

Electronic Supplementary Material

Systematic Analysis of 42 *Autographa Californica* Multiple Nucleopolyhedrovirus Genes Identifies An Additional Six Genes Involved in the Production of Infectious Budded Virus

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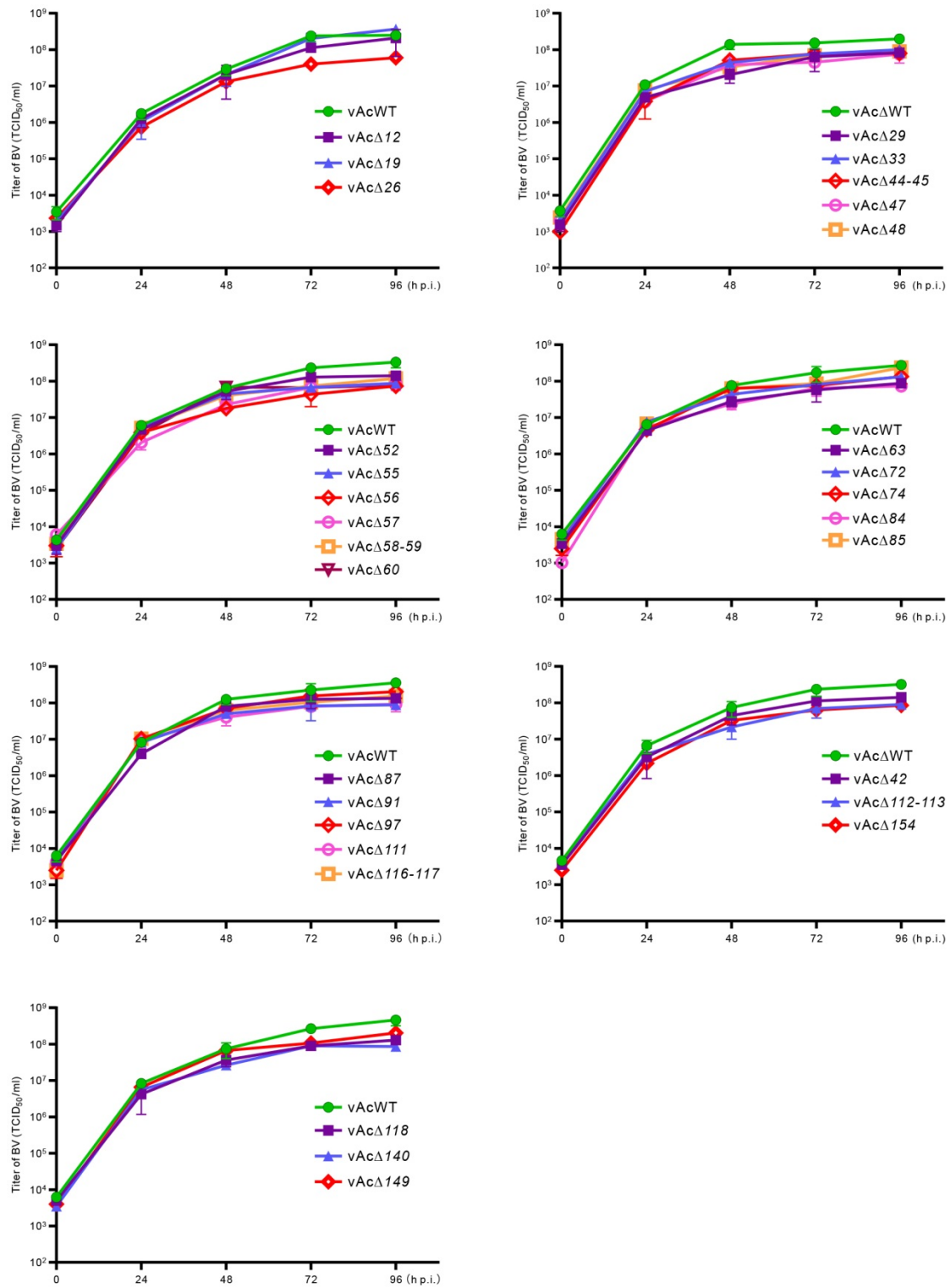


Fig. S1. One-step growth curves of the rest 30 knockout viruses. Sf9 Cells were infected at an MOI of 5. The supernatants from infected cells were collected at the indicated time points and BV titers were determined by an endpoint dilution assay done in triplicates. The results of these growth curves were statistically insignificant in comparison with that of vAcMNPV-egfp (Table 1).

Table S1. The proposed minimal genome of AcMNPV *

Retained regions	length (bp)	Start site	End site	Retaining <i>orfs</i>
1	807	353	1159	<i>ac1</i>
2	933	2,940	3,872	<i>ac6</i>
3	3,935	5,138	9,072	<i>ac9-ac11</i>
4	1,976	9,489	11,464	<i>ac13-ac14</i>
5	1,800	20,484	22,283	<i>ac24-ac25</i>
6	949	28,273	29,221	<i>ac34-ac35</i>
7	638	30,043	30,680	<i>ac37</i>
8	1,506	32,156	33,661	<i>ac40</i>
9	3,917	40,502	44,418	<i>ac50-ac51</i>
10	1,909	44,695	46,603	<i>ac53-ac54</i>
11	1,850	49,169	51,018	<i>ac62</i>
12	6,851	52,313	59,163	<i>ac65-ac67</i>
13	600	62,000	62,599	<i>ac73</i>
14	8,188	63,111	71,298	<i>ac75-ac83</i>
15	2,758	75,518	78,275	<i>hr3-ac90</i>
16	5,960	78,681	84,640	<i>ac92-ac95</i>
17	6,919	85,002	91,920	<i>ac98-ac104</i>
18	2,444	93,746	96,189	<i>ac106/107-ac109</i>
19	907	102,217	103,123	<i>ac120-ac122</i>
20	1,895	108,100	109,994	<i>ac128</i>
21	2,245	111,797	114,041	<i>ac132-ac133</i>
22	8,042	121,127	129,168	<i>ac139-ac147</i>
23	1,266	132,448	133,713	<i>ac153</i>
Total	68,295			

*: The sequence information is in accordance with that of AcMNPV E2 strain (GenBank accession no. KM667940).