**Table S2: Oligonucleotides used for the amplification of TCRV L and S segments**

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| --- | --- | --- |
| **Primer name** | **Sequences (5' - 3')** | **Amplicon size (bp)** |
| **ARENA\_L (1)FWD** | **ACCGGGGATCCTAGGCGTT** | 518 |
| **ARENA\_L (1)REV** | **ACTTCAAGGTTGCATACAGTAAGTCC** |  |
| ARENA\_L (2)FWD | CTCAACCTCAAGGACCCCTGG | 528 |
| ARENA\_L (2)REV | GGGGGAAGTCACCTCTTGTTGG |  |
| **ARENA\_L (3)FWD** | **AAAGTGCCTTGACCTGTGAATATCG** | 521 |
| **ARENA\_L (3)REV** | **AAATCATCCTATCATCGATGGTGAACC** |  |
| ARENA\_L (4)FWD | CCCAATTCAATCTGACCATCATCTTCC | 522 |
| ARENA\_L (4)REV | CTTTAGTTTTGACCAATGCCTGCG |  |
| **ARENA\_L (5)FWD** | **TGGCTCTTTCACAGATGAGAATACCC** | 523 |
| **ARENA\_L (5)REV** | **GAGGAAAACCTGATCAGTCTTATTGGTAG** |  |
| ARENA\_L (6)FWD | GCTCTGAGCAACTTGAATAACGCA | 522 |
| ARENA\_L (6)REV | TGATGAGTGGTTGGAAATGTTGTGT |  |
| **ARENA\_L (7)FWD** | **GGTGCCCGCTACACTCTTGG** | 529 |
| **ARENA\_L (7)REV** | **CATGTTCTCTTGATCACTCTAAATGGGG** |  |
| ARENA\_L (8)FWD | TGCCATCTCAGCACATTTAAGACTG | 513 |
| ARENA\_L (8)REV | GGAAGTTATGAACATAGGAGTAGATCAAGG |  |
| **ARENA\_L (9)FWD** | **CTTCATCTTTCACTCTCAGTGCTTCA** | 523 |
| **ARENA\_L (9)REV** | **ACCGGGCTTGTTAGTATTGGTTCT** |  |
| ARENA\_L (10)FWD | CTTCTGTCAACCCTTCAAACATCATTG | 524 |
| ARENA\_L (10)REV | GGAAACACCTGACAGATTAACAGACC |  |
| **ARENA\_L (11)FWD** | **CTTCTTGAGCTTCTGTCAGTTGACC** | 522 |
| **ARENA\_L (11)REV** | **ACACATGTGAAGATGGTGTTCTTGTC** |  |
| ARENA\_L (12)FWD | CAAGTTGTCATCTCATCACACATCTCA | 500 |
| ARENA\_L (12)REV | AAATAGAGACGAATGTTAAGTGGGTGG |  |
| **ARENA\_L (13)FWD** | **AGCTTGGATAAATCAGGATATCTTGCC** | 508 |
| **ARENA\_L (13)REV** | **AGGATAACACCACCTCAGATTGTCC** |  |
| ARENA\_L (14)FWD | AATTCAGAGTTTGATTTCTCCCTGTCC | 525 |
| ARENA\_L (14)REV | CCTTCTGAGGTCAGGCATCACA |  |
| **ARENA\_L (15)FWD** | **CCTCAATATCAATCTCTGCGGACG** | 525 |
| **ARENA\_L (15)REV** | **GCACAGTGGATCCTAGGCGG** |  |
| TACAR(A1) F | GCRTTTCTTGTCCATAYTTGCCTAACTG | ~333 |
| TACAR(A1) R | TGRCYARRCATAACATRGGW |  |
| **TACAR(A2) F** | **RCTYGGTTCYTGTYTTGRAA** | ~606 |
| **TACAR(A2) R** | **TTGATGGTGTGGCTCAGGAC** |  |
| TACAR(A3) F | TTTCTGAGATRCTGRGYAAGGAGT | ~621 |
| TACAR(A3) R | TCACTTCAGATCAAGCAAGACW |  |
| **TACAR(A4) F** | **YACAGCATCCTCAATGTCCTTC** | ~340 |
| **TACAR(A4) R** | **GGACAACACRAGCGTWGAYCTGAC** |  |
| TACAR(A5) F | GCYCCTGCTTTYACTGCTGCCR | ~379 |
| TACAR(A5) R | TGGGAAATCTGYCACAATCTCAAC |  |
| **TACAR(A6) F** | **GCTGAGCAAATCCGAGTGTTYTY** | ~493 |
| **TACAR(A6) R** | **TCTAACTCTTTCRCTGAGC** |  |
| ARENA\_S (1)FWD | TCTTGTCCATATTTGCCTAACTGAACC | 525 |
| ARENA\_S (1)REV | TTATTCCTGCATAGAAGACCTGGGT |  |
| **ARENA\_S (2)FWD** | **TGCTTGGTGGATTGAAGCCATC** | 527 |
| **ARENA\_S (2)REV** | **GAGCATTGATGGTGTGGCTCAG** |  |
| ARENA\_S (3)FWD | CAGAGTTTTGTGACATGCTAAGGCT | 524 |
| ARENA\_S (3)REV | CAAATGTGCTGTCCTAATGTCTACGA |  |
| **ARENA\_S (4)FWD** | **GGGAAGTATCTGCCTCTGAAGAAGC** | 524 |
| **ARENA\_S (4)REV** | **GAAGGACATTGAGGATGCTGTGC** |  |
| ARENA\_S (5)FWD | CCATGTTGGGAGGTAGTAACCCT | 526 |
| ARENA\_S (5)REV | GAGTGAGTCCCGACAACTTCTCT |  |
| **ARENA\_S (6)FWD** | **TCCCTTCTCTTGACTTGTAAGGTGT** | 523 |
| **ARENA\_S (6)REV** | **CCTGGCAAGGGATGAACTAATGGA** |  |
| ARENA\_S (7)FWD | GTTCAGTTTGCTGGAATCTTTCACATC | 519 |
| ARENA\_S (7)REV | GTGGATCCTAGGCAAATTGTCTAACTC |  |