

**Supplementary figure S4.** Multiple alignment of the putative hexon proteins of porcine adenovirus (PAdV) strains GES7 and Z11 with that of PAdV serotype 5 (PAdV-5) (species *Porcine mastadenovirus C*) reference strain HNF-70. Amino acid (aa) mismatches are highlighted with green. The virus serotype (isolate)/GenBank accession number are shown for PAdV-5 isolate HNF-70, whilst the virus name/host/country/year have been mentioned for strains GES7 and Z11. A '\*' denotes an identical aa residue. Numbers to the right indicate the positions of the aa for respective PAdV strains.

PAdV-5_(HNF-70)/AF289262	MATPSMMPQWSYMHIAQQDASEYLSPLGVQFAQATETYFKLGNKFRNPTVAPTHDVTTER	60
GES7/Pig/DOM/2020	MATPSMMPQWSYMHIAQQDASEYLSPLGVQFAQATETYFKLGNKFRNPTVAPTHDVTTER	60
Z11/Pig/DOM/2021	MATPSMMPQWSYMHIAQQDASEYLSPLGVQFAQATETYFKLGNKFRNPTVAPTHDVTTER	60
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PAdV-5_(HNF-70)/AF289262	SQRLQLRFVPVDREDTQYTYKTRFQLAVGDNRVLDMASTYFDIRGVIDRGPSFKPYSGTA	120
GES7/Pig/DOM/2020	SQRLQLRFVPVDREDTQYTYKTRFQLAVGDNRVLDMASTYFDIRGVIDRGPSFKPYSGTA	120
Z11/Pig/DOM/2021	SQRLQLRFVPVDREDTQYTYKTRFQLAVGDNRVLDMASTYFDIRGVIDRGPSFKPYSGTA	120
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PAdV-5_(HNF-70)/AF289262	YNPLAPKASVNNMTFENSNNPDQIRISMAQASFATPINDDTGAIEIPNQIIDLNYQPEPQL	180
GES7/Pig/DOM/2020	YNPLAPKASVNNMTFENSNNPDQIRISMAQASFATPINDDTGAIEIPNQIIDLNYQPEPQL	180
Z11/Pig/DOM/2021	YNPLAPKASVNNMTFENSNNPDQIRISMAQASFATPINDDTGAIEIPNQIIDLNYQPEPQL	180
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PAdV-5_(HNF-70)/AF289262	GEESWVSDVIDKPTQAAGRILSANNDPIPCYGSYARPTNQNGGQATAAVETINFKAGNAA	240
GES7/Pig/DOM/2020	GEESWVSDVIDKPTQAAGRILSANNDPIPCYGSYARPTNQNGGQATAAVETINFKAGNAA	240
Z11/Pig/DOM/2021	GEESWVSDVIDKPTQAAGRILSANNDPIPCYGSYARPTNQNGGQATAAVETINFKAGNAA	240
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PAdV-5_(HNF-70)/AF289262	GIPDTGFVMEDVNLTPDTHLVYKVSEEDAGKTPALGQQAAPNRANYIGFRDNFIGLMYY	300
GES7/Pig/DOM/2020	GIPDTGFVMEDVNLTPDTHLVYKVSEEDAGKTPALGQQAAPNRANYIGFRDNFIGLMYY	300
Z11/Pig/DOM/2021	GIPDTGFVMEDVNLTPDTHLVYKVSEEDAGKTPALGQQAAPNRANYIGFRDNFIGLMYY	300
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PAdV-5_(HNF-70)/AF289262	NSNGNLGVLAGQASQLNAVVDLQDRNTELSYQLMLDSLYDRSRYFSMWNQAIDSYDQDVR	360
GES7/Pig/DOM/2020	NSNGNLGVLAGQASQLNAVVDLQDRNTELSYQLMLDSLYDRSRYFSMWNQAIDSYDQDVR	360
Z11/Pig/DOM/2021	NSNGNLGVLAGQASQLNAVVDLQDRNTELSYQLMLDSLYDRSRYFSMWNQAIDSYDQDVR	360
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PAdV-5_(HNF-70)/AF289262	VIENNGVEDDMPNYCFPLSGINTGATSVQVSLNQNNWVATNGASVNNYINIGNLDCMEIN	420
GES7/Pig/DOM/2020	VIENNGVEDDMPNYCFPLSGINTGATSVQVSLNQNNWVATNGASVNNYINIGNLDCMEIN	420
Z11/Pig/DOM/2021	VIENNGVEDDMPNYCFPLSGINTGATSVQVSLNQNNWVATNGASVNNYINIGNLDCMEIN	420
