldChange	pval	padj	
ENSAPLG00000000583	3626.675847	917.2953488	1.9832	1.04E-07	4.76E-05	
ENSAPLG00000000788	101.8748292	14.23024742	2.8398	1.96E-06	0.00055581	
ENSAPLG00000000798	364.5203782	102.1678598	1.8351	1.19E-05	0.0024369	
ENSAPLG00000000930	47.32478604	218.2667222	-2.2054	5.74E-05	0.0087876	
ENSAPLG00000001031	7928.128026	2130.923571	1.8955	2.38E-05	0.004252	
ENSAPLG00000001082	1.0013397	137.0717517	-7.0969	2.07E-05	0.0037355	
ENSAPLG00000001519	0	41.46824632		2.01E-08	1.27E-05	
ENSAPLG00000001671	143.3158804	23.71830082	2.5951	1.01E-06	0.00032946	
ENSAPLG00000001855	1007.12617	164.1717822	2.617	0.00030128	0.029087	
ENSAPLG00000001869	264.5368324	75.77862974	1.8036	5.55E-05	0.0086595	
ENSAPLG00000001996	57.23339378	175.809248	-1.6191	0.00050771	0.042497	
ENSAPLG00000002188	110.2650637	20.19860273	2.4486	0.00010847	0.014746	
ENSAPLG00000002228	47.31817934	155.7547696	-1.7188	0.00042166	0.037512	
ENSAPLG00000002229	48.45042912	185.7784991	-1.939	5.64E-05	0.0087196	
ENSAPLG00000002245	303.7067774	101.8197903	1.5767	0.00022514	0.024273	
ENSAPLG00000002300	60.39444378	4.745859386	3.6697	0.00024848	0.025283	
ENSAPLG00000002357	266.5338231	1633.67073	-2.6157	2.14E-11	3.03E-08	
ENSAPLG00000002458	326.8552872	24.05903954	3.764	6.56E-09	4.84E-06	
ENSAPLG00000002538	2364.41855	735.1916682	1.6853	4.65E-06	0.0010805	
ENSAPLG00000002897	18.63272406	141.3205771	-2.9231	1.49E-07	6.49E-05	
ENSAPLG00000002906	1461.444923	4473.264364	-1.6139	1.14E-05	0.0023721	
ENSAPLG00000002961	7.264591354	93.43210073	-3.685	3.69E-08	2.02E-05	
ENSAPLG00000002963	1429.107199	329.2679904	2.1178	2.07E-07	8.59E-05	
ENSAPLG00000003098	164.2521323	1008.796644	-2.6187	0.0004637	0.039996	
ENSAPLG00000003132	77.65291801	11.69244642	2.7315	2.40E-05	0.004252	
ENSAPLG00000003211	4180.657783	1596.859481	1.3885	0.00032662	0.030932	
ENSAPLG00000003276	818.4734396	268.4548912	1.6083	0.00029054	0.028537	
ENSAPLG00000003321	83.30095349	561.8359176	-2.7537	0.00043886	0.038638	
ENSAPLG00000003585	3233.999955	1285.29233	1.3312	0.00026446	0.02659	
ENSAPLG00000003622	741.6330208	219.0483395	1.7595	1.37E-05	0.0027296	
ENSAPLG00000003627	3720.475116	280.3231347	3.7303	2.62E-19	4.45E-15	
