Description of the Reaction	Reaction Schemes	Reaction Number
Rac/Rho activation and inactivation	$RhoGDP \underset{RhoGAP}{\overset{RhoGEF}{\rightleftharpoons}} RhoGTP$	1
	$RacGDP \underset{RacGAP}{\overset{RacGEF}{\rightleftharpoons}} RacGTP$	2
PAK activation and inactivation	$RacGTP + PAK \rightleftharpoons PAK\text{-}RacGTP$	3
Paxillin phosphorylation	$Pax \underset{PP2A}{\overset{PAK-RacGTP}{\rightleftharpoons}} Pax_p$ $Pax \underset{PP2A}{\overset{Pax_p\text{-}GIT\text{-}PIX\text{-}PAK\text{-}RacGTP}{\rightleftharpoons}} Pax_p$	4
Assembly of the GIT-PIX-PAK complex	$GIT + PIX \rightleftharpoons GIT\text{-}PIX$	5
	$GIT\text{-}PIX + PAK \rightleftharpoons GIT\text{-}PIX\text{-}PAK$	6
	$PIX + PAK \rightleftharpoons PIX\text{-}PAK$	7
	$GIT + PIX\text{-}PAK \rightleftharpoons GIT\text{-}PIX\text{-}PAK$	8
Formation of the PIX-PAK-RacGTP complex	$PIX\text{-}PAK + RacGTP \rightleftharpoons PIX\text{-}PAK\text{-}RacGTP$	9
	$PIX + PAK\text{-}RacGTP \rightleftharpoons PIX\text{-}PAK\text{-}RacGTP$	10
Paxillin-GIT-PIX-PAK binding	$Pax_p + GIT\text{-}PIX\text{-}PAK \rightleftharpoons Pax_p\text{-}GIT\text{-}PIX\text{-}PAK$	11
Activation of Pax_p-bound PAK	$Pax_p\text{-}GIT\text{-}PIX\text{-}PAK + RacGTP \rightleftharpoons Pax_p\text{-}GIT\text{-}PIX\text{-}PAK\text{-}RacGTP$	12