

Supplemental Table 1: Top 10 GSEA pathways from C2-curated collection for rank-order genes negatively correlated with Par-4 expression.

GSEA pathway	p-value	adj. p-value	ES	NES
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN	0.0020	0.0517	-0.5312	-2.8845
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION	0.0019	0.0517	-0.5342	-2.2623
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	0.0019	0.0517	-0.5746	-2.2614
REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFATE_METABOLISM	0.0019	0.0517	-0.5809	-2.2347
NIKOLSKY_BREAST_CANCER_1Q21_AMPLICON	0.0019	0.0517	-0.6122	-2.2122
REACTOME_COLLAGEN_FORMATION	0.0019	0.0517	-0.5489	-2.1881
REACTOME_GLYCOSAMINOGLYCAN_METABOLISM	0.0019	0.0517	-0.4789	-2.1758
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP	0.0020	0.0517	-0.4159	-2.1624
REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_MODIFICATION	0.0019	0.0517	-0.6071	-2.1379
GU_PDEF_TARGETS_UP	0.0019	0.0517	-0.4890	-2.0843