Cardiomyocyte marker expression in purified cells. (a) qPCR measuring gene expression of tissue specific markers, for the myocardium: \textit{cmlc2a}; endocardium: \textit{fli1a}; epicardium: \textit{wt1b} and \textit{tcf21}; cardiac fibroblasts and immature cardiomyocytes; \textit{vim}. 18S ribosomal RNA was used for normalization. For the crude cell suspension (red bars), RNA was isolated from the cell pellet after the first wash (step 10), while for the sample of purified cardiomyocytes (green bars) the cell pellet obtained after all 7 washes (step 13) was used. Transcripts of all genes were detected in the crude cell suspension (Ct values displayed on y-axis), while only the normalizer and the cardiomyocyte marker \textit{cmlc2a} were detectable in the purified sample. (b) Western blot showing \(\alpha\)-SA (alpha sarcomeric actin) protein expression in samples obtained from whole zebrafish hearts (lane 1) and from purified cardiomyocytes (lane 2). Protein extracts prepared from purified cardiomyocytes are devoid of unspecific bands.

Zebrafish qPCR primers used were: 18S ribosomal RNA: fwd, TCGCTAGTTGGCATCGTTTATG; rev, CGGAGGTTCGAAGACGATCA\textsuperscript{1}. \textit{Cmlc2a} (cardiac myosin light chain 2a also named myl7, myosin light polypeptide 7): fwd, GGCTCTTCCAATGTCTTCTCC; rev, GGACTCCAGCTCTTCATCAC. \textit{Fli1a} (friend leukaemia integration 1a): fwd, CACCGAGGTCCTTCTCTCAC; rev, CTCTCCGTTGGCTCTCC. \textit{Wt1b} (wilms tumor 1b): fwd, CCACACAGAAATGCCAAATG; rev, GACCCAGCACATCTTGTC. \textit{Tcf21} (transcription factor 21): fwd, GTCCAGAGGAACGCTGCTAAC; rev, GTCAGGTGACGGGTATGATG. \textit{Vim} (vimentin): fwd, GGAAAAAGCACAAGTGGAGGT; rev, GATCTGCATCTCAGCAAGTTC.