ENSAPLG00000003983	1600.266367	332.1905146	2.2682	8.36E-05	0.012032	
ENSAPLG00000004059	2145.394195	820.1712776	1.3872	0.00022691	0.024273	
ENSAPLG00000004090	6811.762111	1029.477478	2.7261	3.35E-12	5.69E-09	
ENSAPLG00000004158	10.72018902	85.26668314	-2.9917	3.44E-06	0.00082427	
ENSAPLG00000004485	532.3665429	34.75126202	3.9373	0.00050671	0.042497	
ENSAPLG00000004523	939.0275457	290.4291793	1.693	1.74E-05	0.0032787	
ENSAPLG00000004555	773.3675181	274.0495194	1.4967	9.80E-05	0.01343	
ENSAPLG00000004562	1886.648604	613.4455467	1.6208	1.94E-05	0.0035419	
ENSAPLG00000004563	7716.834028	1848.003708	2.062	6.90E-06	0.0015148	
ENSAPLG00000004584	16.66277218	121.7741288	-2.8695	4.90E-07	0.00017726	
ENSAPLG00000004634	741.8227792	217.0063977	1.7733	6.95E-06	0.0015148	
ENSAPLG00000004669	144.4220094	23.27375684	2.6335	9.47E-07	0.00031549	
ENSAPLG00000004686	181.7267917	57.70260699	1.6551	0.00034599	0.032126	
ENSAPLG00000004689	60.66287063	208.7335095	-1.7828	0.00013424	0.01728	
ENSAPLG00000004787	316.4689801	105.80969	1.5806	0.00015091	0.018755	
ENSAPLG00000004808	2737.505402	1088.528519	1.3305	0.00024763	0.025283	
ENSAPLG00000004813	888.7056532	258.3525119	1.7824	6.14E-06	0.001392	
ENSAPLG00000004868	1117.804396	3017.180024	-1.4325	9.24E-05	0.012866	
ENSAPLG00000004959	545.7493445	176.7313243	1.6267	4.68E-05	0.0076415	
ENSAPLG00000005038	378.8006482	135.7967657	1.48	0.00034184	0.031915	
ENSAPLG00000005104	2025.915326	229.4694653	3.1422	0.00039629	0.035691	
ENSAPLG00000005150	0.968612181	29.34225204	-4.9209	5.30E-05	0.0085559	
ENSAPLG00000005402	0	56.13937234		1.27E-10	1.43E-07	

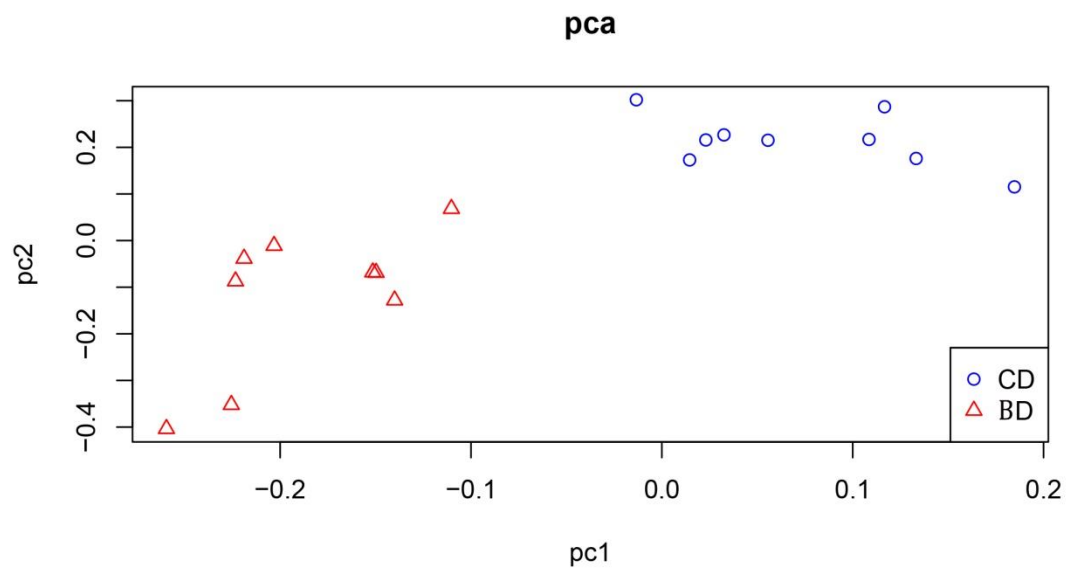
ENSAPLG00000005477	39.17655167	146.0297828	-1.8982	0.00013303	0.01728
ENSAPLG00000005501	128.2696641	409.7619817	-1.6756	4.55E-05	0.0075143
ENSAPLG00000005523	2547.244253	585.5260704	2.1211	3.22E-08	1.82E-05
ENSAPLG00000005631	12.95196106	69.50252404	-2.4239	0.00021458	0.023676
ENSAPLG00000005651	38.82976235	392.0608609	-3.3358	9.76E-05	0.01343
ENSAPLG00000005735	230.5372236	51.44482814	2.1639	2.61E-05	0.0045714
ENSAPLG00000005933	252.0757842	40.26774262	2.6462	2.04E-08	1.27E-05
