Table S1. The levels and variables in the D-optimal design experiments

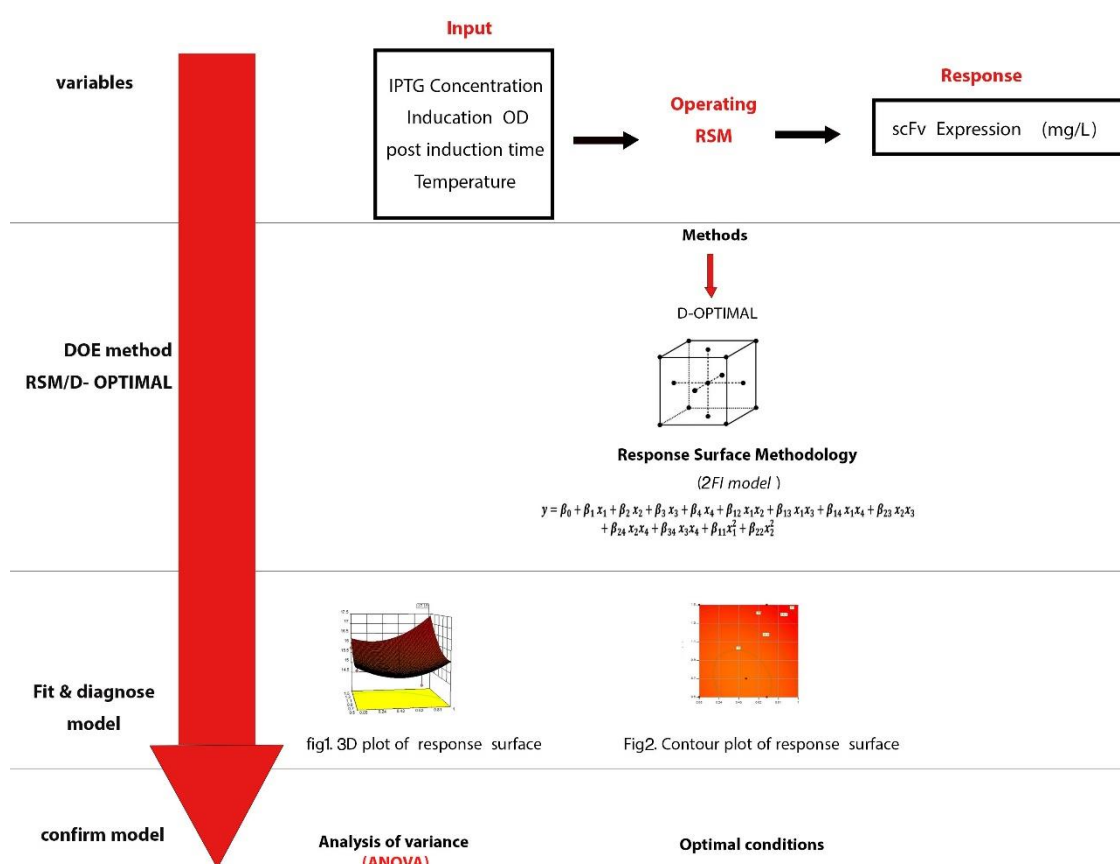| Symbols	Variables					
A	IPTG concentration (mM)	0.05	0.1	0.5	0.7	1
B	OD_{600} at induction	0.5	0.7	0.9	1.5	
C	Induction time (h)	4	8	12	16	24
D	Temperature (°C)	18	25	30		

Figure S1. Schematic illustration of the methodology applied in RSM analysis. The sequential stages include the screening of independent variables, selection of the experimental design, implementation of experiments to obtain results, evaluation of the fitted model, confirming the significance of the model using analysis of variance (ANOVA), and determination of the optimum conditions.