

S5 Table: Cloning scheme for non-reactive 4oq1 variants (GSGESG linker and MBP sequence from pMAL-c2 vector)

4oq1^T(N252A)	4oq1^C(K155A)	4oq1^C(E222Q)
PCR: 22 + 23 4oq1 ^T -GSGESG-MBP as template	PCR: 24 + 25 4oq1 ^C as template	PCR: 26 + 27 4oq1 ^C as template

Number of primers used correlate with the primer list in S1 Table.