ENSAPLG00000006093	910.7612474	349.028205	1.3837	0.00035609	0.032884
ENSAPLG00000006249	0	30.3278145		3.40E-06	0.00082427
ENSAPLG00000006292	201.9889791	567.0274959	-1.4891	0.00024012	0.025283
ENSAPLG00000006318	56.74248099	461.6428482	-3.0243	9.18E-05	0.012866
ENSAPLG00000006380	2733.756175	1134.802446	1.2684	0.00053048	0.044186
ENSAPLG00000006597	12426.21068	3085.805912	2.0097	5.12E-08	2.63E-05
ENSAPLG00000006689	1147.784515	329.351119	1.8012	2.36E-06	0.0006092
ENSAPLG00000006824	186.6353077	25.92635921	2.8477	2.10E-08	1.27E-05
ENSAPLG00000006875	58.88267717	200.9613207	-1.771	0.00011582	0.015619
ENSAPLG00000007042	0.517033609	219.9862522	-8.7329	4.37E-05	0.0072741
ENSAPLG00000007123	114.3490909	345.9383894	-1.5971	0.00015561	0.01916
ENSAPLG00000007153	4387.472757	1177.546712	1.8976	1.03E-06	0.0003318
ENSAPLG00000007160	9979.554295	3460.896236	1.5278	5.39E-05	0.0085559
ENSAPLG00000007270	1431.516128	573.084995	1.3207	0.00044717	0.039167
ENSAPLG00000007428	413.0359564	87.71900574	2.2353	1.07E-07	4.77E-05
ENSAPLG00000007476	231.4205606	30.67221859	2.9155	1.98E-09	1.77E-06
ENSAPLG00000007797	20.05952151	130.5025571	-2.7017	9.31E-07	0.00031549
ENSAPLG00000007896	3266.880527	845.5969374	1.9499	2.24E-07	8.86E-05
ENSAPLG00000007924	2845.609838	1103.029863	1.3673	0.00018117	0.021085
ENSAPLG00000008117	2538.299486	895.7324756	1.5027	0.00039699	0.035691
ENSAPLG00000008219	1185.022924	453.0035636	1.3873	0.00020754	0.023201
ENSAPLG00000008253	315.2973961	82.71055529	1.9306	5.35E-05	0.0085559
ENSAPLG00000008273	189.7831443	734.5003695	-1.9524	1.43E-06	0.00044096
ENSAPLG00000008403	239.3006741	3081.430114	-3.6867	1.51E-08	1.03E-05
ENSAPLG00000008411	483.0450722	150.7231521	1.6803	2.69E-05	0.0046614
ENSAPLG00000008432	14743.42495	2523.994477	2.5463	2.24E-07	8.86E-05
ENSAPLG00000008567	243.0309994	1930.751058	-2.9899	1.16E-13	3.81E-10
ENSAPLG00000008595	72.05712416	236.0459907	-1.7119	0.00013356	0.01728
ENSAPLG00000008874	0	57.02846029		1.10E-10	1.33E-07
ENSAPLG00000008884	2988.508703	1207.047891	1.3079	0.00043058	0.038106
ENSAPLG00000009157	535.3825515	206.4399727	1.3748	0.00050403	0.042497
ENSAPLG00000009268	410.9486138	116.8279897	1.8146	1.43E-05	0.0027778
