**PAM50 LumA: N = 721 PAM50 LumB: N = 492** DVL|ILMN\_1678564 DVL|ILMN\_1678564 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.7788[<=60] p = 0.0029039 No detectable trend: No detectable trend: 16 16 [>60] p = 0.95221 [>60] p = 0.64546 |FC|<1.25 or adjPval>0.01 |FC|<1.25 or adjPval>0.01 [AII] p = 0.11914[AII] p = 0.287424 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 Basal: N = 331** PAM50 Her2: N = 240DVL|ILMN\_1678564 DVL|ILMN\_1678564 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.55301 [<=60] p = 0.20135No detectable trend: No detectable trend: 16 16 [>60] p = 0.59132 |FC|<1.25 or adjPval>0.01 [>60] p = 0.35427 |FC|<1.25 or adjPval>0.01 [AII] p = 0.32766[AII] p = 0.00340594 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ω 9

20

40

60

Age at diagnosis

80

100

20

40

60

Age at diagnosis

80

100

## PAM50 Normal: N = 202 DVL|ILMN\_1678564

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

