

Electrochemical impedance spectroscopy for the sensing of the kinetic parameters of engineered enzymes

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S1: The list of primers for side-specific mutagenesis.

XhoI hEKL F – GGGGCTCGAGAAAAGAGAGGCTGAAGCTATTGTTGGAG

NotI hEKL R - GGGGGCGGCCGCTAATGATGGTGATGGTGGTGCAAGA

Mut hEKL K99R F – CCTCATTATAACAGAAGAAGAAGAGATAATGATATTGCTATG

Mut hEKL K99R R – CATAGCAATATCATTATCTCTTCTTCTTCTGTTATAATGAGG

Mut hEKL N101S F –
CATTATAACAGAAGAAGAAAAGATAGTGATATTGCTATGATGCATTTGG

Mut hEKL N101S R –
CCAAATGCATCATAGCAATATCACTATCTTTTCTTCTTCTGTTATAATG

Mut hEKL N95E F - GTTATTAACCCTCATTATGAGAGAAGAAGAAAAGATAATG

Mut hEKL N95E R - CATTATCTTTTCTTCTTCTCATAATGAGGGTTAATAAC

Mut hEKL N95D F - GTTATTAACCCTCATTATGACAGAAGAAGAAAAGATAATG

Mut hEKL N95D R - CATTATCTTTTCTTCTTCTGTCATAATGAGGGTTAATAAC

Mut hEKL D100N F – CATTATAACAGAAGAAGAAAAAATAATGATATTGCTATGATGC

Mut hEKL D100N R - GCATCATAGCAATATCATTATTTTTCTTCTTCTGTTATAATG