ENSAPLG00000009305	148.9573092	37.72261088	1.9814	0.00033558	0.031503
ENSAPLG00000009460	1827.805261	360.9319273	2.3403	2.28E-09	1.94E-06
ENSAPLG00000009522	28.10296663	437.8475746	-3.9616	1.06E-16	6.00E-13
ENSAPLG00000009599	6536.124349	2494.385687	1.3898	0.00019706	0.022323
ENSAPLG00000009602	1360.434528	543.3910081	1.324	0.00049067	0.041897
ENSAPLG00000009749	421.8453479	138.2380922	1.6096	8.01E-05	0.011637
ENSAPLG00000009777	1029.927278	355.8636561	1.5331	7.71E-05	0.011297
ENSAPLG00000009831	41.63741634	139.5240743	-1.7446	0.0003928	0.035691
ENSAPLG00000009943	68.4378889	12.24812639	2.4822	0.00045315	0.039486
ENSAPLG00000009955	38.82315565	132.8290823	-1.7746	0.00057666	0.047602
ENSAPLG00000009972	178.4870733	31.30971159	2.5111	1.50E-06	0.00045606
ENSAPLG00000010071	124.5000047	516.6463779	-2.053	5.20E-07	0.00018409
ENSAPLG00000010148	94.21750763	352.3732809	-1.903	1.21E-05	0.0024533
ENSAPLG00000010246	512.9282323	32.98777476	3.9588	1.99E-17	1.69E-13
ENSAPLG00000010278	643.7103908	176.6128576	1.8658	3.30E-06	0.00081291
ENSAPLG00000010280	118.4592389	16.87918441	2.8111	3.17E-05	0.0054463
ENSAPLG00000010327	338.1057232	91.43898359	1.8866	1.41E-05	0.0027778
ENSAPLG00000010515	550.6716858	165.3759513	1.7354	1.68E-05	0.0032161
ENSAPLG00000010847	8709.491212	3486.775979	1.3207	0.00025599	0.025892
ENSAPLG00000010852	9.365453311	285.6858104	-4.9309	0.00021661	0.023746
ENSAPLG00000010949	314.6500643	814.2260894	-1.3717	0.00029351	0.028663
ENSAPLG00000010951	9075.501395	2474.995816	1.8746	3.56E-07	0.00013137
ENSAPLG00000010999	1.0013397	1421.007001	-10.471	1.28E-08	9.07E-06
ENSAPLG00000011010	5493.771685	2141.370214	1.3593	0.00017537	0.020694
ENSAPLG00000011011	1126.185576	307.4231651	1.8731	2.20E-06	0.00058354
ENSAPLG00000011108	83.17665012	247.8752307	-1.5754	0.00037886	0.034798
ENSAPLG00000011263	97.71904622	12.13332502	3.0097	2.54E-06	0.00064465
ENSAPLG00000011319	3112.831551	398.1220253	2.9669	1.57E-13	3.81E-10
ENSAPLG00000011374	153.3881258	43.91323818	1.8045	0.00017687	0.020726
ENSAPLG00000011440	2336.225844	6405.968079	-1.4552	5.55E-05	0.0086595
ENSAPLG00000011742	165.9410559	31.33170381	2.405	1.92E-06	0.00055361
