**Supporting Table 1.** Primer sequences

|  |  |  |  |
| --- | --- | --- | --- |
| GeneBank | Symbol | Description | Sequence |
| NM\_001920 | DCN | decorin | F 5′-AATGCCATCTTCGAGTGGTC-3′R 5′-TGCAGGTCTAGCAGAGTTGTGT-3′ |
| NM\_002345 | LUM | lumican | F 5′-ACCAACTGTCAATGAAAACCTTG-3′R 5′-AGTAGGATAATGGCCCCAGG-3′ |
| NM\_004385 | VCAN | versican | F 5′-TCTCCCCAGGAAACTTACGA-3′R 5′-CACTCTTTTGCAGCCTCCTC-3′ |
| NM\_001897 | CSPG4 | chondroitin sulfateproteoglycan 4 | F 5′-TATGTTGGCCAGACTTGCAT-3′R 5′-TGCAGGTCTATGTCGGTCAG-3′ |
| [NM\_002997](http://www.ncbi.nlm.nih.gov/nuccore/NM_002997.4) | SDC1 | syndecan 1 | F 5′-CTCTGGCTCTGGCTGTGC-3′R 5′-AGCCATCTTGATCTTCAGGG-3′ |
| NM\_002081 | GPC1 | glypican 1 | F 5′-AGATCTACGGAGCCAAGGG-3′R 5′-TGTAGCCCTGGGGACAGAT-3′ |
| NM\_212482 | FN1 | fibronectin 1 | F 5′-CCATAAAGGGCAACCAAGAG-3′R 5′-ACCTCGGTGTTGTAAGGTGG-3′ |
| NM\_000088 | COL1A1 | collagen type I alpha 1 | F 5′-AAGAGGAAGGCCAAGTCGAG-3′R 5′-CACACGTCTCGGTCATGGTA-3′ |
| NM\_000501 | ELN | elastin | F 5′-GTCCTCCTGCTCCTGCTGT-3′R 5′-GCCCCTGGATAAAAGACTCC-3′ |

**Supporting Table 2.** Changes in the expression levels of junction-related genes in human prostate epithelial cells and fibroblasts upon their coculture. Average expression levels related to those in the initial cell in monoculture.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| GeneBank | Symbol | Description | PNT2/FB versus PNT2  | PC3/FB versus PC3  | FB/PNT2 versus FB | FB/PC3 versus FB |
| **Focal Adhesions** |   |   |   |   |   |   |
| NM\_001753 | CAV1 | Caveolin 1, caveolae protein | 1,84 | -1,34 | 2,42 | -2,1 |
| NM\_001233 | CAV2 | Caveolin 2 | 1,05 | -1,16 | 2,93 | 1,04 |
| NM\_001234 | CAV3 | Caveolin 3 | -1,48 | 2,45 | 2,5 | -1,86 |
| NM\_181501 | ITGA1 | Integrin, alpha 1 | 1,18 | 4,7 | 5,32 | 1,68 |
| NM\_002203 | ITGA2 | Integrin, alpha 2  | -1,62 | 2,63 | 1,02 | -2,45 |
| NM\_002204 | ITGA3 | Integrin, alpha 3  | -1,76 | 1,43 | 1,85 | -1,07 |
| NM\_000885 | ITGA4 | Integrin, alpha 4  | -1,13 | 8,14 | 2,95 | -7,2 |
| NM\_002205 | ITGA5 | Integrin, alpha 5  | 2,56 | 3,86 | 4,72 | -1,47 |
| NM\_000210 | ITGA6 | Integrin, alpha 6 | -1,33 | 1,44 | 1,19 | -1,3 |
| NM\_002206 | ITGA7 | Integrin, alpha 7 | -1,15 | 5,14 | 1,04 | -2,54 |
| NM\_003638 | ITGA8 | Integrin, alpha 8 | -1,23 | 4,75 | 1,12 | -2,91 |
| NM\_002207 | ITGA9 | Integrin, alpha 9 | -1,6 | 3,45 | 1,2 | -4,13 |
| NM\_002209 | ITGAL | Integrin, alpha L  | 1,37 | 14,39 | -1,17 | -1,46 |
| NM\_000632 | ITGAM | Integrin, alpha M  | 1,58 | 14,74 | 1,54 | 1,29 |
| NM\_002210 | ITGAV | Integrin, alpha V  | 1,35 | 1,72 | 5,21 | 1,46 |
