**PAM50 LumA: N = 721 PAM50 LumB: N = 492** Ret|ILMN\_1666314 Ret|ILMN\_1666314 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.91724Age-dependent trend: [<=60] p = 0.99009No detectable trend: 16 16 [>60] p = 0.0014638 [>60] p = 0.60923|FC|>1.25 and adjPval<0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.00092092[All] p = 0.16954 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\_1666314 Ret|ILMN\_1666314 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.50865No detectable trend: [<=60] p = 0.39817No detectable trend: 16 16 [>60] p = 0.2767|FC|<1.25 or adjPval>0.01 [>60] p = 0.098441 |FC|<1.25 or adjPval>0.01 [AII] p = 0.59448[AII] p = 0.292664 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

PAM50 Normal: N = 202 Ret|ILMN\_1666314

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