ENSAPLG00000011749	33.52190948	259.74963	-2.9539	8.25E-10	7.79E-07
ENSAPLG00000011811	77.77722139	238.0537693	-1.6139	0.00031786	0.030515
ENSAPLG00000012106	94.74114794	282.4823684	-1.5761	0.00023742	0.025214
ENSAPLG00000012246	39.04564159	143.9365257	-1.8822	0.0001657	0.019968
ENSAPLG00000012276	13.82239068	110.9597742	-3.005	3.44E-07	0.00012972
ENSAPLG00000012339	109.0280246	2276.673189	-4.3842	0.00027163	0.026991
ENSAPLG00000012650	22.92602384	137.4491442	-2.5838	2.05E-06	0.00056724
ENSAPLG00000012760	165.5810532	43.91323818	1.9148	6.76E-05	0.010082
ENSAPLG00000012810	247.0627849	1263.14826	-2.3541	2.12E-06	0.00057198
ENSAPLG00000012879	1070.941954	326.1171791	1.7154	7.36E-06	0.0015796
ENSAPLG00000012893	6806.078719	830.8476637	3.0342	4.71E-06	0.0010805
ENSAPLG00000012949	163.3489752	469.9950589	-1.5247	0.00018688	0.021596
ENSAPLG00000012990	256.1532047	42.92401035	2.5772	2.55E-08	1.49E-05
ENSAPLG00000013104	473.7579813	1312.648655	-1.4703	8.80E-05	0.01256
ENSAPLG00000013272	1191.130369	347.6615848	1.7766	0.00024605	0.025283
ENSAPLG00000013340	87.08382636	19.53178677	2.1566	0.00017053	0.020263
ENSAPLG00000013386	2874.154535	521.1858016	2.4633	1.87E-05	0.0034866
ENSAPLG00000013416	569.6644126	205.180823	1.4732	0.00024714	0.025283
ENSAPLG00000013492	26422.14481	8490.779422	1.6378	6.70E-06	0.001498
ENSAPLG00000013801	1507.782194	376.5702889	2.0014	3.08E-07	0.00011904
ENSAPLG00000013917	3.488325189	57.15425777	-4.0343	1.93E-05	0.0035419
ENSAPLG00000013979	1329.491792	3489.969178	-1.3923	0.00024777	0.025283
ENSAPLG00000014001	334.794555	95.53635386	1.8092	0.00014897	0.01875

ENSAPLG00000014054	182.9440107	620.396974	-1.7618	0.00015122	0.018755
ENSAPLG00000014065	22.28468685	162.575592	-2.867	4.83E-08	2.57E-05
ENSAPLG00000014084	770.18726	205.2174767	1.9081	1.17E-06	0.00036788
ENSAPLG00000014120	27.90660152	104.4504004	-1.9041	0.00041981	0.037512
ENSAPLG00000014240	23622.7915	9231.864541	1.3555	0.00021874	0.023826
ENSAPLG00000014244	1633.591606	315.0072451	2.3746	4.97E-09	4.02E-06
ENSAPLG00000014302	19.57521542	119.3328023	-2.6079	6.05E-05	0.0090977
ENSAPLG00000014372	117.3792308	31.55031043	1.8955	0.00032088	0.030631
