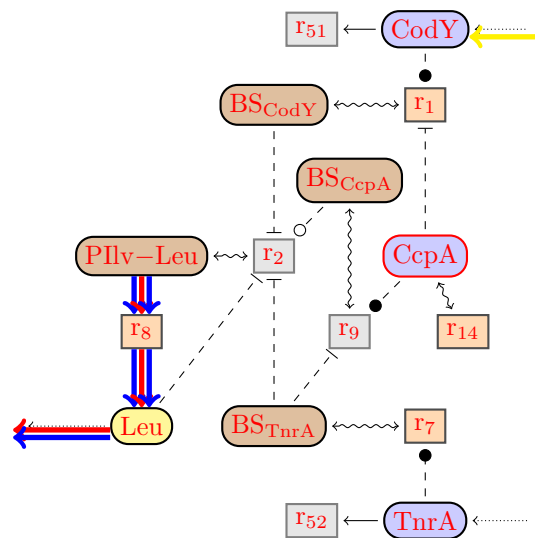


## 1.1 Parameters

*Reaction Network.* See file: Network/Pilv-Leu.xml

See Figure 1.



**Fig. 1.** The PIlv-Leu/Test.

Role	Short name	Chemical Species
Metabolites	<b>Leu</b>	Leucine
Proteines	<b>CcpA</b>	Carbon catabolite control protein A
	<b>CodY</b>	Transcriptional pleiotropic regulator
Actors	<b>TnrA</b>	Nitrogen pleiotropic transcriptional regulator
	<b>BS<sub>CodY</sub></b>	Activity of <b>CodY</b> binding to promotor <b>Pilv–Leu</b>
	<b>Pilv–Leu</b>	Activity of promoter of starting network producing of <b>Leu</b>
	<b>BS<sub>TnrA</sub></b>	Activity of <b>TnrA</b> binding to promotor <b>Pilv–Leu</b>
	<b>BS<sub>CcpA</sub></b>	Activity of <b>CcpA</b> binding to promotor <b>Pilv–Leu</b> without <b>BS<sub>TnrA</sub></b> loop

**Fig. 2.** Molecules of PIlv-Leu/Test.

Name	Function
r <sub>1</sub>	bind <b>CodY</b> to <b>Pilv-Leu</b> for inhibition
r <sub>1'</sub>	degradation of <b>BS<sub>CodY</sub></b>
r <sub>2</sub>	activate <b>Pilv-Leu</b> promoter
r <sub>1'</sub>	degradation of <b>Pilv-Leu</b>
r <sub>7</sub>	bind <b>TnrA</b> to <b>Pilv-Leu</b> promoter for inhibition
r <sub>1'</sub>	degradation of <b>BS<sub>TnrA</sub></b>
r <sub>9</sub>	bind <b>CcpA</b> to <b>Pilv-Leu</b> promoter without <b>BS<sub>TnrA</sub></b> loop
r <sub>1'</sub>	degradation of <b>BS<sub>CcpA</sub></b>
r <sub>51</sub>	<b>CodY</b> deactivation
r <sub>52</sub>	<b>TnrA</b> deactivation
r <sub>14</sub>	expressions of <b>CcpA</b>
r <sub>1'</sub>	degradation of <b>CcpA</b>
r <sub>8</sub>	<b>Pilv-Leu</b> expression followed by <b>Leu</b> production

**Fig. 3.** Reactions of PIlv-Leu/Test

## 1.2 What Else

*Comments to be treated*