

Hierarchical transition graph
chordin_KO mutant, ventral region

Irreversible component 1

Smad2_3_4 = 0
Alk4_5_7 = *
Smad1_4_5_8 = 0
Alk1_2_3_6 = * 288 states

Smad2_3_4
activation

Smad1_4_5_8
activation

Irreversible component 2

Smad2_3_4 = 1
Alk4_5_7 = 1
Smad1_4_5_8 = 0 27647
Alk1_2_3_6 = * states

Ventral stable state

Irreversible component 3

Smad2_3_4 = 0
Alk4_5_7 = *
Smad1_4_5_8 = 1:2 4703
Alk1_2_3_6 = 1 states

Dorsal stable state