

**S2 Table: Cloning scheme for mCherry-GSGSGSG-Catcher constructs**

<b>mCherry- -3kptC<sup>c</sup></b>	<b>mCherry --3kptN<sup>c</sup></b>	<b>mCherry--3phs<sup>c</sup></b>	<b>mCherry- -4oq1<sup>c</sup></b>
PCR1: 1 + 12; mCherry as template	PCR1: 1 + 3; mCherry as template	PCR1: 1 + 9; mCherry as template	PCR1: 1 + 6; mCherry as template
PCR2: 11 + 13; Synthetic gene as template	PCR2: 2 + 4; Synthetic gene as template	PCR2: 8 + 10; Synthetic gene as template	PCR2: 5 + 7; Synthetic gene as template
Overlap PCR: 1 +13 Products from PCR1 and PCR2 as templates	Overlap PCR: 1 + 4 Products from PCR1 and PCR2 as templates	Overlap PCR: 1 + 10 Products from PCR1 and PCR2 as templates	Overlap PCR: 1 + 7 Products from PCR1 and PCR2 as templates

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