| **Supplementary Table S2. List of Primer Sequences**  |
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| **Gene**  | **Exon** | **Primer Name** | **Primer Sequence** |
| MYD88 | 1-5 | MYD88-FULL-F | GACCTCTCCAGATCTCAAAAGGCAGATTCC |
|  |  | MYD88-FULL-R | GCAGAAGTACATGGACAGGCAGACAGATAC |
|  |  | MYD88-SEQ-E1R | TCTCTCCATGGGAGACAGGATGCTG |
|  |  | MYD88-SEQ-E2F | TGGGTAAAGAGGTAGGCACTCCCAG |
|  |  | MYD88-SEQ-E2R | GCCCATCTGCTTCAAACACCCATGC |
|  |  | MYD88-SEQ-E3F | AAGCCTTCCCATGGAGCTCTGACCAC |
|  |  | MYD88-SEQ-E3R | GCTAGGAGGAGATGCCCAGTATCTG |
|  |  | MYD88-SEQ-E4F | ACTAAGTTGCCACAGGACCTGCAGC |
|  |  | MYD88-SEQ-E4R | ATCCAGAGGCCCCACCTACACATTC |
|  |  | MYD88-SEQ-E5F | GTTGTTAACCCTGGGGTTGAAG |
|  | 1 | MYD88-FFPE-E1.2F | TGCGGCGCCGCCTGTCTCTGTTC |
|  |  | MYD88-FFPE-E1.2R | CCCCCAGGTACGAGGCCAGGAAG |
|  | 1 | MYD88-FFPE-E1.1F | GTGCCGCAGGAGAAAGAGGAAGC |
|  |  | MYD88-FFPE-E1.1R | TCCAGTCGGCCGCCACCTGTGTC |
|  | 2 | MYD88-FFPE-E2R | CTGTCCCATGGGAACAGTATTGG |
|  |  | MYD88-FFPE-E2F | GCTGCTTTACTCTGTCTCTTCCC |
|  | 3 | MYD88-FFPE-E3.2R | CAGGGCTTCATGCATCCACGCAC |
|  |  | MYD88-FFPE-E3.2F | GCAGGAGATGATCCGGCAACTGG |
|  | 3 | MYD88-FFPE-E3.1R | CAGGACATCGCGGTCAGACACAC |
|  |  | MYD88-FFPE-E3.1F | TCCCATGGAGCTCTGACCACCAC |
|  | 4 | MYD88-SEQ-E4F | ACTAAGTTGCCACAGGACCTGCAGC |
|  |  | MYD88-SEQ-E4R | ATCCAGAGGCCCCACCTACACATTC |
|  | 5 | MYD88-FFPE-E5F | GCAAGGGCCTGATGCCAGCATG |
|   |  | MYD88-FFPE-E5R | GATACACACACACCCAGGGCCTC |
| CARD11 | 4 | CARD11 FFPE 4-1 F | CTTTTTCCACTTCCCAGTCCTC |
|  |  | CARD11 FFPE 4-1R | CAGGTCCTTGGCCTTCATCT |
|  | 4 | CARD11 FFPE 4-2 F | CACTTCCTGATGAACGAGGTC |
|  |  | CARD11 FFPE 4-2R | TTCATCTTGTAGTACCGCTCCTG |
|  | 4 | CARD11 FFPE 4-3 F | GATGAAGGAAGAGCGGGACA |
|  |  | CARD11 FFPE 4-3R | CTGGCGGAGTAGCCCTTG |
|  | 5 | CARD11 FFPE 5-1 F | TTCTTGCCACCTGCCTTCT |
|  |  | CARD11 FFPE 5-1R | TCCAGTTCCAGAACCTGCTC |
|  | 5 | CARD11 FFPE 5-2 F | CTGAAGAATGACATTGAAAATCG |
|  |  | CARD11 FFPE 5-2R | AGGCCCTCACCTGGATGAT |
|  | 6 | CARD11 FFPE 6-1 F | ACCCTGACCCTCTGAAACCT |
|  |  | CARD11 FFPE 6-1R | TGCAGGTTGTAGATCCTGTTG |
|  | 6 | CARD11 FFPE 6-2 F | GAGGACAGGCAGGAGCTG |
|  |  | CARD11 FFPE 6-4R | ACTGCCCCCTGGTGTGAA |
|  | 7 | CARD11 FFPE 7-1 F | TCGATGCGCATATTGATTTC |
