

Supplementary Materials: Preclinical Testing of an Oncolytic Parvovirus: Standard Protoparvovirus H-1PV Efficiently Induces Osteosarcoma Cell Lysis In Vitro

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Table S1. Human osteosarcoma cell lines used in this study.

Cell Culture	Age	Gender	Year	Morphology	Reference
CAL72	10	male	1989	fibroblastoid	[1]
H-OS	13	female	1971	mixed*	[2]
MG-63	14	male	1977	fibroblastoid	[3]
SaOS-2	11	female	1973	epithelial	[4]
U2-OS	15	female	1964	epithelial	[5]

* mixed, fibroblast and epithelial like morphology

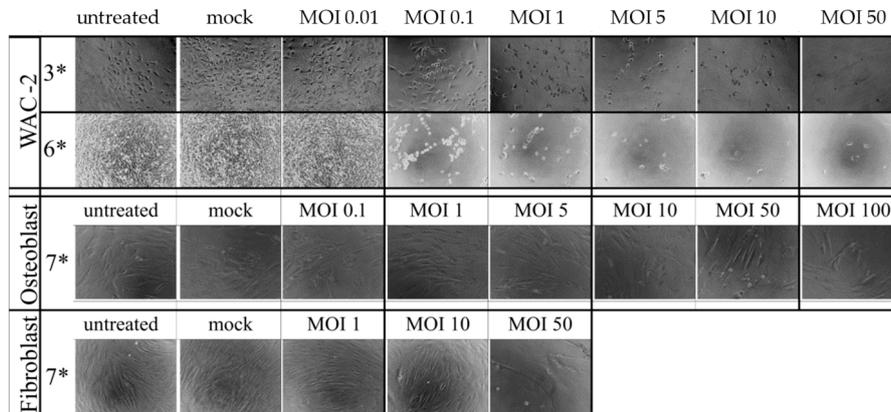
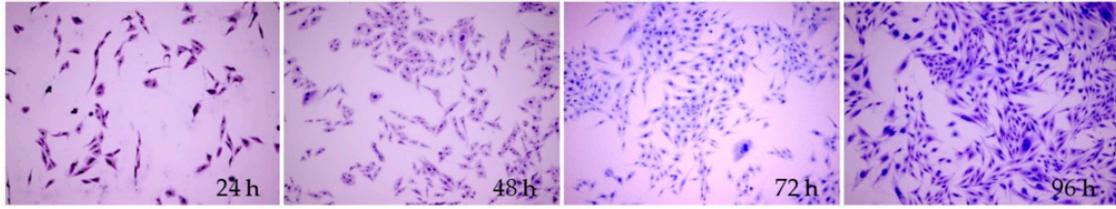
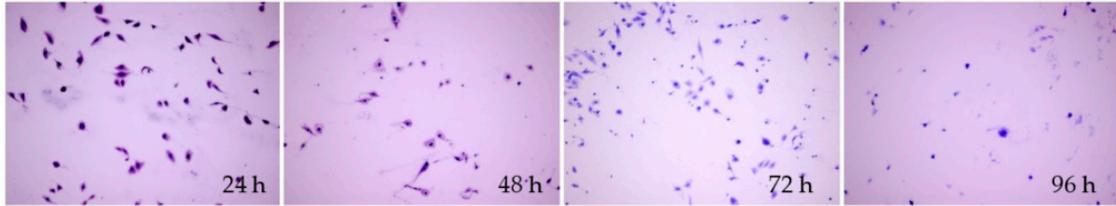


Figure S1. No visible cytopathic effects of wild type H-1PV in non-transformed mesenchymal cells. Phase contrast microscopy images for evaluating the effect of H-1PV dose on cell morphology. Images were recorded prior cell viability and cytotoxicity testing at day 7 in case of primary fibroblast and osteoblast cells and in WAC-2 cells at days 3 and 6 after H-1PV infection (400× magnification).

