### S1 Table.

| Name                | Sequence (5’→ 3’)                      | Probe Number |
|---------------------|----------------------------------------|--------------|
| F_CEACAM1_tv345     | tacctgccacgcacaataact                 | 71           |
| R_CEACAM1_tv3       | tgggtaacatgttagagattctg              | 71           |
| R_CEACAM1_tv45      | aggccattttcttgttagag                 | 71           |
| F_CEACAM1_tv126     | cccatgctgtaacgtaaa                    | 57           |
| R_CEACAM1_tv126     | aggggcaactacaatcac                    | 57           |
| F_CEACAM3           | cacagtacccctgactacagca               | 1            |
| R_CEACAM3           | gtctgtgcgctgtctgtctt                | 1            |
| F_CEACAM5_tv1       | catagtcagagcatcagctctct              | 2            |
| R_CEACAM5_tv1       | tcagttgcggacagttg                     | 2            |
| F_CEACAM5_tv23      | tcagttgcggacagttg                     | 2            |
| R_CEACAM5_tv23      | atcatgtgcggacagttg                    | 2            |
| F_CEACAM6           | cgccatcaagtggagt                      | 21           |
| R_CEACAM6           | gaaataacacagggtgctcta                | 21           |
| F_DAAM1_tv12        | ggagctacaagttggctga                  | 46           |
| R_DAAM1_tv12        | tcctttcttaagccagcagac                | 46           |
| F_DAAM2_tv12        | aagagctcccactgcaagac                 | 60           |
| R_DAAM2_tv12        | ctttagaggcctcaccaca                  | 60           |
| F_DIAPH1_tv123      | tctgccacagaccaactct                  | 39           |
| R_DIAPH1_tv123      | tttttttttgacagatttttt                 | 39           |
| F_DIAPH2_tv1256     | ccaccaaaagtgagagttg                  | 59           |
| R_DIAPH2_tv1256     | ttttttcacccacagattt                  | 59           |
| F_DIAPH3_tv1235     | ttcatgcaagcaataaaggaga               | 6            |
| R_DIAPH3_tv1235     | ttctttaggctattgacagtttt             | 6            |
| F_FMN1_tv13         | gtacctcaagccgactttg                  | 1            |
| R_FMN1_tv13         | cgtacacatcctccttgc                  | 1            |
| F_FMN2              | aacccagcaagacactct                   | 6            |
| R_FMN2              | ggttgagatggtagtacag                  | 6            |
| Forward Primer | Reverse Primer | Length |
|----------------|----------------|--------|
| F_FMN1         | cttgcccaagtgtctgctc | 1      |
| R_FMN1         | tggaccttgcaggtctc | 1      |
| F_FMN2         | cacaagtgcctttgaagc | 21     |
| R_FMN2         | ggaggtaggtctatactcag | 21     |
| F_FMN3         | ttgcatacacaaccttctc | 30     |
| R_FMN3         | ttcaaggggtccctactcc | 30     |
| F_INF2_tv12    | gaggtctttgcctctgttc | 32     |
| R_INF2_tv12    | gagaggtctgggccagagc | 32     |
| F_FHOD1_tv12   | gctccctctctactgacagc | 79     |
| R_FHOD1_tv12   | acaaatctaggcaccaggtec | 79     |
| F_FHOD3_tv123  | caagacatggattcatgac | 52     |
| R_FHOD3_tv123  | gacccagtcacacatctagg | 52     |
| F_GRID2IP      | ctgctgacctagagactgc | 2      |
| R_GRID2IP      | cgtgtagcaggaggaagc | 2      |