**Supplementary Table 1.**

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| Microorganism | Target gene | Name | Sequence (sense) | Reference |
| *Anaplasma phagocytophilum* | *msp2* | ApMSP2F | 5'-ATGGAAGGTAGTGTTGGTTATGGTATT-3' | [1] |
|  |  | ApMSP2R | 5'-TTGGTCTTGAAGCGCTCGTA-3' |  |
|  |  | ApMSP2P | 5'-FAM530-TGGTGCCAGGGTTGAGCTTGAGATTG-BHQ1-3' |  |
| *Candidatus* Neoehrlichia mikurensis | *groEL* | GroEL-F2a | 5'-CCTTGAAAATATAGCAAGATCAGGTAG-3' | [2] |
|  |  | GroEL-R2a | 5'-CCACCACGTAACTTATTTAGCACTAAAG-3' |  |
|  |  | GroEL-P2a | 5'-X-CCTCTACTAATTATTGCtGAAGATGTAGAAGGTGAAGC-BHQ2-3' X= CALFluorRed590nm |  |
| *Borrelia burgdorferi* s. l. | *ospA* | B-OspA\_modF | 5'-AAT ATT TAT TGG GAA TAG GTC TAA-3' | [3] |
|  |  | B-OspA\_borAS | 5'-CTTTGTCTTTTTCTTTRCTTACA-3' |  |
|  |  | B-OspAmodPatto | 5'-Atto520-AAG CAA AATGTTAGC AGC CTT GA-BHQ1-3' |  |
|  | *flaB* | B-FlaB-F | 5'-CAGAIAGAGGTTCTATACAIATTGAIATAGA-3' |  |
|  |  | B-FlaB-Rc | 5'-GTGCATTTGGTTAIATTGCGC-3' |  |
|  |  | B-FlaB-Rt | 5'-GTGCATTTGGTTAIATTGTGC-3' |  |
|  |  | B-FlaB-Patto | 5'-Atto425-CAACTIACAGAIGAAAXTAAIAGAATTGCTGAI CA-Pho-3' X = BHQ-1-dT |  |
| *Borrelia miyamotoi* | *flaB* | FlabBm.motoiF2 | 5'-AGAAGGTGCTCAAGCAG-3' | [4] |
|  |  | FlabB.m.motoiR3 | 5'-TCGATCTTTGAAAGTGACATA T-3' |  |
|  |  | FlabBm.motoiPro | 5'-ATTO647N-AGCACAACAGGAGGGAGTTCAAGC-BHQ2-3' |  |
| *Rickettsia* genospecies | *gltA* | RickgltA-F-Stenos | 5'- TCGCAAATGTTCACGGTACTTT -3' | [5] |
|  |  | RickgltA-R-Stenos | 5'- TCGTGCATTTCTTTCCATTGTG -3' |  |
|  |  | Rickglt-probe-stenos | 5'- Atto520-TGCAATAGCAAGAAC CGTAGG CTGGATG-BHQ1 -3' |  |
| *Rickettsia helvetica* | *gltA* | Rick\_HelvgltA\_F2 | 5'- ATGATCCGTTTAGGTTAATAGGCTTCGGTC -3' | [6] |
|  |  | Rick\_HelvgltA\_R2 | 5'- TTGTAAGAGCGGATTGTTTTCTAGCTGTC -3' |  |
|  |  | Rick\_HelvgltA\_pr3 | 5'-Atto425-CGATC+C+ACG+TG+CCGCAGT-BHQ1-3'  X = BHQ-1-dT |  |
| Tick-borne encephalitis virus | 3′ non-coding region | F-TBE | 5'-GGGCGGTTCTTGTTCTCC-3' | [7] |
|  |  | R-TBE | 5'-ACACATCACCTCCTTGTCAGACT-3' |  |
|  |  | TBE-Probe-WT | 5'-FAM-TGAGCCACCATCACCCAGACACA-BHQ1-3' |  |
|  | *E* gene | TBEE-F6 | 5'-GGCTTGTGAGGCAAAAAAGAA-3' | [8] |
|  |  |  | 5'-TCCCGTGTGTGGTTCGACTT-3' |  |
|  |  |  | 5'-JOE-AAGCCACAGGACATGTGTACGACGCC-BHQ2-3' |  |

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