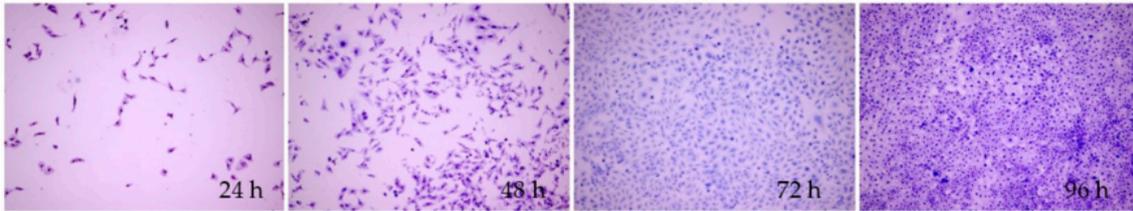
CAL-72 mock



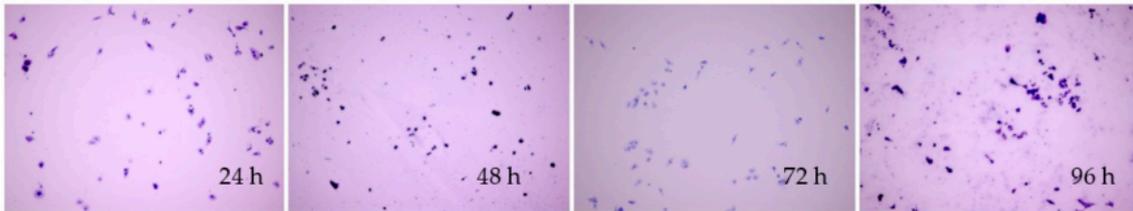
CAL-72 H-1PV



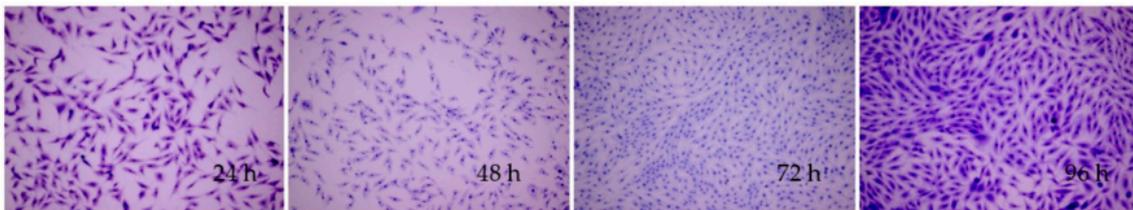
H-OS mock



H-OS H-1PV



MG-63 mock



MG-63 H-1PV

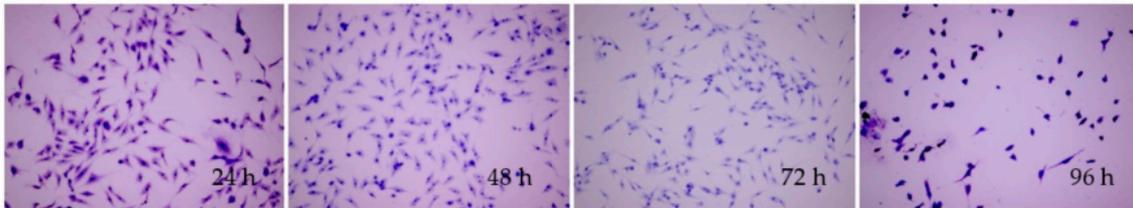
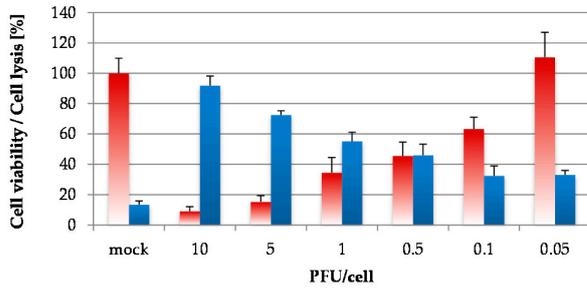
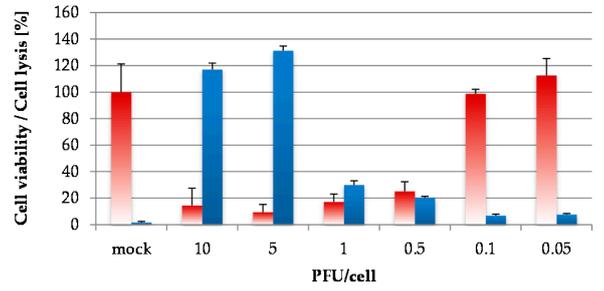


Figure S2. H-1PV infection induces antiproliferative and cytotoxic effects in osteosarcoma cell lines (continued from Figure 5).

