PODXL2 maintains cellular stemness and promotes breast cancer development through the Rac1/Akt pathway

Supplementary data:



Supplementary Figure 1. MetaCore pathway analysis of the coexpression gene network of PODXL2 in breast cancer patients. Downstream pathway analyses based on the top quartile genes in Figure 4 revealed that "signal transduction_angiotensin II/ AGTR1 signaling via p38, ERK, and PI3K". Cell responses are shown in the lower part, including cell proliferation and migration.

Database	Tissue origin	<i>p</i> value	Fold change	Reference
Curtis C, et al.	Invasive Ductal Breast	1.07E-78	1.992	Nature 2012; 486(7403):
Breast	Carcinoma vs. Normal			346-352.
	Invasive Lobular Breast	4.18E-20	1.678	
	Carcinoma vs. Normal			
	Medullary Breast	9.36E-8	2.174	
	Carcinoma vs. Normal			
	Invasive Breast	8.62E-5	1.633	
	Carcinoma vs. Normal			
TCGA	Invasive Ductal Breast	6.67E-21	2.114	Nature 2012; 490(7418):
Breast	Carcinoma vs. Normal			61-70.
(RNA)	Invasive Breast	1.45E-12	1.916	
	Carcinoma vs. Normal			
TCGA	Invasive Ductal Breast	6.97E-7	1.027	
Breast	Carcinoma vs. Normal			
(DNA)	Invasive Ductal and	0.007	1.055	
	Lobular Carcinoma vs.			
	Normal			
	Medullary Breast	0.033	1.072	
	Carcinoma vs. Normal			
	Ductal Breast	0.094	1.089	
	Carcinoma vs. Normal			
	Invasive Ductal and	0.280	1.056	
	Invasive Lobular Breast			
	Carcinoma vs. Normal			
	Mixed Lobular and	0.326	1.015	
	Ductal Breast			
	Carcinoma vs. Normal			
	Male Breast Carcinoma	0.414	1.011	
	vs. Normal			
	Invasive Lobular Breast	0.501	-1.000	
	Carcinoma vs. Normal			
	Mucinous Breast	0.531	-1.002	
	Carcinoma vs. Normal			
	Invasive Papillary	0.795	-1.028	
	Breast Carcinoma vs.			

Supplementary Table 1. PODXL2 mRNA expression in breast cancer relative to normal tissues or other subtype of breast cancer from the Oncomine database.

	Normal			
Turashvili G, et al.	Invasive Lobular Breast	0.005	2.410	BMC Cancer 2007; 7: 55.
Breast	Carcinoma vs. Normal			
	Invasive Ductal Breast	0.397	1.144	
	Carcinoma vs. Normal			
Richardson AL, et al.	Ductal Breast	0.027	1.285	Cancer Cell 2006; 9(2):
Breast	Carcinoma vs. Normal			121-132.
Ma XJ, et al.	Invasive Ductal Breast	0.032	1.110	Breast Cancer Res 2009;
Breast	Carcinoma Stroma vs.			11(1): R7
	Normal			
	Invasive Ductal Breast	0.175	1.059	
	Carcinoma Epithelia vs.			
	Normal			
	Ductal Breast	0.330	1.027	
	Carcinoma in Situ			
	Epithelia vs. Normal			
	Ductal Breast	0.365	1.014	
	Carcinoma in Situ			
	Stroma vs. Normal			
Radvanyi L, et al.	Ductal Breast	0.056	3.560	Proc Natl Acad Sci U S A
Breast	Carcinoma in Situ vs.			2005; 102(31): 11005-
	Normal			11010.
	Invasive Ductal Breast	0.220	1.599	
	Carcinoma vs. Normal			
	Invasive Lobular Breast	0.322	1.315	
	Carcinoma vs. Normal			
	Invasive Mixed Breast	0.355	1.266	
	Carcinoma vs. Normal			
Karnoub AE, et al.	Invasive Ductal Breast	0.186	1.147	Nature 2007; 449(7162):
Breast	Carcinoma Stroma vs.			557-63.
	Normal			
Glück S, et al.	Invasive Breast	0.250	1.094	Breast Cancer Res Treat
Breast	Carcinoma vs. Normal			2012; 132(3): 781-91.
Finak G, et al.	Invasive Breast	1.000	-2.887	Nat Med 2008; 14(5): 518-
Breast	Carcinoma Stroma vs.			27.
	Normal			