**Fig. S1** Senescent IMR90 are resistant to myogenic conversion by ectopic expression of MYOD WT. Representative image of LP (PD 28) and HP (PD 55) IMR90 fibroblasts ectopically expressing MYOD and shifted to DM for 72 hours. Cells were immunostained with Myosin Heavy Chain (MyHC-red-) and MYOD (green); nuclei counterstained with DAPI (blue).