

Description of Additional Supplementary Files:

Supplementary Data 1: Pairwise comparison of cd74a, cd74b and mhc2a mRNA levels across clusters from sorted immune cells. Related to Supplementary Fig. 4b. Mean expression, fold changes, P values and adjusted P values are included.

Supplementary Data 2: Top marker genes per endocardial subcluster from published dataset43 . Related to Fig. 2.

Supplementary Data 3: List of differentially expressed genes between wild-type and cd74a; cd74b mutant ventricular tissue within endocardial subclusters 13 and 14. Related to Fig. 6i,j. Statistics are included.

Supplementary Data 4: List of differentially expressed genes between wild-type and cd74a; cd74b mutant ventricular tissue within the cardiomyocyte subcluster 12. Related to Fig. 7e. Statistics are included.

Supplementary Data 5: Top marker genes per cardiomyocyte subcluster. Related to Supplementary Fig. 15.