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PAdV-5_(HNF-70)/AF289262	LAANLWRGFLYSNIALYLPDDLKFTPPNVVLPENTNTYAYMNGRLPAGGLVDITYVNIGAR	480
GES7/Pig/DOM/2020	LAANLWRGFLYSNIALYLPDDLKFTPPNVVLPENTNTYAYMNGRLPAGGLVDITYVNIGAR	480
Z11/Pig/DOM/2021	LAANLWRGFLYSNIALYLPDDLKFTPPNVVLPENTNTYAYMNGRLPAGGLVDITYVNIGAR	480
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PAdV-5_(HNF-70)/AF289262	WSLDVMDNVNPFNHHRNAGLRYSQLLGNGRYCQFHIQVPQKFFAIRNLLLPGTTYTEW	540
GES7/Pig/DOM/2020	WSLDVMDNVNPFNHHRNAGLRYSQLLGNGRYCQFHIQVPQKFFAIRNLLLPGTTYTEW	540
Z11/Pig/DOM/2021	WSLDVMDNVNPFNHHRNAGLRYSQLLGNGRYCQFHIQVPQKFFAIRNLLLPGTTYTEW	540
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PAdV-5_(HNF-70)/AF289262	SFRKDVNMVLQSTLGNLDRVGDASIRIDSVNLYASFFPMAHNTASTLEAMLRNDTNDQSF	600
GES7/Pig/DOM/2020	SFRKDVNMVLQSTLGNLDRVGDASIRIDSVNLYASFFPMAHNTASTLEAMLRNDTNDQSF	600
Z11/Pig/DOM/2021	SFRKDVNMVLQSTLGNLDRVGDASIRIDSVNLYASFFPMAHNTASTLEAMLRNDTNDQSF	600
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PAdV-5_(HNF-70)/AF289262	IDYLSSANMLYPI PAGASNLPISPSRNWAAFRGWSFTRLKQRETPALGSPDPYFTYSG	660
GES7/Pig/DOM/2020	IDYLSSANMLYPI PAGASNLPISPSRNWAAFRGWSFTRLKQRETPALGSPDPYFTYSG	660
Z11/Pig/DOM/2021	IDYLSSANMLYPI PAGASNLPISPSRNWAAFRGWSFTRLKQRETPALGSPDPYFTYSG	660
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PAdV-5_(HNF-70)/AF289262	TIPYLDGTFYLNHTFRRVSIQFDSSVQWPGNDRLLTPNEFIKRTVDGEGYTVAQSNMTK	720
GES7/Pig/DOM/2020	TIPYLDGTFYLNHTFRRVSIQFDSSVQWPGNDRLLTPNEFIKRTVDGEGYTVAQSNMTK	720
Z11/Pig/DOM/2021	TIPYLDGTFYLNHTFRRVSIQFDSSVQWPGNDRLLTPNEFIKRTVDGEGYTVAQSNMTK	720
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PA <sub>AdV</sub> -5_(HNF-70)/AF289262	DWFLVQMLANYNIGYQGYHLPDGYKDRNYSFLRNFQPMCRQVVDTANYAAYQNVMLTNQH	780
GES7/Pig/DOM/2020	DWFLVQMLANYNIGYQGYHLPDGYKDRNYSFLRNFQPMCRQVVDTANYAAYQNVMLTNQH	780
Z11/Pig/DOM/2021	DWFLVQMLANYNIGYQGYHLPDGYKDRNYSFLRNFQPMCRQVVDTANYAAYQNVMLTNQH	780
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PA <sub>AdV</sub> -5_(HNF-70)/AF289262	NNSGFSGFASAAALPREGHPYANWPYPLVGANAVPTITQRKFLCDRTMWRIPFSSNFMSM	840
GES7/Pig/DOM/2020	NNSGFSGFASAAALPREGHPYANWPYPLVGANAVPTITQRKFLCDRTMWRIPFSSNFMSM	840
Z11/Pig/DOM/2021	NNSGFSGFASAAALPREGHPYANWPYPLVGANAVPTITQRKFLCDRTMWRIPFSSNFMSM	840
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PA <sub>AdV</sub> -5_(HNF-70)/AF289262	GSLTDLGQNLLYANSAHALDMTFEVDAMEEPTLLYILFEVFDLVRVHQPHRGVIETVYLR	900
GES7/Pig/DOM/2020	GSLTDLGQNLLYANSAHALDMTFEVDAMEEPTLLYILFEVFDLVRVHQPHRGVIETVYLR	900
Z11/Pig/DOM/2021	GSLTDLGQNLLYANSAHALDMTFEVDAMEEPTLLYILFEVFDLVRVHQPHRGVIETVYLR	900
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PA <sub>AdV</sub> -5_(HNF-70)/AF289262	TPFSAGNATT	910
GES7/Pig/DOM/2020	TPFSAGNATT	910
Z11/Pig/DOM/2021	TPFSAGNATT	910
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