| NM\_002211 | ITGB1 | Integrin, beta 1  | 1,01 | -1,1 | 3,43 | -1,56 |
| NM\_000211 | ITGB2 | Integrin, beta 2  | 1,15 | 5,15 | 1,76 | 4,75 |
| NM\_000212 | ITGB3 | Integrin, beta 3  | 1,62 | 4,3 | 3,35 | 1,67 |
| NM\_000213 | ITGB4 | Integrin, beta 4 | -1,74 | -2,47 | 50,45 | 41,5 |
| NM\_002213 | ITGB5 | Integrin, beta 5 | -1,56 | -1,81 | 5,15 | -1,78 |
| NM\_000888 | ITGB6 | Integrin, beta 6 | 1,32 | 10,61 | 2,94 | 1,23 |
| **Adherence Junctions** |   |   |   |   |   |   |
| NM\_004360 | CDH1 | Cadherin 1, type 1, E-cadherin | -1,09 | 2,94 | 65,28 | 4,72 |
| NM\_001792 | CDH2 | Cadherin 2, type 1, N-cadherin  | 1,81 | 1,06 | 4,45 | 3,82 |
| NM\_005618 | DLL1 | Delta-like 1 | 1,05 | 4,76 | 3,39 | -5,31 |
| NM\_017617 | NOTCH1 | Notch 1 | -1,43 | 1,66 | 3,51 | 1,63 |
| NM\_024408 | NOTCH2 | Notch 2 | 1,12 | -1,15 | 3,42 | -1,31 |
| NM\_000435 | NOTCH3 | Notch 3 | -1,03 | 8,86 | 1,94 | 1,77 |
| NM\_004557 | NOTCH4 | Notch 4 | -1,52 | 1,71 | 1,75 | -1,51 |
| NM\_002855 | PVRL1 | Poliovirus receptor-related 1 | -1,33 | 2,16 | 1,8 | 3,35 |
| NM\_002856 | PVRL2 | Poliovirus receptor-related 2 | -1,01 | 2,82 | 2,43 | -1,35 |
| NM\_015480 | PVRL3 | Poliovirus receptor-related 3 | 13,01 | -1,5 | 2,28 | -3,53 |
| **Tight Junctions** |   |   |   |   |   |   |
| NM\_021101 | CLDN1 | Claudin 1 | 1,47 | 3,74 | 26,71 | 2,28 |
| NM\_182848 | CLDN10 | Claudin 10 | -1,83 | 6,66 | 1,13 | -2,64 |
| NM\_005602 | CLDN11 | Claudin 11 | 1,65 | 10,29 | 5,4 | -2,45 |
| NM\_012129 | CLDN12 | Claudin 12 | 1,37 | -1,78 | 2,54 | -1,04 |
| NM\_144492 | CLDN14 | Claudin 14 | 1,11 | 1,79 | 1,6 | 10,13 |
| NM\_014343 | CLDN15 | Claudin 15 | -1,03 | 1,45 | 1,55 | -1,74 |
| NM\_006580 | CLDN16 | Claudin 16 | -1,53 | 1,14 | 1,27 | -5,96 |
| NM\_012131 | CLDN17 | Claudin 17 | -1,26 | 3,92 | -1,01 | -4,92 |
| NM\_016369 | CLDN18 | Claudin 18 | -1,56 | 1,74 | 1,44 | -6,34 |
| NM\_148960 | CLDN19 | Claudin 19 | -1,07 | 7,78 | 1,41 | -1,51 |
| NM\_020384 | CLDN2 | Claudin 2 | -1,48 | -1,03 | 1,1 | -2,18 |
| NM\_001306 | CLDN3 | Claudin 3 | 1,2 | 3,46 | 1,66 | 4,93 |
| NM\_001305 | CLDN4 | Claudin 4 | -1,4 | -1,46 | 21,75 | 57,53 |
| NM\_003277 | CLDN5 | Claudin 5 | 1,41 | 13,4 | 1,42 | 1,35 |
| NM\_021195 | CLDN6 | Claudin 6 | 1,13 | 12,08 | 1,17 | -2,71 |
| NM\_001307 | CLDN7 | Claudin 7 | -1,46 | 10,67 | 11,28 | 1,93 |
| NM\_199328 | CLDN8 | Claudin 8 | -1,17 | 5,22 | 1,24 | -1,7 |
| NM\_020982 | CLDN9 | Claudin 9 | -1,93 | 3,07 | 17,22 | -1,78 |
| NM\_138961 | ESAM | Endothelial cell adhesion molecule | 1,39 | 1,69 | 1,43 | 2,2 |
| NM\_016946 | F11R | F11 receptor | -1,34 | 1,28 | 59,5 | 56,2 |
| NM\_000201 | ICAM1 | Intercellular adhesion molecule 1 | 1,5 | 1,69 | 11,23 | 29,53 |