ENSAPLG00000014394	125.2983725	11.25156782	3.4772	5.77E-09	4.46E-06
ENSAPLG00000014474	185.4703304	28.4641602	2.704	7.35E-08	3.57E-05
ENSAPLG00000014523	18.27932805	88.80837345	-2.2805	0.00014347	0.018192
ENSAPLG00000014692	3373.662037	1339.714663	1.3324	0.00019511	0.02225
ENSAPLG00000014730	1935.600405	4776.474464	-1.3032	0.00049878	0.042376
ENSAPLG00000014885	2424.092989	838.8836184	1.5309	3.84E-05	0.0064664
ENSAPLG00000015119	10.11157955	62.88201424	-2.6366	0.00012248	0.016387
ENSAPLG00000015151	720.8664012	102.0420623	2.8206	1.85E-11	2.85E-08
ENSAPLG00000015157	537.9623367	1458.479473	-1.4389	0.00013055	0.017196
ENSAPLG00000015509	524.7998792	172.5826389	1.6045	0.00012837	0.017041
ENSAPLG00000015868	2900.597328	1048.553866	1.4679	0.00016405	0.019911
ENSAPLG00000015886	705.8529124	273.3277229	1.3687	0.0005771	0.047602
ENSAPLG00000015937	24.93530994	113.4120968	-2.1853	7.67E-05	0.011297
ENSAPLG00000016009	2262.3257	862.8521986	1.3906	0.0002426	0.025283
ENSAPLG00000016064	952.4698076	364.5799134	1.3854	0.00029663	0.028802
ENSAPLG00000016291	77.35837033	330.111919	-2.0933	2.37E-06	0.0006092
ENSAPLG00000016349	3629.478424	1122.148779	1.6935	7.44E-06	0.0015796
ENSAPLG00000016360	18931.18406	4753.985096	1.9936	5.88E-08	2.94E-05
ENSAPLG00000016379	263.7973129	716.4816771	-1.4415	0.0001881	0.021596
Novel00055	0	20.18027588		0.00045904	0.039796
Novel00081	126.8623808	368.997205	-1.5403	0.00026863	0.02685
Novel00129	5.42554955	64.8604699	-3.5795	1.68E-06	0.00049089
Novel00199	33.98009475	167.8844293	-2.3047	3.90E-06	0.00092108
Novel00250	0.517033609	30.77602385	-5.8954	8.79E-06	0.0018432
Novel00292	5.392822031	70.50274798	-3.7086	3.19E-06	0.00079748
Novel00382	593.7220742	157.7588829	1.9121	2.07E-06	0.00056724
Novel00414	399.1222958	135.4743539	1.5588	0.00015706	0.019199
Novel00522	3.97263128	386.0851748	-6.6027	1.60E-06	0.00047805
Novel00531	152.6552129	40.70129048	1.9071	0.00014333	0.018192
Novel00546	942.116534	108.6295838	3.1165	2.14E-13	4.56E-10
Novel00576	78.41195168	519.6202172	-2.7283	3.98E-10	3.98E-07
Novel00701	144.0355799	662.556519	-2.2016	1.02E-07	4.76E-05
Novel00820	1.551100828	26.81178178	-4.1115	0.00038246	0.03494
