**Table S2. Padlock probes with their 5’ and 3’ β-lactamase gene target recognition arms, C2CA sequence and a unique microarray barcode (a 16S rRNA gene sequence)**

|  |  |  |
| --- | --- | --- |
| Padlock probe name | Sequence 5'-3' | Length (bp) |
| PL ACT1 Pos.384 | AGGTTGCCAGATCCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTACAAGACTCCAGCCTGCCAAACCTCCTGCGGTAT | 80 |
| PL ACT1 Pos.852 | CCTGATACATGGCCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGCATCCATCAGCGACACCCGATTTCCCAGCCTAACC | 79 |
| PL CMY1 Pos.237 | AACAGGGTCTGCTCGGCGCGTGTATGCAGCTCCTCGAGTAGCCGACTTCGCAACTCGTTGTACTTCCCCACGGATCCTATCTCG | 84 |
| PL CMY1 Pos.621 | GGTGTGGTGCATGCGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTGCGAGTAACGTCAATCGCCTCGGCACATTGACATA | 80 |
| PL CMY2 Pos.1057 | ACGATGCCAAGGTTTGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCATGAGGCCCGAAGGTCTTGTTTGCCAGCATC | 77 |
| PL CMY2 Pos.424 | CTAACGTCATCGGGGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCAGCCTGCCAGTTTCGAATGAATGCGGCTTTATCC | 80 |
| PL CTX-M1 Pos.429 | GGCCGCCAACGTGAGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCCATCAGGCAGATCCCCATACGGTGACGCTAGCCG | 79 |
| PL CTX-M1 Pos.45 | AACAGCGTGACGGTTGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTTGACACCTTCCTCCCGACTCGGCACACTTCCTAAC | 81 |
| PL CTX-M2 Pos.469 | TCATCACCCAACGAGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCAACCAGTTTCAGATGCAATTCCCTCCAGACGGAAGGTC | 84 |
| PL CTX-M2 Pos.779 | TAGGTCACCAGAACCAGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCGTGGTAACCGTCCCCCTTGTCCGGTTGGGTAAAG | 81 |
| PL CTX-M25 Pos.469 | TCATCGCCAATCGTAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTCCCCTGTGCTACCGCTCGAGCCGGAACGTG | 76 |
| PL CTX-M25 Pos.722 | CGTACCATAACCGCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGCACCACCTTCCTCCTCGCTGCGCGATATCATTCGT | 79 |
| PL CTX-M8 Pos.468 | TATCCCCAATCGCACGCGCGTGTATGCAGCTCCTCGAGTAGCCGGGTCCATCTGGTAGTGATGCAAGTGGAGCCGGAAGGTGT | 83 |
| PL CTX-M8 Pos.813 | CGACTTTCTGCCTTCTGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTGGTTAGTTACCGTCACTTGGTGGGCGAGTACGTCACGA | 85 |
| PL CTX-M9 Pos.496 | GGTTCAGTGCGATCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGGGCCAAGGCTTATACTCGCTGGGCGGTATTCAGCGTA | 81 |
| PL CTX-M9 Pos.731 | ATCATTGGTGGTGCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCGCCAAGCCACAAGGACTCCAGATCACCGCAAT | 78 |
| PL DHA1 Pos.1029 | GGAATAAAGGCGACATGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTCCGGTGGAAAAAGAAGCGTGCCACCTGTTTTTCC | 81 |
| PL DHA1 Pos.359 | TGTGATCCCCTTCCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCTCTTTTTCCGGTGGAGCAAGAGCCAGATCCAGCAA | 80 |
| PL FOX1 Pos.825 | AGAAACCGGTATGGGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCGTCTTTCACTTTTGAACCATGCTGTCTCCCACCGAGT | 83 |
| PL FOX1 Pos.988 | GTTATAGAGCCGCTGCGCGCGTGTATGCAGCTCCTCGAGTAGCCGGGGTCAGAGGATGTCAAGATTTGGGTCGAGCCCGTCTT | 83 |