|  |  | CARD11 FFPE 7-1R | CTGCAGGTGGTGCCTGTA |
|  | 8 | CARD11 FFPE 8-1 F | CCCAAAGCAGCCTTCGTC |
|  |  | CARD11 FFPE 8-1R | CTCGATCCTCATCTCGTCGT |
|  | 8 | CARD11 FFPE 8-2 F | GAGCTGGAGGAGAAGAACGA |
|  |  | CARD11 FFPE 8-2R | GGTTGTTGCTGTCCTTGGAG |
|  | 8 | CARD11 FFPE 8-3 F | CTCTCCAAGGACAGCAACAA |
|  |  | CARD11 FFPE 8-3R | CTTCAGGTGTGGGTCTCCA |
|  | 9 | CARD11 FFPE 9-1 F | CACCACTAACGCCAGCTTTT |
|  |  | CARD11 FFPE 9-1R | GAGGTGGAAGAATCGTCAGC |
|  | 9 | CARD11 FFPE 9-2 F | CAATGGTCAAGAAGCTGACG |
|  |  | CARD11 FFPE 9-2R | AGACCCTCTGCCCTGCAC |
|  |  | CARD11\_1\_F  | GGAAGTTGCCGTGTGCGGTA |
|  |  | CARD11\_1\_R  | GAAAGGGTAGACTCAACCGCAGGA |
|  |  | CARD11\_2\_F  | GATTTACGTCATCTGGGCTCC |
|  |  | CARD11\_2\_R  | GAACCATGCCACTACTGAGGAC |
|  |  | CARD11\_3\_F  | GTCACCCTGGCGGAGTAGCC |
|  |  | CARD11\_3\_R  | CAGTGCCTCGTGGGCAGAGT |
|  |  | CARD11\_4\_F  | CTGGAGAAGGTTTCTTGGAGC |
|  |  | CARD11\_4\_R  | ACACCCTGGCAGGTTCATC |
|  |  | CARD11\_5\_F  | CCCAGGCCCTCATCTGGTTG |
|  |  | CARD11\_5\_R  | CCCAGGATACGCCCAAGCAA |
|  |  | CARD11\_6\_F  | TCCCCTATGTTACCTGGTCTGTAGTG |
|  |  | CARD11\_6\_R  | GCCTGTGACTTCCAAAAAAGCC |
|  |  | CARD11\_7\_F  | CCTCAGTGCCCTCATCTGTAAAATG |
|  |  | CARD11\_7\_R  | CAAAGGACAAGGAGCCATTCATTG |
|  |  | CARD11\_8\_F  | AGCGAGTCGCAGGATTTCCA |
|  |  | CARD11\_8\_R  | CCAGAAGCCTGGGAGGAGGA |
|  |  | CARD11\_9\_F  | GACAGACCCACCGGGAGAGG |
|  |  | CARD11\_9\_R  | GCCGCTGTGTCTTGTCGTCC |
|  |  | CARD11\_10\_F  | TCTCTTCCACCTCAAACCCTC |
|  |  | CARD11\_10\_R  | ATAAGCTGGGTCCCTGGATG |
|  |  | CARD11\_11\_F  | GGCCCGGGAACCTGATTTCT |
|  |  | CARD11\_11\_R | CAAGCCTCCTCCAGCCAAGG |
|  |  | CARD11\_12\_F  | GCCCACTCTCTGCCCTCCTG |
|  |  | CARD11\_12\_R  | TCAGAAGCAAGGCCACTCGG |
|  |  | CARD11\_13\_F  | AAAGCCCACATGAATGGTCCC |
|  |  | CARD11\_13\_R  | CTCAGCCATCTGTGCCAGGG |
|  |  | CARD11\_14\_F  | CTTCTCGGAGCCAGGACAC |
|  |  | CARD11\_14\_R  | ATGGCTGAATGCAAGGCTTAG |
|  |  | CARD11\_15\_F  | TTGCCGTCCCTGTGTGCTCT |
|  |  | CARD11\_15\_R  | CCCATGCTTCTGCATCCTGC |
|  |  | CARD11\_16\_F | GGTGAGGAAAGCTGCTGTAGG |
|  |  | CARD11\_16\_R  | AAAGCAGTGGCCTTCTTTGG |
|  |  | CARD11\_17\_F | CCTACGCAGAGTCGGACACG |
|  |  | CARD11\_17\_R  | CACAGGGTGCTTGGCAGACC |
