Supplementary document: gene sequences.

The *ClyA* gene and the *RBD* gene are highlighted in red, the *spycatcher* and *spytag* gene are highlighted in green, the restriction sites are highlighted in yellow, the linker gene is highlighted in grey, the *His-tag* gene is highlighted in blue.

*ClyA-spycatcher:*

CATATGTCTGATAAAATTATTCATCTGACTGATGATTCTTTTGATACTGATGTACTTAAGGCAGATGGTGCAATCCTGGTTGATTTCTGGGCACACTGGTGCGGTCCGTGCAAAATGATCGCTCCGATTCTGAACATCGATCACAACCCGGGCACTGCGCCGAAATATGGCATCCGTGGTATCCCGACTCTGCTGCTGTTCAAAAACGGTGAAGTGGCGGCAACCAAAGTGGGTGCACTGTCTAAAGGTCAGTTGAAAGAGTTCCTCGACGCTAACCTGGCCGGCTCTGGATCCGGCGGCGGCAGCGGCGGCGGCAGCGATTATGATATTCCGACCACCGAAAACCTGTATTTTCAGGGCGCGATGGTGGATACCCTGAGCGGCCTGAGCAGCGAACAGGGCCAGAGCGGCGATATGACCATTGAAGAAGATAGCGCGACCCATATTAAATTTAGCAAACGCGATGAAGATGGCAAAGAACTGGCGGGCGCGACCATGGAACTGCGCGATAGCAGCGGCAAAACCATTAGCACCTGGATTAGCGATGGCCAGGTGAAAGATTTTTATCTGTATCCGGGCAAATATACCTTTGTGGAAACCGCGGCGCCGGATGGCTATGAAGTGGCGACCGCGATTACCTTTACCGTGAACGAACAGGGCCAGGTGACCGTGAACGGCAAAGCGACCAAAGGCGATGCGCATATTTAGGTCGAC

*RBD-spytag:*

GCGCATATTGTGATGGTGGATGCGTATAAACCGACCAAAGGCAGCGGCGGCAGCGGCGGCAGCGGCACCGGCAACATTACCAACCTGTGCCCGTTTGGCGAAGTGTTTAACGCGACCCGCTTTGCGAGCGTGTATGCGTGGAACCGCAAACGCATTAGCAACTGCGTGGCGGATTATAGCGTGCTGTATAACAGCGCGAGCTTTAGCACCTTTAAATGCTATGGCGTGAGCCCGACCAAACTGAACGATCTGTGCTTTACCAACGTGTATGCGGATAGCTTTGTGATTCGCGGCGATGAAGTGCGCCAGATTGCGCCGGGCCAGACCGGCAAAATTGCGGATTATAACTATAAACTGCCGGATGATTTTACCGGCTGCGTGATTGCGTGGAACAGCAACAACCTGGATAGCAAAGTGGGCGGCAACTATAACTATCTGTATCGCCTGTTTCGCAAAAGCAACCTGAAACCGTTTGAACGCGATATTAGCACCGAAATTTATCAGGCGGGCAGCACCCCGTGCAACGGCGTGGAAGGCTTTAACTGCTATTTTCCGCTGCAGAGCTATGGCTTTCAGCCGACCAACGGCGTGGGCTATCAGCCGTATCGCGTGGTGGTGCTGAGCTTTGAACTGCTGCATGCGCCGGCGACCGTGTGCGGCCCGAAAAAACATCATCATCATCATCATCATCATTAA