

## Electronic Supplementary Material

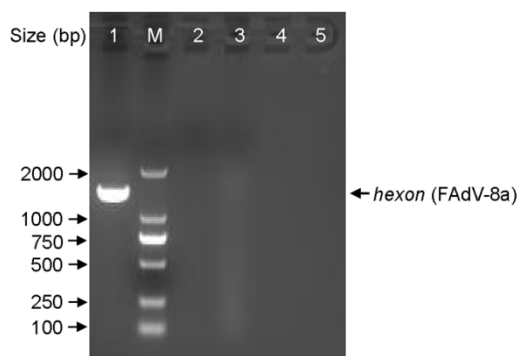
### Isolation and Characterization of A Novel Fowl Adenovirus Serotype 8a Strain from China

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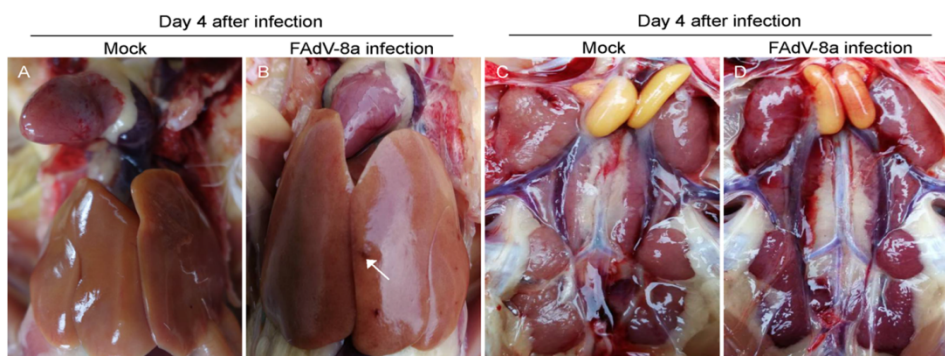
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Supporting information to DOI: 10.1007/s12250-019-019-00172-7



**Fig. S1.** PCR results using liver sample as templates. Agarose gel electrophoresis of PCR amplifications visualized by EtBr staining and UV light. Lane M: DL 2000 bp marker, Lane 1: Liver sample, Lane 2: MDV, Lane 3: AIV, Lane 4: NDV, Lane 5: IBDV. The solid arrows indicate the target gene.



**Fig. S2.** Gross pathology in chickens inoculated with FAdV-8a strain. (A, C) Macroscopic picture of a control chicken at 4 dpi. (B, D) Macroscopic picture (indicated by arrows) of a FAdV-8a-challenged chicken at 4 dpi.

**Table S1.** Summary of identified CH/GDLZ/201801 ORFs

Protein (ORF)	Start	End	Strand	Codons	Molecular mass(kDa)
ORF0	515	799	+	94	10.7
ORF1	836	1297	+	153	16.6
ORF1A	1324	1488	+	165	5.6
ORF1B	1491	1691	+	67	7.8
ORF1C	1603	1869	+	88	10.0
ORF2	1921	2727	+	268	31.7
Unknown protein 1	3671	3826	+	51	5.5
Unknown protein 2	3848	4111	+	87	8.8
Unknown protein 3	13052	13195	+	47	5.2
ORF14A	16443-16448	2900-3574	-	226	26
ORF14	16443-16448	3599-4276	-	227	26.5
ORF13	16443-16448	4313-5257	-	316	35.2
ORF12	16443-16448	5253-6182	-	309	35.7
Encapsidation protein IVa2	7344	6139	-	401	46.1
DNA polymerase	11246	7341	-	1301	149.8
Terminal protein precursor pTP	16443-16448	11243-13267	-	674	76.9
Encapsidation protein 52K	13348	14580	+	410	45.9
Capsid protein precursor pIIIa	14567	16333	+	588	65.0
Capsid protein III	16481	18139	+	552	59.8
Core protein precursor pVII	18177	18413	+	78	9.1
Core protein precursor pX	18646	19236	+	196	20.2
Capsid protein precursor pVI	19416	20102	+	228	24.3
Capsid protein II	20230	23076	+	948	106.9
Protease	23152	23736	+	194	22.9
Single-stranded DNA-binding Protein	25501-25668	23844-25358	-	560	61.8
Hexon assembly protein 100K	25726	28956	+	1076	119.3
Protein 22K	28604	29179	+	191	21.7
Protein 33K	29212-29526	29212-29526	+	236	26.5
Capsid protein precursor pVIII	29580	30308	+	242	26.3
U-exon protein	30562	30329	-	78	9.4
Fiber protein	30561	32129	+	522	55.1
ORF22	32195	32773	-	192	21.6
ORF20A	34337-34357	32777-33337	-	193	21.6
ORF20	34337-34357	33341-34255	-	311	35.3
ORF19	36846-36860	34559-36757	-	732	81.5
GAM-1	38341	39174	+	277	31.0
ORF17	39938	40408	-	156	18.4
ORF11	40769-41422, 41195-41377, 41483-41701		+	251	28.3
ORF23	42038	42976	+	312	34.3
ORF25	43407-43412	43496-44047	+	185	19.3