**PAM50 LumA: N = 721 PAM50 LumB: N = 492** PCGF4/BMI1|ILMN\_1700915 (non-ER binding) PCGF4/BMI1|ILMN\_1700915 (non-ER binding) [<=60] p = 0.95168No detectable trend: [<=60] p = 0.71879No detectable trend: 16 16 [>60] p = 0.74549 [>60] p = 0.90298|FC|<2 or adjPval>0.01 |FC|<2 or adjPval>0.01 [AII] p = 0.022536[AII] p = 0.431574 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 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** PCGF4/BMI1|ILMN\_1700915 (non-ER binding) PCGF4/BMI1|ILMN\_1700915 (non-ER binding) [<=60] p = 0.017889[<=60] p = 0.00032374No detectable trend: No detectable trend: 16 16 [>60] p = 0.86854|FC|<2 or adjPval>0.01 [>60] p = 0.60986 |FC|<2 or adjPval>0.01 [AII] p = 0.096838[AII] p = 0.00520714 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10  $\infty$ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis

## PAM50 Normal: N = 202 PCGF4/BMI1|ILMN\_1700915 (non-ER binding)

