

Signaling molecule activates receptor

ATP drops a phosphate on both receptor legs

G-protein (with GDP in tow) docks with the phosphate at the receptor leg

G-protein releases GDP

GTP docks with the open socket of G-protein (where GDP was)

Once bound with GTP, g-protein 'undocks' from receptor phosphate and heads out

ATP comes and phosphates the G-protein/GTP (This is as far as we go)

From there the G-protein activates Kinase

Kinase activates T-Reg

T-reg to nucleus

From there RNA/DNA replication (or something like that)

You now know as much as I do.