**PAM50 LumA: N = 721 PAM50 LumB: N = 492** IKK-alpha/IKK1|ILMN\_1677041 (non-ER binding IKK-alpha/IKK1|ILMN\_1677041 (non-ER binding [<=60] p = 0.45842No detectable trend: [<=60] p = 0.78705No detectable trend: 16 16 [>60] p = 0.10267 |FC|<1.25 or adjPval>0.01 [>60] p = 0.55835 |FC|<1.25 or adjPval>0.01 [AII] p = 0.08703[AII] p = 0.788824 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω  $\infty$ 9 9 20 40 60 80 20 40 60 80 100 100 Age at diagnosis Age at diagnosis PAM50 Her2: N = 240 **PAM50 Basal: N = 331** IKK-alpha/IKK1|ILMN\_1677041 (non-ER binding IKK-alpha/IKK1|ILMN\_1677041 (non-ER binding [<=60] p = 0.76964No detectable trend: [<=60] p = 0.56757No detectable trend: 16 9 [>60] p = 0.87152|FC|<1.25 or adjPval>0.01 [>60] p = 0.83166 |FC|<1.25 or adjPval>0.01 [All] p = 0.53494[AII] p = 0.97144 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

## PAM50 Normal: N = 202 IKK-alpha/IKK1|ILMN\_1677041 (non-ER binding