| NM\_000873 | ICAM2 | Intercellular adhesion molecule 2 | 1,15 | 10,98 | 2,48 | 1,04 |
| NM\_021219 | JAM2 | Junctional adhesion molecule 2 | -1,11 | 4,03 | 2,69 | -2,24 |
| NM\_032801 | JAM3 | Junctional adhesion molecule 3 | 4,88 | 2,37 | 1,15 | -8,74 |
| NM\_002538 | OCLN | Occludin | -1,35 | 1,09 | 33,25 | 9,62 |
| NM\_175610 | TJP1 | Tight junction protein 1  | -1,26 | 1,12 | 4,77 | 2,22 |
| NM\_004817 | TJP2 | Tight junction protein 2  | -1,36 | 1,02 | 1,74 | -3,35 |
| NM\_014428 | TJP3 | Tight junction protein 3  | -1,07 | 5,41 | 5,52 | -4,13 |
| **Gap Junctions** |   |   |   |   |   |   |
| NM\_000165 | GJA1 | Gap junction protein, alpha 1 | 2,34 | 3,29 | 4,02 | 3,8 |
| NM\_021954 | GJA3 | Gap junction protein, alpha 3 | 1,06 | 21,58 | 2 | 1,02 |
| NM\_002060 | GJA4 | Gap junction protein, alpha 4 | -1,31 | 5,12 | 1,64 | -3,5 |
| NM\_181703 | GJA5 | Gap junction protein, alpha 5 | -1,17 | 11,83 | 2,06 | -2,05 |
| NM\_005267 | GJA8 | Gap junction protein, alpha 8 | -1,31 | 4,13 | 1,77 | -3,2 |
| NM\_000166 | GJB1 | Gap junction protein, beta 1 | -1,39 | 3,34 | 2,26 | -1,18 |
| NM\_004004 | GJB2 | Gap junction protein, beta 2 | 1,05 | 7,67 | 1,18 | 1,49 |
| NM\_024009 | GJB3 | Gap junction protein, beta 3 | -1,3 | 2,74 | 4,88 | 3,5 |
| NM\_153212 | GJB4 | Gap junction protein, beta 4 | 1,35 | 13,2 | 2,35 | 1,17 |
| NM\_005268 | GJB5 | Gap junction protein, beta 5 | -1,54 | 1,84 | 14,09 | -1,07 |
| NM\_006783 | GJB6 | Gap junction protein, beta 6 | -1,59 | 1,88 | 1,36 | -10,68 |
| NM\_020435 | GJC2 | Gap junction protein, gamma 2 | 1,09 | 1,38 | 2,49 | 1,42 |
| NM\_020660 | GJD2 | Gap junction protein, delta 2 | -1,74 | 2,27 | 1,33 | -12,41 |
| NM\_181538 | GJC3 | Gap junction protein, epsilon 1 | -2,29 | 1,18 | 1,12 | -13,87 |
| **Desmosomes** |   |   |   |   |   |   |
| NM\_004948 | DSC1 | Desmocollin 1 | -1,54 | 3,1 | 1,22 | -5,11 |
| NM\_004949 | DSC2 | Desmocollin 2 | 1,09 | 1,11 | 14,41 | 23,52 |
| NM\_001941 | DSC3 | Desmocollin 3 | -1,54 | 1,18 | 2,1 | 9,79 |
| NM\_001942 | DSG1 | Desmoglein 1 | -1,18 | 6,78 | 1,15 | -4,5 |
| NM\_001943 | DSG2 | Desmoglein 2 | -1,17 | -3,76 | 55,67 | 56,07 |
| NM\_001944 | DSG3 | Desmoglein 3 | -1,33 | 5,73 | 1,13 | -3,65 |
| NM\_177986 | DSG4 | Desmoglein 4 | 1,8 | 34,9 | -1,82 | -3,56 |
| NM\_004415 | DSP | Desmoplakin | -1,44 | 5,6 | 10,29 | 1,24 |
| NM\_002230 | JUP | Junction plakoglobin | -1,06 | 3,66 | 37,67 | 4,79 |
| **Hemidesmosomes** |   |   |   |   |   |   |
| NM\_015548 | DST | Dystonin | 1,03 | 1,23 | 1,52 | -2,63 |
| NM\_000445 | PLEC | Plectin | -2,12 | 1,14 | 1,35 | 1,12 |