Novel00832	5010.634855	260.486088	4.2657	1.48E-13	3.81E-10
Novel00947	56.61817762	10.04373337	2.495	0.00022713	0.024273
Novel00950	24.5491864	0.440878604	5.7991	9.23E-05	0.012866
Novel01047	0.517033609	20.29507724	-5.2947	0.00046809	0.04017
Novel01101	43.61397491	0		0.0001703	0.020263
Novel01118	7.748897444	74.88587642	-3.2726	6.04E-05	0.0090977
Novel01233	18.24660053	83.82191522	-2.1997	0.00021025	0.02335
Novel01300	38.65951806	0		1.59E-07	6.74E-05
Novel01340	87.31952569	415.2528047	-2.2496	1.44E-05	0.0027778
Novel01387	231.0869847	621.9626992	-1.4284	0.00032767	0.030932
Novel01448	80.04802167	321.8720191	-2.0075	3.63E-05	0.0061756
Novel01487	268.2674637	54.82406727	2.2908	6.19E-07	0.00021458
Novel01502	553.7934016	45.00627126	3.6211	1.54E-15	6.56E-12
Novel01739	61.13396333	490.4391007	-3.004	0.0002007	0.022585
Novel01899	390.2804828	38.27462548	3.3501	8.11E-13	1.53E-09
Novel01928	173.3755856	50.089204	1.7913	0.00029	0.028537
Novel01929	1174.400306	100.511816	3.5465	3.99E-11	5.22E-08
Novel02110	175.3065092	15.99376183	3.4543	2.94E-10	3.12E-07

Table S8. Primers sequences used for the qRT-PCR validation

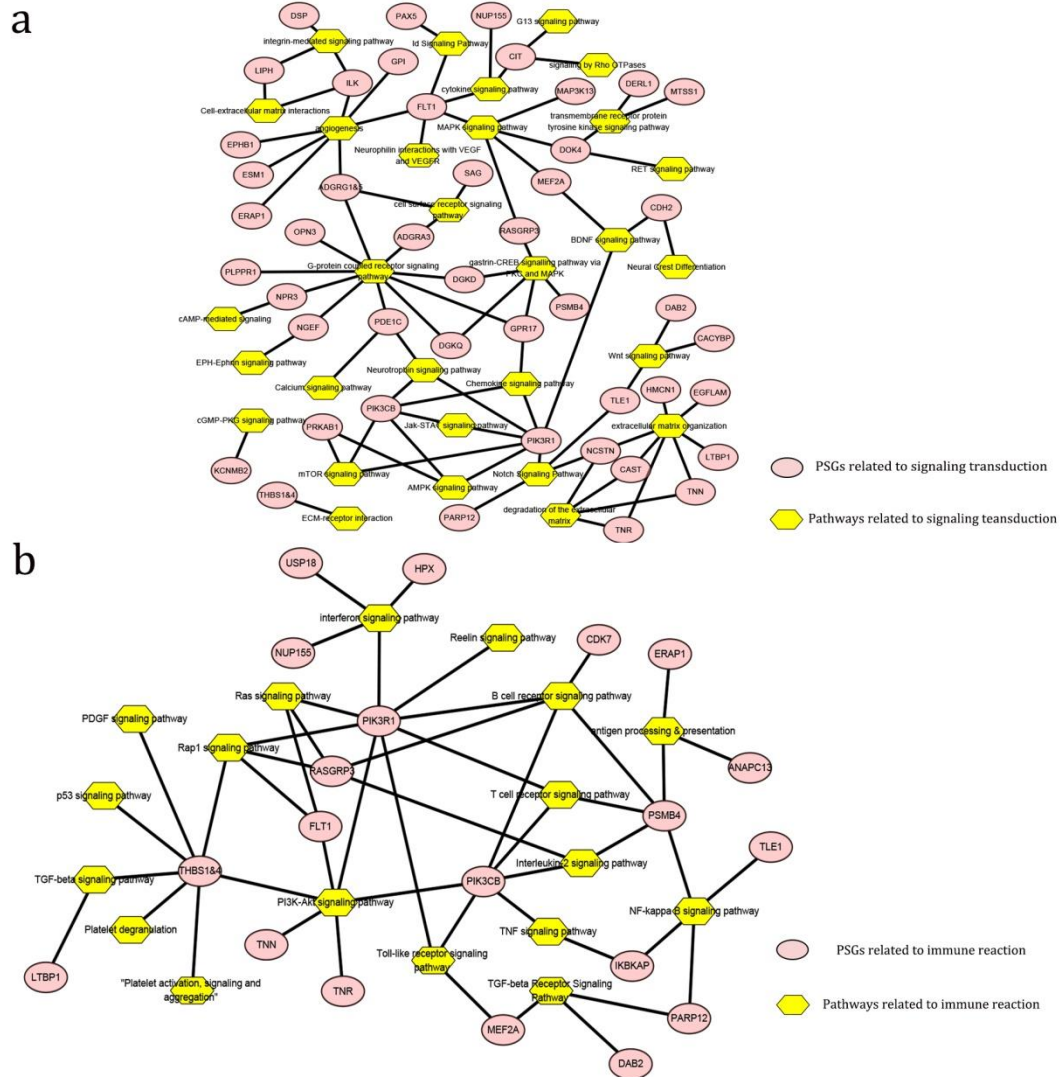
Gene	Primers sequence(5'-3')
ACSL1	F:GGGAGGAAGAGTAAGGCTGATG R:GGTGCTCCAACATGACCTGC
CAV3	F:ATCAAGGACCAACACACCAAGG R:GTCAAAGCTGTACGTTCCCACTG
MYOG	F:GCGGCTGAAGAAGGTGAACGA R:ATCTCTCTGCTCCCTCTCCTGCTG
TNNI1	F:CGTGGACAAGCAGTCAGAGAA R: ATCTCCCTGGTGTGTGGTTG
MSTN	F: GCACTGGTATTTGGCAGAGTATT R: TCACCTGGTCCTGGGAAAGT
IGFBP5	F: GTCGGAGATGACGGAGGAGA R: CGCCATGCCCACAAACTTG
FHL3	F: CGACCTATGAGCCTCTGACGA R: GAACCTCCTGAACACACCGC
CD36	F: AGCAGGTCTCCCTCCACACAG R: AGCACAGCACCGATGACAGC
GADPH	F:CACAGCCACACACGAAGACA R: CCTTAGCCAGCCCCAGTAGA

Figure S1. PCA analysis of two Populations



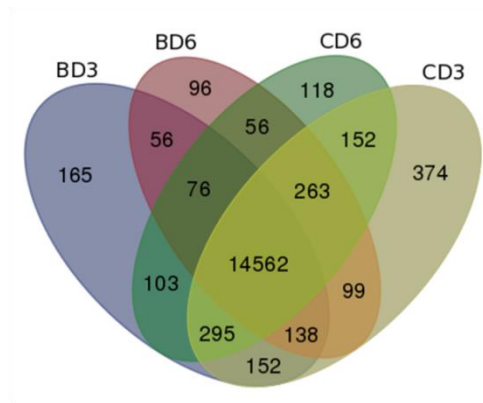
CD: Cherry Valley Pekin ducks; BD: Native Pekin ducks

Figure S2. Visualisation of Main PSGs and Pathways related to Signaling Transduction and Immune



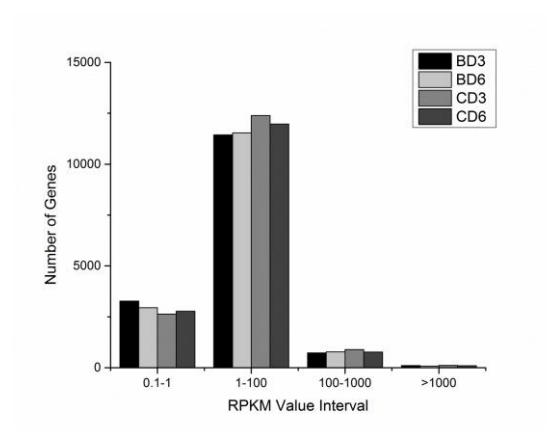
a, main PSGs and pathways related to signaling transduction; b, main PSGs and pathways related to immune system; items in ellipse were positively selected genes while items in rhombus were related pathways.

