1	Glu $\longrightarrow \varnothing$
2	Gal $\longrightarrow \varnothing$
3	Glu_Sensor $\longrightarrow \varnothing$
4	Gal $\longrightarrow$ Glu_Sensor + Gal
5	Gal_Sensor $\longrightarrow \varnothing$
6	Gal_Sensor + Gal $\rightleftharpoons$ Gal_Activator
7	Glu $\longrightarrow$ Gal_Sensor + Glu
8	Gal_Activator $\longrightarrow$ Glu_To_Gal + Gal_Activator
9	Glu_To_Gal $\longrightarrow \varnothing$
10	Gal_To_Glu $\longrightarrow \varnothing$
11	Glu_Activator $\longrightarrow$ Gal_To_Glu + Glu_Activator
12	Glu_Sensor + Glu $\rightleftharpoons$ Glu_Activator