| PL GES1 Pos.447 | ACAGAGTCGCCAATTTGCGCGTGTATGCAGCTCCTCGAGTAGCCGATCTCTAGAGGGGTCAGAGGATGTCGGTCTAGCCGACTC | 84 |

**Table S2** continued

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| --- | --- | --- |
| PL GES1 Pos.609 | CGATCAGCCACCTCTGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCCATGCGGCATAAACTGTTATGCCTCCCGTTTGGTTTC | 83 |
| PL IMI1 Pos.448 | CCGCATGAATTTAGTCATGCGCGTGTATGCAGCTCCTCGAGTAGCCGGGACGTTCAGTTACTAACGTCCTTGAAATCTTTATCTCCAATCGA | 92 |
| PL IMI1 Pos.790 | TCGTTTTTTGTAGTGTATACGCGCGTGTATGCAGCTCCTCGAGTAGCCGAACCATGCGGTTCAAACAACCATCCTCATGCTTGGCTTCTTTT | 92 |
| PL IMP1 Pos.387 | TTTGTGGCTTGAACCTGCGCGTGTATGCAGCTCCTCGAGTAGCCGCGTTCGCAACTCATCCGGAGAAGAACTCCGCTAAATGAA | 84 |
| PL IMP1 Pos.619 | TTTGCCTTACCATATTTGGGCGCGTGTATGCAGCTCCTCGAGTAGCCGACCCGTTCGCGACTCAAGAAAACACGACTTGGAACAACCAGT | 90 |
| PL IMP24 Pos.519 | ACAAAACAACCACCGAGCGCGTGTATGCAGCTCCTCGAGTAGCCGAGCATACTATGGTTAAGCCACAGCCAGACCGTCCGGTTTA | 85 |
| PL IMP24 Pos.657 | AGAGTGATGCGTCCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCTCCTCGTCTGTTCGCTCGACTTCCCATGTACGTTTCA | 83 |
| PL KPC1 Pos.270 | GGATGGGTGTGTCCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGGTCGTACTCCCCCAGGCGGAGGCATTTTTGCCGTAAC | 81 |
| PL KPC1 Pos.794 | ATCCTTGTTAGGCGCGCGCGTGTATGCAGCTCCTCGAGTAGCCGACTTATAGATGGATCCGCGCTGCATCTCGCTGTGCTTGTC | 84 |
| PL MIR1 Pos.1109 | GTATGCCGCCTCAACGCGCGTGTATGCAGCTCCTCGAGTAGCCGAATCAGCCATCGGCCAACCCTAGCGTCGAGGATACG | 80 |
| PL MIR1 Pos.147 | AAATTACCGCCACCGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCAGTTCGCGCCGCAGGGGTGGCTGACCCTGAT | 76 |
| PL NDM1 Pos.563 | GTCACTGGTGTGGCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGGTAACACTCCCGTACGCTGCCTTTCCCAACGGTGATATT | 83 |
| PL NDM1 Pos.724 | TCATGCTGGCCTTGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCATCCCCATCCTCCACCGATGAAATGGCTCATCACGA | 80 |
| PL OXA1 Pos.540 | GCGGCCATCACTTTACGCGCGTGTATGCAGCTCCTCGAGTAGCCGCGCCAGAGTTAAACCCCAACCCCCAGCACCGCGGCC | 81 |
| PL OXA1 Pos.852 | AAGTGCGGACACAAAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCAGTCCCGCACTTTCATCTTCCGCCCCAAGTTTCCTGT | 82 |
| PL OXA2 Pos.184 | GTTTCTTCGATCGCACGCGCGTGTATGCAGCTCCTCGAGTAGCCGTCTACCTCCCTCTGACACACTCGAATGCAGGCGAGTAGC | 84 |
| PL OXA2 Pos.656 | CCATCCTACCCACCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGAGAGTTCCCGAAGGCACTCCCAGTCGGCCACTCAAC | 80 |
| PL OXA23 Pos.377 | AGACTGGGACTGCAGAGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCCACTCGTCAGCAGAGCAGCGCAAGTTCCTGAT | 79 |
| PL OXA23 Pos.9 | CCACATAGCAAGTAAAATATGCGCGTGTATGCAGCTCCTCGAGTAGCCGCGATAGTGAGAGGCCCGAAGGTCAGAAAGAAAAAGAGAAGCAA | 92 |
| PL OXA24 Pos.345 | AAAGTCATATCTTTCTCCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGCGATAGTGCAAGGTCCGAAGAGCCTGCCATTGCCTCACCT | 88 |
| PL OXA24 Pos.752 | AGACATTCCTTCTTTCATTTGCGCGTGTATGCAGCTCCTCGAGTAGCCGCAAGGGCACAACCTCCAAGTAGACAATTTCATTACGAATAGAACC | 94 |
| PL OXA48 Pos.448 | TCTACATTGCCCGAAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCTCCCCGCTGAAAGTGCTGTCGAGCCAGAAACTG | 79 |