Figure S3. Overview of positively expressed genes in BD3, BD6, CD3 and CD6



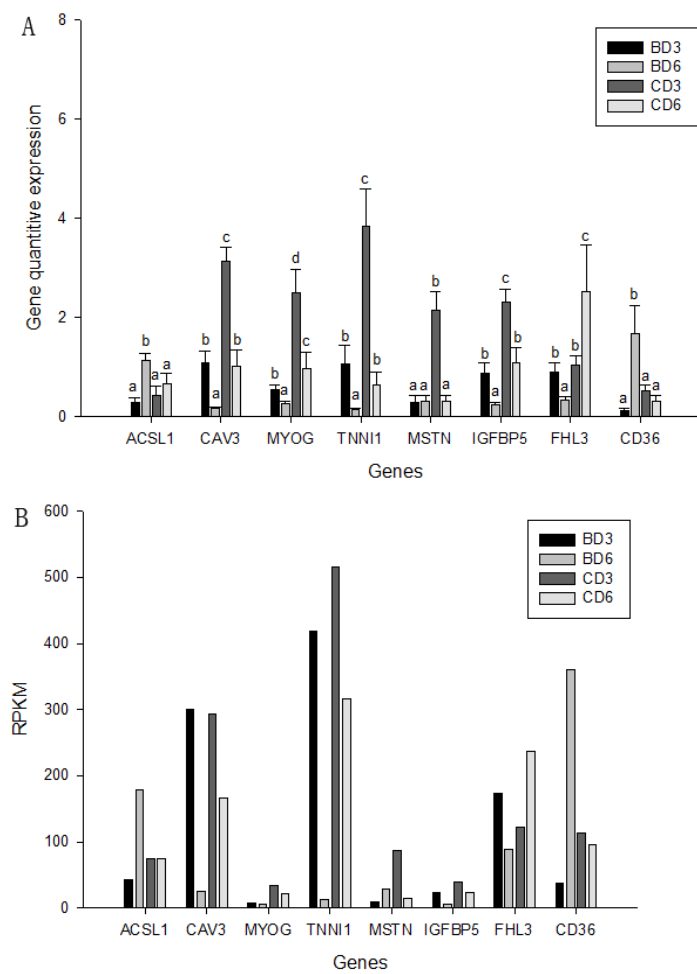
BD3: 3-week age of Native Pekin ducks; BD6: 6-week age of Native Pekin ducks; CD6: 6-week age of Cherry Valley Pekin ducks; CD3: 3-week age of Cherry Valley Pekin ducks

Figure S4. The number of genes detected with different level of RPKM value



BD3: 3-week age of Native Pekin ducks; BD6: 6-week age of Native Pekin ducks; CD6: 6-week age of Cherry Valley Pekin ducks; CD3: 3-week age of Cherry Valley Pekin ducks

Figure S5. QRT-PCR and sequencing results for eight DEGs



A: Genes quantitative expression of ACSL1, CAV3, MYOG, TNNI1, MSTN, IGFBP5, FHL3, and CD36 using qRT-PCR. Different letter within a gene means significant different expression with $p < 0.05$. B: RPKM values of the eight genes. BD3: 3-week age of Native Pekin ducks; BD6: 6-week age of Native Pekin ducks; CD6: 6-week age of Cherry Valley Pekin ducks; CD3: 3-week age of Cherry Valley Pekin ducks. Similar tendency was observed in qRT-PCR and RNA-seq.