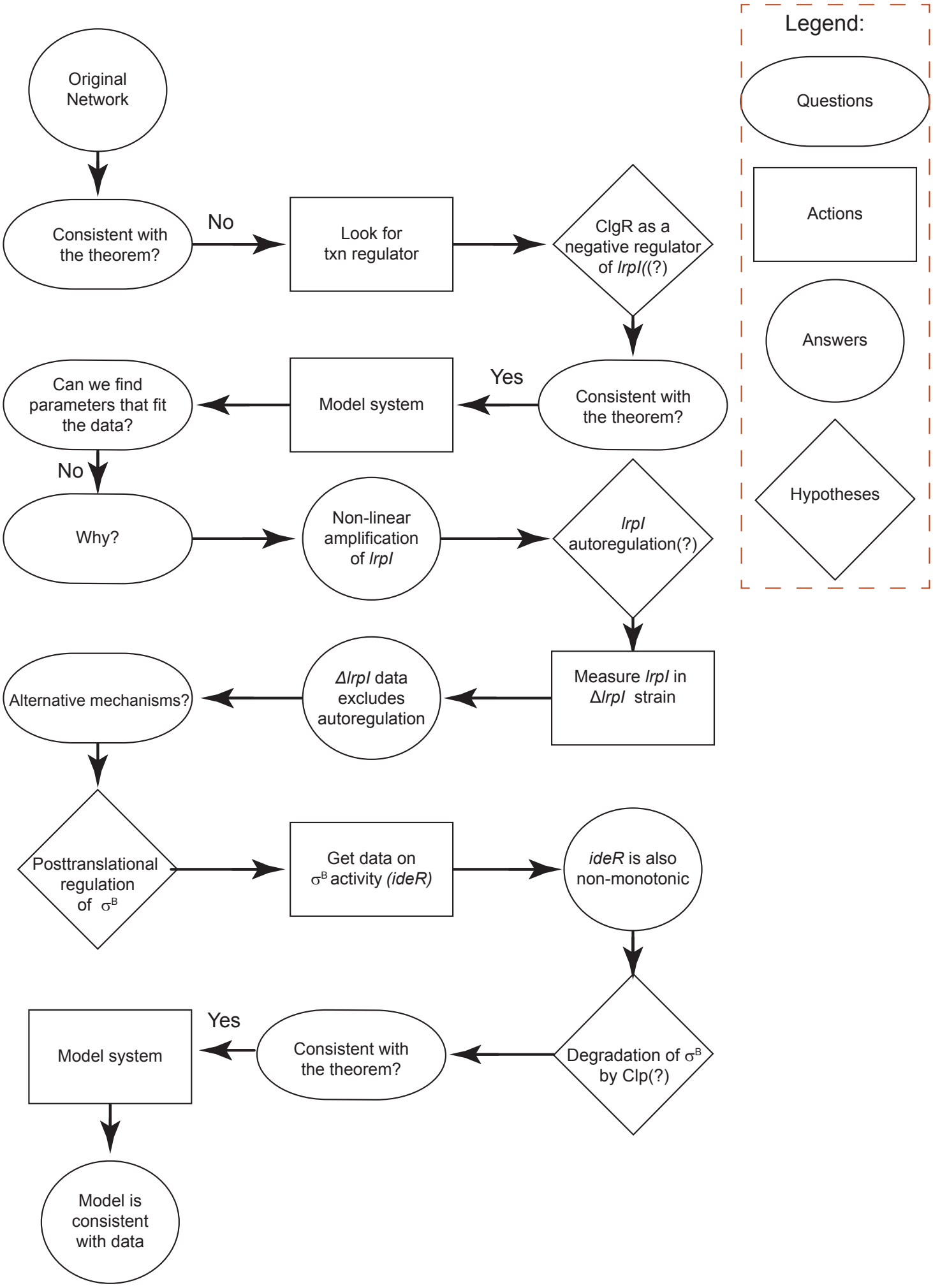
Legend:
Questions
Actions
Answers
Hypotheses
Original Network
Consistent with the theorem?
No
Look for txn regulator
ClgR as a negative regulator of lrpI((?)
Consistent with the theorem?
Yes
Model system
Can we find parameters that fit the data?
No
Why?
Non-linear amplification of lrpI
lrpI autoregulation(?)
Measure lrpI in ΔlrpI strain
ΔlrpI data excludes autoregulation
Alternative mechanisms?
Posttranslational regulation of σB
Get data on σB activity (ideR)
ideR is also non-monotonic
Degradation of σB by Clp(?)
Consistent with the theorem?
Yes
Model system
Model is consistent with data