**PAM50 LumA: N = 721 PAM50 LumB: N = 492** IKK-beta/IKK2|ILMN\_2172588 (ER binding) IKK-beta/IKK2|ILMN\_2172588 (ER binding) [<=60] p = 0.64714No detectable trend: [<=60] p = 0.97672No detectable trend: 16 16 [>60] p = 0.54824[>60] p = 0.93818|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.65287[AII] p = 0.420054 4 Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240 **PAM50 Basal: N = 331** IKK-beta/IKK2|ILMN\_2172588 (ER binding) IKK-beta/IKK2|ILMN\_2172588 (ER binding) [<=60] p = 0.7819No detectable trend: [<=60] p = 0.33627No detectable trend: 16 16 [>60] p = 0.71321 |FC|<4 or adjPval>0.01 [>60] p = 0.97965|FC|<4 or adjPval>0.01 [AII] p = 0.59759[AII] p = 0.68064 4 Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9

Raw Expression (4, 16)

Raw Expression (4, 16)

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

## PAM50 Normal: N = 202 IKK-beta/IKK2|ILMN\_2172588 (ER binding)

