**PAM50 LumA: N = 721 PAM50 LumB: N = 492** Ret|ILMN\_1706301 Ret|ILMN\_1706301 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.75795Age-dependent trend: [<=60] p = 0.4323No detectable trend: 16 16 [>60] p = 0.00018324 [>60] p = 0.39771|FC|>1.25 and adjPval<0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00015375[AII] p = 0.581124 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 Her2: N = 240**PAM50** Basal: **N** = 331 Ret|ILMN\_1706301 Ret|ILMN\_1706301 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.68018No detectable trend: [<=60] p = 0.29662No detectable trend: 16 9 [>60] p = 0.67721 [>60] p = 0.34168|FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [All] p = 0.84623[AII] p = 0.102634 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10

 $\infty$ 

9

20

40

60

Age at diagnosis

80

100

 $\infty$ 

9

20

40

60

Age at diagnosis

80

100

## PAM50 Normal: N = 202 Ret|ILMN\_1706301

NKI Tier 1: non-ER binding; Tier 2: ER binding

