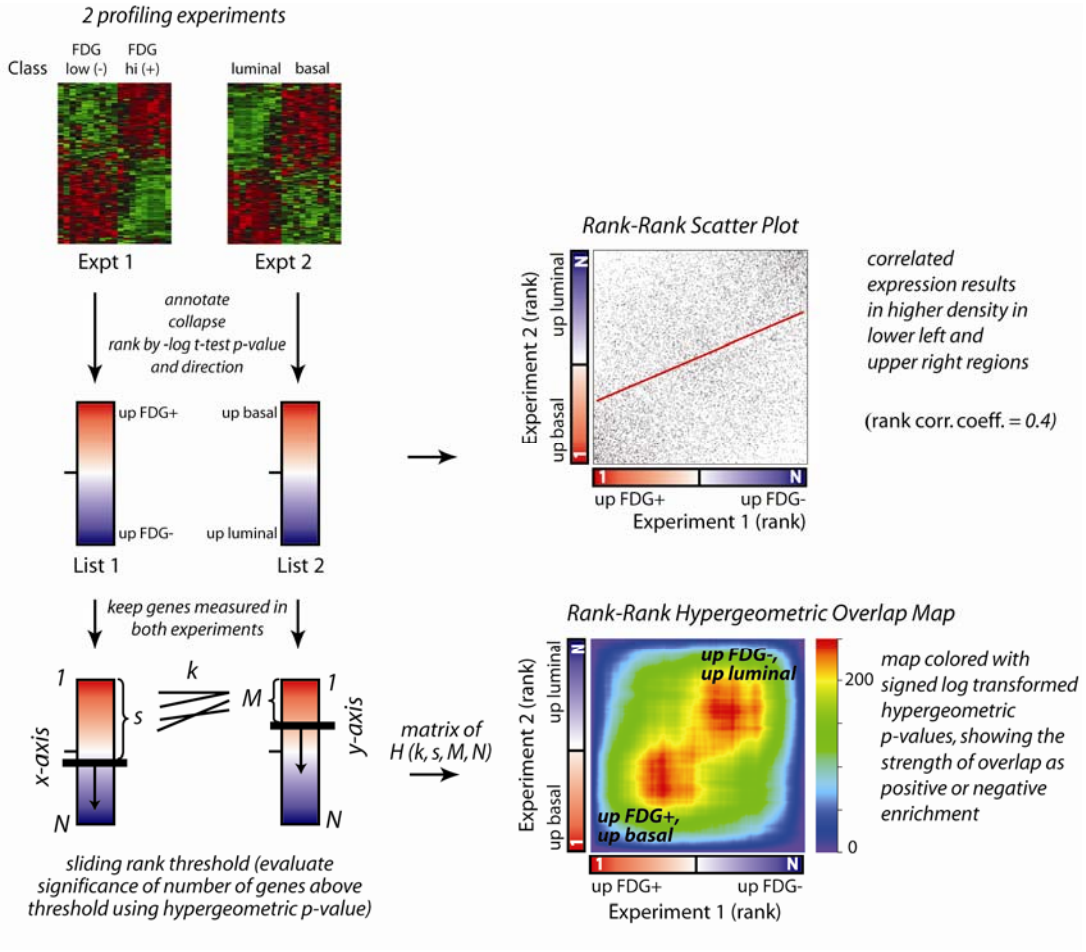
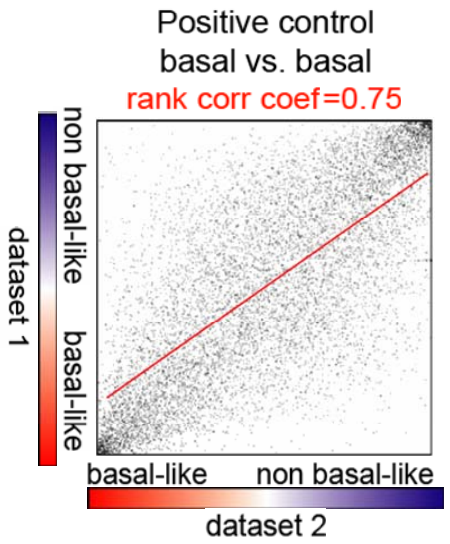
FIGURE S2

A


2 profiling experiments
Class
FDG low (-)
FDG hi (+)
luminal
basal
Expt 1
Expt 2
annotate
collapse
rank by -log t-test p-value
and direction
up FDG+
up FDG-
up basal
up luminal
List 1
List 2
keep genes measured in
both experiments
1
k
s
M
1
x-axis
y-axis
N
N
sliding rank threshold (evaluate
significance of number of genes above
threshold using hypergeometric p-value)
matrix of
H (k, s, M, N)
Rank-Rank Scatter Plot
Experiment 2 (rank)
up luminal
up basal
N
1
1
N
up FDG+
up FDG-
Experiment 1 (rank)
correlated
expression results
in higher density in
lower left and
upper right regions
(rank corr. coeff. = 0.4)
Rank-Rank Hypergeometric Overlap Map
up FDG-,
up luminal
up FDG+,
up basal
200
0
map colored with
signed log transformed
hypergeometric
p-values, showing the
strength of overlap as
positive or negative
enrichment

B


Positive control
basal vs. basal
rank corr coef=0.75
non basal-like
basal-like
dataset 1
basal-like
non basal-like
dataset 2