**Table S1a: Primer sequences for molecular cloning.**

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| **Primer names** | **Primer sequences** | **Restriction enzyme** |
| PcDNA3.1-core | Forward: GCTGGATATCTGCAGAAATGAGCACAAATCCTAAACC | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGAGCGGAGACCGGGGTGG | HindIII |
| PcDNA3.1-E1 | Forward: GCTGGATATCTGCAGAAATGGCCGAAGTGAAGAACATCAG | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGCGCGTCCACCCCGGCGG | HindIII |
| PcDNA3.1-E2 | Forward: GCTGGATATCTGCAGAAATGCGCACCCATACTGTTGGGGG | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGTGCTTCGGCCTGGCCCA | HindIII |
| PcDNA3.1-p7 | Forward: GCTGGATATCTGCAGAAATGGCACTAGAGAAGCTGGTCAT | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGAGCATAAGCCTGTTGGGG | HindIII |
| PcDNA3.1-NS2 | Forward: GCTGGATATCTGCAGAAATGTATGACGCATCTGTGCATGG | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGGAGAAGACTCCACCCCTTGG | HindIII |
| PcDNA3.1-NS3 | Forward: GCTGGATATCTGCAGAAATGGCTCCCATCACTGCTTATGC | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGGGTCATGACCTCAAGGTCAG | HindIII |
| PcDNA3.1-NS4a | Forward: GCTGGATATCTGCAGAAATGAGCACGTGGGTCCTAGC | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGGCATTCCTCCATCTCATCAAAAG | HindIII |
| PcDNA3.1-NS4b | Forward: GCTGGATATCTGCAGAAATGGCCTCTAGGGCGGCTCT | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAG GCATGGGATGGGGCAGTC | HindIII |
| PcDNA3.1-NS5a | Forward: GCTGGATATCTGCAGAAATGTCCGGATCCTGGCTCCG | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGGCAGCACACGGTGGTATC | HindIII |
| PcDNA3.1-NS5b | Forward: GCTGGATATCTGCAGAAATGTCCATGTCATACTCCTGGAC | EcoRI |
| Reverse: TTTTGTTCGGGCCCAAGCCGAGCGGGGAGTAGGA | HindIII |
| pcDNA3.1-p53 | Forward: CCGCTCGAGATGGAGGAGCCGCAGTCAGA | XhoI |
| Reverse: CCGCTCGAGATGGAGGAGCCGCAGTCAGA | EcoRI |

**Table S1b: Primer sequences for qRT-PCR.**

|  |  |
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| **Primer names** | **Primer sequences** |
| UBD | Forward: GAGAAGCCTCTCATCTTACGGC |
| Reverse: TTGTGCCACTGAGCTGGACCTT |
| AKR1B10 | Forward: GAGGACCTGTTCATCGTCAGCA |
| Reverse: CGTCCAGATAGCTCAGCTTCAG |
| CXCL 10 | Forward: GGTGAGAAGAGATGTCTGAATCC |
| Reverse: GTCCATCCTTGGAAGCACTGCA |
| TMEM45B | Forward: GACCAGAAGGATGATGCCAACC |
| Reverse: CCGTGTCTCTTCATCCGAGTCA |
| KRT23 | Forward: GGTGACATCCACGAACTGAAGC |
| Reverse: AGCTTGCAGGAGTACCGAGACT |
| SCGN | Forward: GCCTCTAAAGATGGTCGCATTCG |
| Reverse: AAACTCCACGCTGCTGTCCAGT |
| SPINK1 | Forward: ATGACCCTGTCTGTGGGACTGA |
| Reverse: GCGGTGACCTGATGGGATTTCA |
| GPC3 | Forward: CATTGGAGGCTCTGGTGATGGA |
| Reverse: TTGTCCTTCGGAGTTGCCTGCT |
| MMP9 | Forward: GCCACTACTGTGCCTTTGAGTC |
| Reverse: CCCTCAGAGAATCGCCAGTACT |
| ISG15 | Forward: CTCTGAGCATCCTGGTGAGGAA |
| Reverse: AAGGTCAGCCAGAACAGGTCGT |
| SPP1 | Forward: CGAGGTGATAGTGTGGTTTATGG |
| Reverse: GCACCATTCAACTCCTCGCTTTC |
| MUC13 | Forward: TGGCTGTAACCAGACTGCGGAT |
| Reverse: GCATCAGGACACTTGAGACTGG |