

Supplementary Table1: Summary of the interaction partners and their average protein ratios from at least two pull-down experiments.

Phosphotyrosine	interaction partner	Ratio \pm s.d.	Swiss-Prot Number
EGFR			
727	Transforming protein Shc	7.5 \pm 1.0	P29353
891	SH3 domain-binding glutamic acid-rich-like protein	13.7 \pm 7.6	Q9H299
978	STAT5	9.7 \pm 2.9	P516981
	Protein tyrosine phosphatase 2C	3.1 \pm 1.4	Q06124
998	STAT5	8.4 \pm 3.0	P516981
	Adapter molecule Crk	4.9 \pm n.a.	P46108
	Protein tyrosine phosphatase 2C	3.8 \pm n.a.	Q06124
	Transforming protein Shc	6.7 \pm 1.0	P29353
	Tyrosine protein kinase Csk	3.1 \pm n.a.	P41240
1016	Protein tyrosine phosphatase 2C	3.6 \pm 1.5	Q06124
1069	Signal transduction protein Cbl-B	19.3 \pm 8.5	P22681
1092	Grb2	10.3 \pm 2.8	P29354
1110	Grb2	7.7 \pm 3.0	P29354
	Transforming protein Shc	6.0 \pm 2.8	P29353
1125	Grb2	13.3 \pm 7.4	P29354
1138	Grb2	10.5 \pm 3.5	P29354
	Transforming protein Shc	5.7 \pm 1.9	P29353
1172	Grb2	13.5 \pm 7.8	P29354
	Transforming protein Shc	12.6 \pm 2.3	P29353
1197	Grb2	9.7 \pm 4.8	P29354
	Transforming protein Shc	7.7 \pm 3.0	P29353

Phosphotyrosine	interaction partner	Ratio \pm s.d.	Swiss-Prot Number
ErbB2			
735	Transforming protein Shc	6.8 \pm 1.5	P29353
923	SH3 domain-binding glutamic acid-rich-like protein	5.5 \pm 1.2	Q9H299
1005	Transforming protein Shc	5.6 \pm 2.1	P29353
1023	Protein tyrosine phosphatase 2C	4.3 \pm n.a.	Q06124
1139	Grb2	6.7 \pm 3.7	P29354
1196	Transforming protein Shc	7.2 \pm 3.1	P29353
	SH3 domain-binding glutamic acid-rich-like protein	4.1 \pm n.a.	Q9H299
1222	Transforming protein Shc	5.4 \pm 2.3	P29353
1248	Transforming protein Shc	6.7 \pm 1.8	P29353

Phosphotyrosine	interaction partner	Ratio \pm s.d.	Swiss-Prot Number
ErbB3			
1054	Phosphatidylinositol 3-kinase regulatory beta subunit	11.4 \pm 5.4	O00459
1197	Phosphatidylinositol 3-kinase regulatory beta subunit	4.7 \pm 2.3	O00459
1199	Grb2	13 \pm 4.0	P29354
	Tyrosine protein kinase Csk	6.7 \pm 2.3	P41240
1222	Phosphatidylinositol 3-kinase regulatory beta subunit	30.0 \pm 4.2	O00459
1260	Phosphatidylinositol 3-kinase regulatory beta subunit	6.5 \pm 2.8	O00459
1262	Grb2	8.3 \pm 3.1	P29354
1276	Phosphatidylinositol 3-kinase regulatory beta subunit	3.8 \pm 1.9	O00459
1289	Phosphatidylinositol 3-kinase regulatory beta subunit	20.0 \pm 11.3	O00459
1328	Transforming protein Shc	5.8 \pm 2.3	P29353

Phosphotyrosine	interaction partner	Ratio \pm s.d.	Swiss-Prot Number
ErbB4			
733	Transforming protein Shc	8.3 \pm 2.3	P29353
984	STAT5	9.3 \pm 2.8	P516981
	Protein tyrosine phosphatase 2C	3.9 \pm 2.4	Q06124
1022	Adapter molecule Crk	12.1 \pm 3.2	P46108
1056	Phosphatidylinositol 3-kinase regulatory beta subunit	30 \pm n.a.	O00459
1162	Grb2	5.8 \pm 2.7	P29354
1188	Grb2	30 \pm n.a.	P29354
	Transforming protein Shc	5.3 \pm 1.6	P29353
1202	Grb2	6.3 \pm 1.0	P29354
1208	Grb2	3.8 \pm 2.1	P29354
1221	Grb2	4.8 \pm 2.3	P29354
1242	Grb2	8.2 \pm 1.7	P29354
	Transforming protein Shc	5.6 \pm n.a.	P29353
1268	Grb2	3.5 \pm 1.5	P29354
	Nck adapter protein 2	5.0 \pm 2.2	O43639
1284	Transforming protein Shc	4.1 \pm 1.4	P29353