| PL OXA48 Pos.705 | TCCATATTCATCGCAAGCGCGTGTATGCAGCTCCTCGAGTAGCCGTCCACTGCAGTTCCCAGGTTGACCGATGTGGGCATA | 81 |
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**Table S2** continued

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| PL OXA51 Pos.439 | AACACGCTTCACTTCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGATCAAAAAGATGGACCGGCCAGCGTGCATTGCCATAACC | | 84 |
| PL OXA51 Pos.712 | | ATTCCCTTGAGGCTGGCGCGTGTATGCAGCTCCTCGAGTAGCCGATCAAAAAAGATGGACCGGCCAGCAGGGAGAACGCTACAAT | |
| PL OXA58 Pos.692 | | CCACATACCAACCCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGGGTTGGGTCCAGTACGCATCAGATGCCTTTTCAACAAAAC | |
| PL OXA58 Pos.788 | | CTAAAGACAATTGTTTACGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCAAGCCACAAGGACTTGGGGTTCCAACTTATCTAGCACAT | |
| PL PER1 Pos.322 | | ATTATCGGAGCCCAGGCGCGTGTATGCAGCTCCTCGAGTAGCCGTCCTGGTTCGCCCGAGGGTCCCTGATACGCTTTC | |
| PL PER1 Pos.734 | | TTTTCCGGCTTTGATGCGCGTGTATGCAGCTCCTCGAGTAGCCGGTGCTTACCATAGGTAGACCGTCCGATTAGTGGCCGCAGT | |
| PL RTG4 Pos.151 | | CCAAATCATGCGCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGTCATAGAAACACCGCCCGATCCCAACGTTTTCCCGTTT | |
| PL RTG4 Pos.497 | | TGTTTCCCAGCGATCGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCCGAGCGGGTCATCATAGAAACACCCGCTTCGTTAAGTTC | |
| PL SFO1 Pos.587 | | TAGGGTTTGCAGGCTGCGCGTGTATGCAGCTCCTCGAGTAGCCGCAAGACAGTGCACTCCGTGAGGAGCCTTGCCCAAAGT | |
| PL SFO1 Pos.855 | | TTTAGCGGCAGCAGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCCAAATCGACACCGTTTACAGCGTCCCTTCGGTGACAAT | |
| PL SHV1 Pos.261 | | GGATCTTTCGCTCCAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCAATAGTGCGAGGCCCGAAGGTCCTGCTGGCGATAGT | |
| PL SHV1 Pos.734 | | GTTATTCGGGCCAAGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCGCCACCGAAGTGTAAACACCCAATGCGCTCTGCTTT | |
| PL SME1 Pos.531 | | CGTTTATCTCCTGGGAGCGCGTGTATGCAGCTCCTCGAGTAGCCGAGGCTTTCCTCCCCAACTAAAGTGCGGCGTTGAAGTGTCA | |
| PL SME1 Pos.726 | | GTACCTATAGCCCCACGCGCGTGTATGCAGCTCCTCGAGTAGCCGGGCACGGATCCCAAGGAAGGAACGGCATAATCATTCGCA | |
| PL TEM1 Pos.457 | | ACATGATCCCCCATGGCGCGTGTATGCAGCTCCTCGAGTAGCCGCACGAACAACGCGACAAACCACCCGATCAAGGCGAGTT | |
| PL TEM1 Pos.631 | | GCAACTTTATCCGCCGCGCGTGTATGCAGCTCCTCGAGTAGCCGTCCACCCACAGAGGATGCCCTCGCAGAAGTGGTCCT | |
| PL VEB1 Pos.203 | | TCGGAAATTTCATAACGCGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCGGATAACGCTTGCGACCTATGTACAAAACGGCTAAAGCAA | |
| PL VEB1 Pos.851 | | TTTTGCAATGTCTGAAATAAGCGCGTGTATGCAGCTCCTCGAGTAGCCGCACCCGTCATGCGACAGGCAAATAGTAATTCCACGTTAT | |
| PL VIM1 Pos.430 | | GTTCCCCTCTGCCTCGCGCGTGTATGCAGCTCCTCGAGTAGCCGAACACTCGCTCTCGGCCGCCAAGATGCGTGGGAATCTC | |
| PL VIM1 Pos.743 | | CTGTGTGCTGGAGCAAGCGCGTGTATGCAGCTCCTCGAGTAGCCGAATAAAGTTGGGTGTCGGCTGGCGCTGCTTTGACAACGTTCG | |
| PL VIM2 Pos.432 | | TCGTTCCCCTCTACCGCGCGTGTATGCAGCTCCTCGAGTAGCCGGCGCCGGCCAATCCTACAGAGCATGAGTGCGTGGGAATC | |
| PL VIM2 Pos.687 | | GTGCTTCCGGGTAGTGCGCGTGTATGCAGCTCCTCGAGTAGCCGCCGTGCTTGAGGGCAGCAATGACCGGAATGACGAACT | |