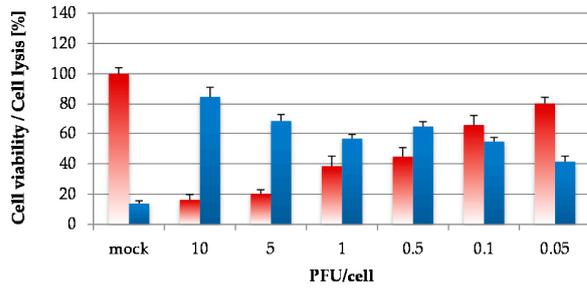
CAL-72 + wild type H-1PV



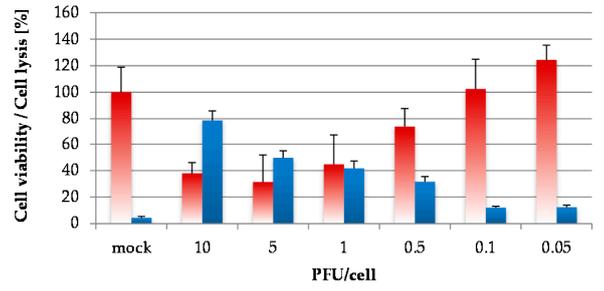
H-OS + wild type H-1PV



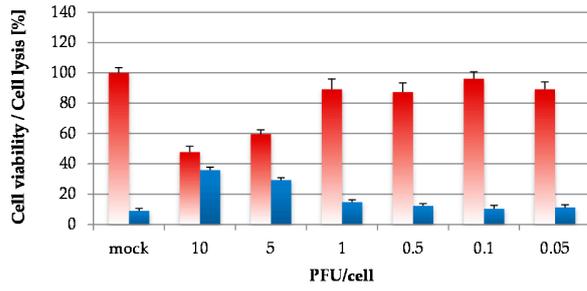
CAL-72 + DM H-1PV



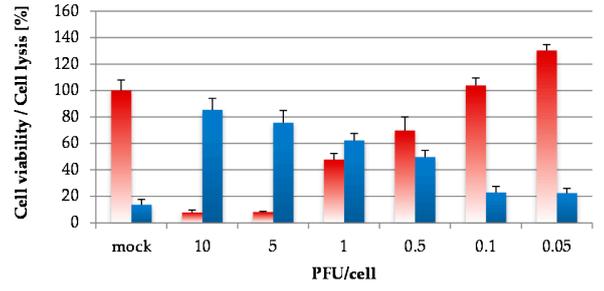
H-OS + DM H-1PV



CAL-72 + Del H-1PV



H-OS + Del H-1PV



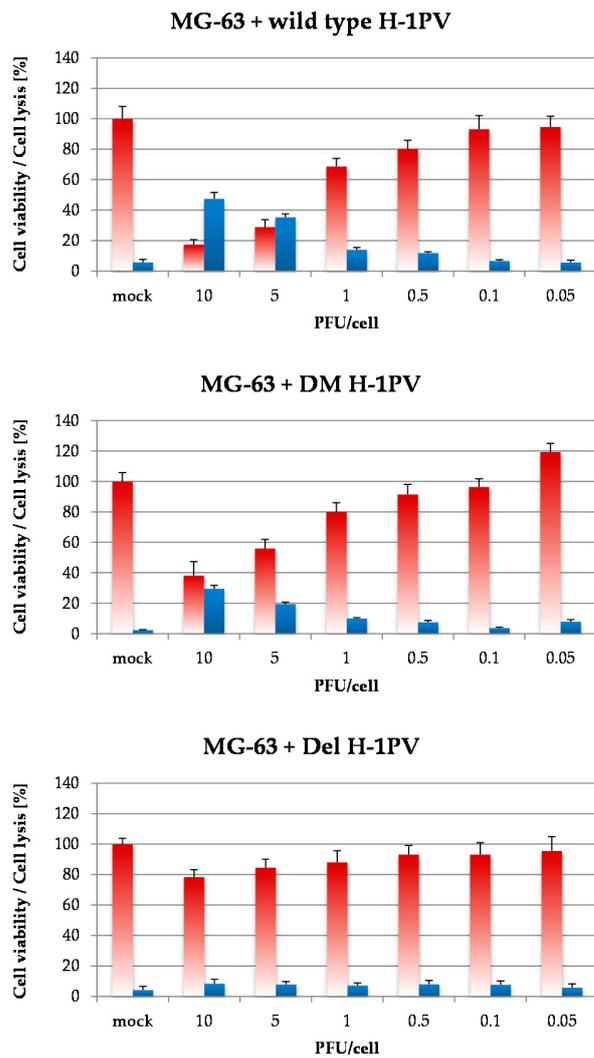


Figure S3. Comparative cytotoxicity testing on mutant H-1PV strains Del H-1PV and DM H-1PV, and standard wild type H-1PV (continued from Figure 7).

References

1. Rochet, N.; Dubousset, J.; Mazeau, C.; Zanghellini, E.; Farges, M.F.; de Novion, H.S.; Chompret, A.; Delpéch, B.; Cattani, N.; Frenay, M.; et al. Establishment, characterisation and partial cytokine expression profile of a new human osteosarcoma cell line (CAL 72). *Int. J. Cancer* **1999**, *82*, 2, 282–285.
2. McAllister, R.M.; Gardner, M.B.; Greene, A.E.; Bradt, C.; Nichols, W.W.; Landing, B.H. Cultivation in vitro of cells derived from a human osteosarcoma. *Cancer* **1971**, *27*, 2, 397–402.
3. Billiau, A.; Edy, V.G.; Heremans, H.; Van Damme, J.; Desmyter, J.; Georgiades, J.A.; De Somer, P. Human interferon: Mass production in a newly established cell line, MG-63. *Antimicrob. Agents Chemother.* **1977**, *12*, 11–15.

4. Fogh, J.; Wright, W.C.; Loveless, J.D. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. *J. Natl. Cancer Inst.* **1977**, *58*, 209–214.
5. Ponten, J.; Saksela, E. Two established in vitro cell lines from human mesenchymal tumours. *Int. J. Cancer* **1967**, *2*, 434–447.



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