|  |  | CARD11\_18\_F | AAGAAAGCGTTAGCATGGAGG |
|  |  | CARD11\_18\_R  | GACAGGAGATGTGAGGCACTG |
|  |  | CARD11\_19\_F  | TGGGCACCGATTCACTCATTTAC |
|  |  | CARD11\_19\_R | TGTAGAGATGGGGGTCTTACTATGTTG  |
|  |  | CARD11\_20\_F  | TCACACTGACGGTGGCTTC |
|  |  | CARD11\_20\_R  | GAGGGAAGAGGAGGAAAGAGG |
|  |  | CARD11\_21\_F | TCGTTTGGTGAATGCAATACCTGT |
|  |  | CARD11\_21\_R  | AGAGCCCAGAAGGTGGCAGG |
|  |  | CARD11\_22\_F | GGTCTCATCTCCTGGATCAGC |
|  |  | CARD11\_22\_R | AGGTCAGTCCCGTACTTGGTG |
|  |  | CARD11\_23\_F  | ATAGGGAGAAGCAAGGCAGG |
|  |  | CARD11\_23\_R | CACCCACTGCATCTCTCTGC |
| TNFAIP3 | 2 | TNFAIP3 2.1F | TTTTCCTTTCCTTTTCAGGTGTT |
|  |  | TNFAIP3 2.1R | GCAAGTTCTGAACATTTCCAGTG |
|  | 2 | TNFAIP3 2.2F | CACCGATACACACTGGAAATGTT |
|  |  | TNFAIP3 2.2R | AGGCAAAAGAAACACAACAGAAC |
|  | 3 | TNFAIP3 3.1F | GACTTTCCTTCTCTTCTCCTCCTT |
|  |  | TNFAIP3 3.1R | GTTGCGTGTGTCTGTTTCCTT |
|  | 3 | TNFAIP3 3.2F | GTACTGAGGAAGGCGCTGTT |
|  |  | TNFAIP3 3R | CCACCATGGAGCTCTGTTAGTAG |
|  | 4 | TNFAIP3 4F | ACCCCGCTCCCCTTAGAAC |
|  |  | TNFAIP3 4R | GCATAAGGCTGAAAGCATTTAAGTA |
|  | 5 | TNFAIP3 5.1F | GGCCTCATTTTCCTTTCTCTTT |
|  |  | TNFAIP3 5.1R | GCTGTCATAGCCGAGAACAAT |
|  | 5 | TNFAIP3 5.2F | TGGAATTTACTTGCCTCTCCA |
|  |  | TNFAIP3 5.2R | AACCCTGATGTTTCAGTGTCTAGTT |
|  | 6 | TNFAIP3 6.1F | ACTTACCTATGGCCTTGTTTAGTAGAA |
|  |  | TNFAIP3 6.1R | GCTTCTCCTTCATCTCATTTTCA |
|  | 6 | TNFAIP3 6.2F | GTTCACTTTTTGACAGATCCTGA |
|  |  | TNFAIP3 6.2R | CAGATGACACAGGAGAGAGCTG |
|  | 7 | TNFAIP3 7.1F | GCTAATGATGTAAAATCTTGTGTGTG |
|  |  | TNFAIP3 7.1R | GAAGGTTCCATGGGATTCTG |
|  | 7 | TNFAIP3 7.2F | GCAGGAAAACAGCGAGCAG |
|  |  | TNFAIP3 7.2R | TGGAGTTCAGCTTTGGGAGT |
|  | 7 | TNFAIP3 7.3F | AGAGAGGCGGCAAAAGAATC |
|  |  | TNFAIP3 7.3R | GGGGCTCCTGCACTTCAT |
|  | 7 | TNFAIP3 7.4F | GACAGCACCCAGCCCTTT |
|  |  | TNFAIP3 7.4R | GATCCCATTAAATGTCCTGGTAA |
|  | 7 | TNFAIP3 7.5F | CACTTGGATCCCGGGAAGT |
|  |  | TNFAIP3 7.5R | GTTTCCAGCTCTGTGGCAAG |
|  | 7 | TNFAIP3 7.6F | CAGCGTTCCAAGTCAGATCC |
|  |  | TNFAIP3 7.6R | CCGCTGTGTTAGGAAGTCAA |
|  | 8 | TNFAIP3 8F | TGGTACTAACTAGCATCCATTCTCA |
|  |  | TNFAIP3 8R | GAGGGAAAGCTCCTCCAAGT |
|  | 9 | TNFAIP3 9.1F | TTAATGATCTGCCTGTTCTTTCC |
|  |  | TNFAIP3 9.1R | CCATCCTCTGGTTGGGATG |
