**Detection of** ***Vibrio vulnificus* in seafood with a DNAzyme-based biosensor**

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**Table S1** High throughput sequencing of top 50

|  |  |  |
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| **No.** | **Sequence** | **Enrichment rate (%)** |
| 1 | GCAAAATCTCGGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0517 |
| 2 | CTTCTAGTCCTATTCACGACACCCCCCCGCGGTATCAAGG | 0.0271 |
| 3 | GTTTACCCCTGCAGCGAGAAGCGTGGTCACGCACAAGCAG | 0.0135 |
| 4 | CATGGTCCTATTGACTGCTCCAATGTAACCCGGCCAAGCAG | 0.0100 |
| 5 | GCAATAACTGCTGGCCACGGACGATTATCACTGCCAAGCAG | 0.0037 |
| 6 | CTTTAAGTTCTGCGCCATCACCCCCGCGCGACCTCAAGCAG | 0.0024 |
| 7 | GTTGACCCCGACAGCGACAAGGCTGCTCGCTCCAAAGCAG | 0.0020 |
| 8 | GGTTGACCCCCTACAGGACGGCGTCATGCTGATACAAGCAG | 0.0016 |
| 9 | GCACCGGTTAAAACCACGAACGCCGGCCCACATGCAAGCAG | 0.0015 |
| 10 | GTTGTCCCCTGCAGCTGGGAAGGTTTCACCACGTAAAGCAG | 0.0015 |
| 11 | GGACTAGCCTCCTGTGACGAGTCAATGGCCCGACCAAGCAG | 0.0011 |
| 12 | GGACTTCTATTGCCTGGCGCTTCCCGAGCCGGTCCAAGCAG | 0.0011 |
| 13 | GCAGCGACCTGACCCCCTACTTTGCCTCAGGGGCTAAGCG | 0.0009 |
| 14 | TTACATTCTTGTCCGCCACCCCTCCGCGACCTTCAAGCAG | 0.0009 |
| 15 | CTTAGGGTCCTGCTGACTTCGTTCCAGGGCGATCCAAGCAG | 0.0004 |
| 16 | GTTGACCACTTACCCCGGCAGAGGGACTTCCCTTTAAGCAG | 0.0004 |
| 17 | TGTTGACCCTGCGCAGCACGTGACCCCCTCTCTGCAAGCAG | 0.0003 |
| 18 | CACTGTCGTCTTCCACCGCCTATCCTCACCCTCTCAAGCAG | 0.0003 |
| 19 | TGTTGACCCCATGAGCCGGACACTTTCCCTCCGAAAAGCAAG | 0.0003 |
| 20 | GCAGCGACCCATGACCCCTTATGTTCACCACGGTGAAGCAG | 0.0002 |
| 21 | GCCACTACGACATCCTCCCAAGGCTTGTCAACGACAAGCAG | 0.0002 |
| 22 | GCCACGACGACAGCTACCATCCTAGGCCGGGGCCAAGCAG | 0.0002 |
| 23 | GCCGTACTTCCGTCGCCTGCGTTCCATGGCGATCCAAGCAG | 0.0002 |
| 24 | CAAAATCTCGATGCCACTGACGAATTTCCCATGCAAGCAG | 0.0002 |
| 25 | CGCTGTACCGTTGACAGACACCCCCCCGCGACGTCAAGCAG | 0.0002 |
| 26 | CTTCTAGTCCTATTCACGACACCCCCCGCGGTATCAAGG | 0.0001 |
| 27 | GCAAAATCTCGGCGCCACTGACGAATTTCCCATGCAAGCAG | 0.0001 |
| 28 | GCCTCTGACCATCCTCTAGCCGGTGACGACAGCTCCAG | 0.0001 |
| 29 | CGCGTAGCGTCTTTGACGCGCGATGATGCCCGCCCAAGCAG | 0.0001 |
| 30 | GCACGCTACCTGATGCCGCTCAATGTGGCCCGACCAAGCAG | 0.0001 |
| 31 | GTTTACCCCTGCAGCGAGAAGCGTGGTCACGCACAGGCAG | 0.0001 |
| 32 | GCAAAATCTCGGTGCCACTGACGAATTTCCCATGCAGGCAG | 0.0001 |
| 33 | GCAAAATCCCGGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0001 |
| 34 | CGTTGAGACCCTTCCGGGGCGTTGCGATCGATCCAAGCAG | 0.0001 |
| 35 | CCTCTAGTCCTATTCACGACACCCCCCCGCGGTATCAAGG | 0.0001 |
| 36 | GTTGACCCCTACAGCGGCGGGCGCTAAAGCCTACAAGCAG | 0.0001 |
| 37 | GCAAAATCTCGGTGCCACTGACGAATTTCCCATGCGAGCAG | 0.0001 |
| 38 | GCAAAATCTCGGTGCCACTGACGAATTTCCCACGCAAGCAG | 0.0001 |
| 39 | CGATGCGGTGACGACTTGGGTTCACGTTGCGTTCCAAGCAG | 0.0001 |
| 40 | GCAAAATCTCGGTGCCACTGGCGAATTTCCCATGCAAGCAG | 0.0001 |
| 41 | GCTCCGGGGGACCGCGACGTGACCGCTACTGCTTTAAGCAG | 0.0000 |
| 42 | ATGTTGACCCCGACAGCGAAGGGCCAGGCTCCTAAAAGCAG | 0.0000 |
| 43 | GCAAAGTCTCGGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0000 |
| 44 | GCAAAATCTTGGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0000 |
| 45 | GCAAAACCTCGGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0000 |
| 46 | GCAGCGACCATGACCCCACCCTGTTCGCACAAGGCAAGCAG | 0.0000 |
| 47 | AGCAAAATCTCGGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0000 |
| 48 | GCCACTACGACAGCCCGGCCCGCATGACTACCGCCAAGCAG | 0.0000 |
| 49 | GCAAAATCTCAGTGCCACTGACGAATTTCCCATGCAAGCAG | 0.0000 |
| 50 | CTTCTAGTCCTATTCACGGCACCCCCCCGCGGTATCAAGG | 0.0000 |