

A

C2 gene set	Annotation	# genes / gene set size	# sign. genes up / # genes up	# sign. genes down / # genes down	Adj. p-value	JG score
Doane breast cancer classes up	Genes up-regulated in ER-/PR-breast tumors with molecular similarity to ER+, relative to the rest of the ER-/PR- samples	64/72	58/63	0/1	4e-19	58.6
Smid breast cancer ERBB2 up	Genes up-regulated in HER2E tumors (positive control)	112/147	88/110	0/2	2e-12	53.8
Doane breast cancer ESR1 dn	Genes down-regulated in ER+ vs. ER- breast tumors	44/48	2/4	35/40	5e-12	-42.5
Farmer breast cancer cluster 6	Selected luminal genes	16/16	13/16	0/0	4e-11	27.6
Smid breast cancer relapse in brain up	Genes up-regulated in brain relapse of breast cancer, relative to other sites	36/39	0/2	24/34	6e-8	-29.7
Farmer breast cancer cluster 7	Selected apocrine/luminal genes	18/20	15/18	0/0	2e-7	22.3
Doane breast cancer classes dn	Genes down-regulated in ER-/PR-breast tumors with molecular similarity to ER+, relative to the rest of the ER-/PR- samples	31/34	0/1	20/30	4e-7	-23.5
Landemaine lung metastasis	Genes up-regulated in lung relapse of breast cancer, relative to other sites	21/21	1/2	15/19	1e-6	-24.0
Yang breast cancer ESR1 dn	Genes down-regulated in ER+ vs. ER- breast tumors	25/25	1/2	15/23	2e-6	-21.2
Lien breast carcinoma metaplastic vs ductal up	Genes up-regulated in metaplastic vs. ductal breast carcinoma	70/83	1/11	37/59	5e-6	-30.0

