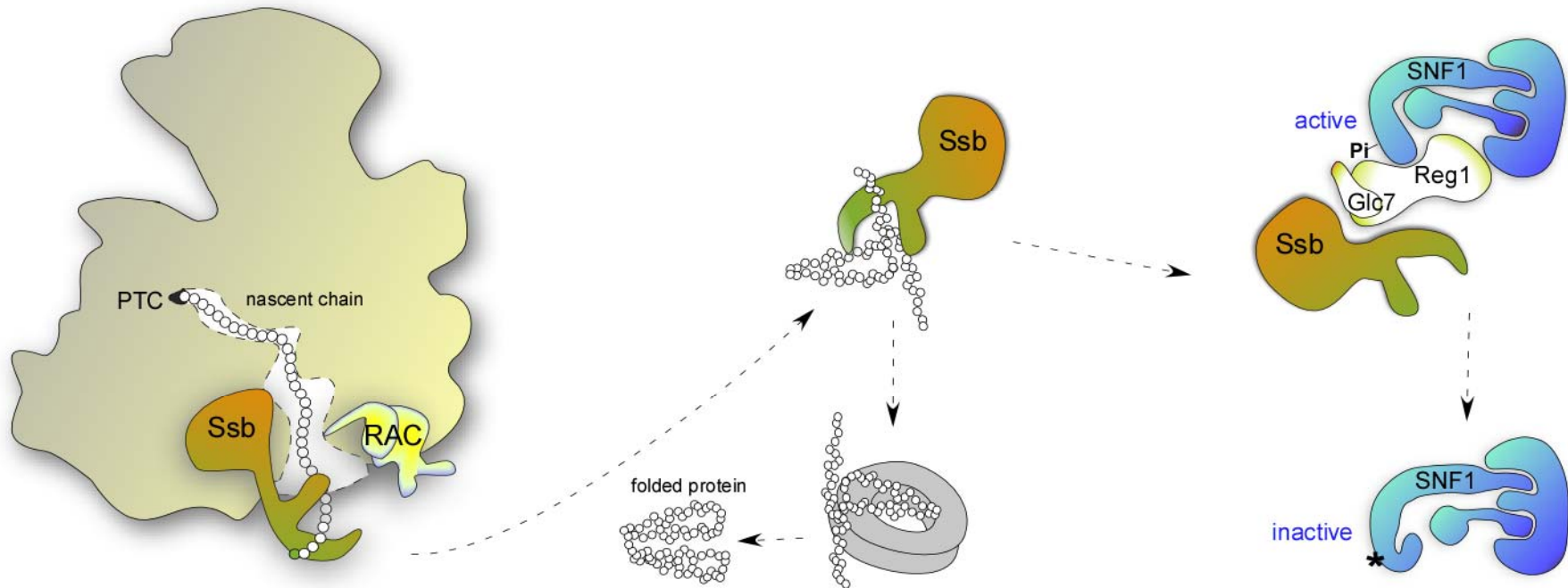


The function of Ssb

What are the *in vivo* roles of the chaperone Ssb on the ribosome and in the cytosol ?



Few basics and open questions ...

Ssb is a chaperone that interacts with nascent polypeptides and assists their *de novo* folding. So far, however, details on the **Ssb/RAC**-mediated folding mechanism have not been established. Recently it became clear that **Ssb** has additional functions not directly related to protein folding. One function is **Ssb's** involvement in the regulation of glucose-sensing via the **SNF1** kinase network.

SNF1, the homolog of mammalian AMP-activated protein kinase, is essential for the expression of glucose-repressed genes. When glucose is available, hyperphosphorylated **SNF1** is rendered inactive by the type 1 protein phosphatase **Glc7**. This process requires the regulatory subunit **Reg1** and, via a so far unknown mechanism, also **Ssb**.