

Table S1. The seven data sets used in method evaluation.

Name	Publication	Number of samples in each class
NF-kB	Tian et al. 2005a [26]	Wildtype: 12 samples Mutant: 12 samples
Prostate cancer	Lapointe et al. 2004 [27]	Normal: 41 samples Cancer: 62 samples
Leukemia	Yeoh et al. 2002 [28]	TEL-AML1: 79 samples HH: 64 samples
Breast_Netherland	van de Vijver et al. 2002 [29]	Metastatic: 78 samples Non-metastatic: 217 samples
Breast_USA	Wang et al. 2005 [5]	Metastatic: 106 samples Non-metastatic: 180 samples
Lung_Boston	Subramanian et al. 2005 [30]	Poor prognosis: 31 samples Good prognosis: 31 samples
Lung_Michigan	Subramanian et al. 2005 [31]	Poor prognosis: 24 samples Good prognosis: 62 samples