### Supplementary Table S4. The list of KEGG pathways associated with upregulated DEGs in colonic CAFs

| KEGG pathways                                      | Genes in Overlap (k) | k/K   | P-value       |
|----------------------------------------------------|----------------------|-------|---------------|
| Arrhythmogenic right ventricular cardiomyopathy (ARVC) | 5                    | 0.0676| 2.15E-07      |
| Regulation of actin cytoskeleton                   | 6                    | 0.0282| 2.18E-06      |
| Colorectal cancer                                  | 3                    | 0.0484| 1.84E-04      |
| Pancreatic cancer                                  | 3                    | 0.0429| 2.63E-04      |
| Pathways in cancer                                 | 5                    | 0.0154| 2.78E-04      |
| TGF-beta signaling pathway                         | 3                    | 0.0349| 4.82E-04      |
| Cytokine-cytokine receptor interaction             | 4                    | 0.0151| 1.26E-03      |
| Pathogenic Escherichia coli infection              | 2                    | 0.0357| 4.43E-03      |
| Focal adhesion                                     | 3                    | 0.0151| 5.29E-03      |
| p53 signaling pathway                              | 2                    | 0.0294| 6.46E-03      |
| Complement and coagulation cascades                | 2                    | 0.0294| 6.65E-03      |
| Melanoma                                           | 2                    | 0.0282| 7.03E-03      |
| Adherens junction                                  | 2                    | 0.0274| 7.41E-03      |
| Chronic myeloid leukemia                           | 2                    | 0.0274| 7.41E-03      |
| Hypertrophic cardiomyopathy (HCM)                  | 2                    | 0.0241| 9.49E-03      |
| Small cell lung cancer                             | 2                    | 0.0238| 9.71E-03      |
| Hematopoietic cell lineage                         | 2                    | 0.0238| 1.04E-02      |
| Prostate cancer                                    | 2                    | 0.0225| 1.09E-02      |
| Dilated cardiomyopathy                             | 2                    | 0.0222| 1.11E-02      |
| Gap junction                                       | 2                    | 0.0222| 1.11E-02      |
| MAPK signaling pathway                             | 3                    | 0.0112| 1.18E-02      |
| Leukocyte transendothelial migration               | 2                    | 0.0172| 1.79E-02      |
| Cell cycle                                         | 2                    | 0.016 | 2.06E-02      |
| Axon guidance                                      | 2                    | 0.0155| 2.19E-02      |
| Cell adhesion molecules (CAMs)                     | 2                    | 0.015 | 2.31E-02      |
| Wnt signaling pathway                              | 2                    | 0.0132| 2.93E-02      |
| Endocytosis                                        | 2                    | 0.011 | 4.07E-02      |
| Chemokine signaling pathway                        | 2                    | 0.0106| 4.40E-02      |