|  | 9 | TNFAIP3 9.2F | CAGCGAGGAGCTCTGCAT |
|  |  | TNFAIP3 9.2R | AGGAGGTGACCCACCTGTTT |
|  | 2 | A20E2INTF | GTTTCCTGCAGGCAGCTATAGAGG |
|  |  | A20E2R | AGCTTCATGAATGGGGATCCAGCAG |
|  | 3 | A20E3INTF | ACCTTTGCTGGGTCTTACATGCAG |
|  |  | A20E3R | TATGCCCACCATGGAGCTCTGTTAG |
|  | 4-5 | A20E4-5INTF | TACAGGGAGTACAGGATACATTCAAGC |
|  |  | A20E4-5R | GGAAAACCCTGATGTTTCAGTGTCTAG |
|  | 6 | A20E6F | TGAGATCTACTTACCTATGGCCTTG |
|  |  | A20E6INTR | TCAGGTGGCTGAGGTTAAAGACAG |
|  | 7 | A20E7.1INTF | GAGCTAATGATGTAAAATCTTGTGTGTG |
|  |  | A20E7.1R | CAAAATCCGTTGTGCTGCACATTCAG |
|  | 7 | A20E7.2F | CTCTCGGGGAGAAGCCTATGAGC |
|  |  | A20E7.2INTR | GAACAAAACCCCTTCTGGACAGCAG |
|  | 8 | A20E8F | ACTGTCAGCATCTCTGTATCGGTG |
|  |  | A20E8INTR | TGTCACTGTCGGTAGAAAACGCTC |
|  | 9 | A20 EXON 9F | TGATCTGCCTGTTCTTTCCA |
|  |  | A20 EXON 9R | GGGTTCAGAGGATAGCACCA |
| CD79A | 5 | CD79B-FFPE-E5R | AGGGAGCCTGCACCCAGGTCATG |
|  |  | CD79B-FFPE-E5F | TGTGGTCCCGGCCTGAGTTCCAC |
|  | 4 | CD79B-FFPE-E4R | CTGACCCCGAGGACTCAGAGCTG |
|  |  | CD79B-FFPE-E4F | ACTCTGATCTCCATCCCTCTCCG |
|  | 1 | CD79A-E1R | ACGATTTCTATAGGCATCTTCCCTGG |
|  |  | CD79A-E1F | ACTGCTGCAACTCAAACTAACCAACC |
|  | 2 | CD79A-E2R | CCACTTCAAAGATAAACCGAGTGTCC |
|  |  | CD79A-E2F | CAACCAGGTATGTCCTCTCTCCTTCC |
|  | 3 | CD79A-E3R | CCCAAGTTTTGGATGGGGAACCTCAG |
|  |  | CD79A-E3F | TGGGTTTCAAACCGGCTTGGACAGAG |
|  | 4-5 | CD79A-E4-5F | CCAGGAGGGTCTGAAAGATATTCACC |
|  |  | CD79A-E4-5R | CCAGAAGGGCTGAAAGGAGAATGTCC |
| CD79B | 5 | CD79A-FFPE-E5R | CACTGGAGCTGGGTGCACAGCAG |
|  |  | CD79A-FFPE-E5F | AGGGTGCTGATGTTCGCTGCCTC |
|  | 4 | CD79B-FFPE-E4R-NEW | ACACCAGCAGATAGTGGCCACTGAC |
|  |  | CD79B-FFPE-E4F-NEW | GGGGGACACTAACACTCTGATCTCC |
|  |  | CD79B\_1\_F | GGTGCAGTTACACGTTTTCCTCC |
|  |  | CD79B\_1\_R | TGGTTGCGGGAGAGGAATGATG |
|  |  | CD79B-E1R | GCCCAGACAGCTGGAGATGAGAG |
|  |  | CD79B-E2F | GCTCCGGGAACATAGAGGGCATG |
|  |  | CD79B-E2R | GGACAGGGACCATAGTCGGACAC |
|  |  | CD79B-E3F | TGGGGCTGGCACTCAGGAAGATG |
|  |  | CD79B-E3R | GGGCCATGACCATCACCACAAGAG |
|  |  | CD79B-E4F | ACCTGAGGGAGCTGCCCTTGTAG |
|  |  | CD79B-E4R | ACCCTGCATATGCCTGGCCTATGC |
|  |  | CD79B-E5-6F | GCAGAATGCACCTCACTCCTGACC |
|  |  | CD79B-E5-6R | GCAGCTCCGAAGCAGTCACTGAG |