Figure 11, Supplemental Figure 1

	Mutation or Variation	Effect on Activity	Effect on Multimerization
	deletion of dimerization arm: Δ -arm	strong reduction of autophosphorylation in Tyr 992 and Tyr 1173	increases EGF-independent dimerization but has little effect on EGF-induced multimerization
Tyr 992 (proximal)			modest effect on EGF-induced dimerization
	replacement of EGF by TGF-α		no reduction in EGF-induced multimerization
	EGF concentration increased from 15 nM to 2 μM		no reduction in EGF-induced multimerization
	mutations in the proposed Domain IV multimerization interface:	reduction in Tyr 992 and Tyr 1173 phosphorylation	decreases EGF-dependent multimerization
	IIIV/KKRE VEN/ERR TN/RR	strong reduction of PI3K phosphorylation	no reduction in EGF-induced dimerization
	IIN/III	no effect on ERK phosphorylation	
	mutation of the autoinhibitory tether on Domain IV: Δ -tether		increases EGF-independent dimerization
(proximal)	mutations in the transmembrane helix (small residues in the N- and	modest effect on Tyr 1173 stronger effect on Tyr 992	strong reduction of EGF-dependent multimerization
Tyr 1173 (distal)	C-terminal interfaces replaced by isoleucine)	strong reduction of PI3K phosphorylation	no reduction in EGF-induced dimerization
		no effect on ERK phosphorylation	
	receiver-impaired (1682Q)	tail can only be phosphorylated within an asymmetric dimer	reduces EGF-dependent multimerization and EGF-independent dimerization when combined with V924R
	kinase-dead (D813N)	tail can be phosphorylated only within an asymmetric dimer	no effect on EGF-dependent multimerization
	activator-impaired (V924R)		reduces EGF-dependent multimerization and EGF-independent dimerization when combined with I682Q