

SUPPLEMENTAL MATERIAL

TABLE. S1 pM3CRYY or pET-28a-transformed *E. coli* BL21 are induced at different conditions with IPTG concentration, temperature and induction hours variables.

Condition s	Plasmid of Transformed <i>E. coli</i> BL21	IPTG concentration (mM)	Temperature (°C)	Time of induction (hours)
1	pM3CRYY	0mM IPTG	37 °C	1 hr
2	pM3CRYY	1mM IPTG	37 °C	1 hr
3	pM3CRYY	0mM IPTG	37 °C	2 hr
4	pM3CRYY	1mM IPTG	37 °C	2 hr
5	pM3CRYY	0mM IPTG	20 °C	1 hr
6	pM3CRYY	1mM IPTG	20 °C	1 hr
7	pM3CRYY	0mM IPTG	20 °C	2 hr
8	pM3CRYY	1mM IPTG	20 °C	2 hr
9 (control)	pET-28a	1mM IPTG	37 °C	1 hr
10 (control)	pET-28a	1mM IPTG	37 °C	2 hr
11 (control)	pET-28a	1mM IPTG	20 °C	2 hr

TABLE. S2 *E. coli* BL21 transformed with pM3CRYY are 2hr-induced at different IPTG concentration at 37 °C

Condition s	Plasmid of Transformed <i>E. coli</i> BL21	IPTG concentration (mM)	Temperature (°C)	Time of induction (hours)
1	pM3CRYY	0.1mM IPTG	37 °C	2 hr
2	pM3CRYY	0.5 mM IPTG	37 °C	2 hr
3	pM3CRYY	1 mM IPTG	37 °C	2 hr
4	pM3CRYY	10 mM IPTG	37 °C	2 hr
5	pM3CRYY	0mM IPTG	37 °C	2 hr