**PAM50 LumA: N = 721 PAM50 LumB: N = 492** DVL|ILMN\_1655632 DVL|ILMN\_1655632 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.094146 [<=60] p = 0.40986No detectable trend: No detectable trend: 16 16 [>60] p = 0.13291 [>60] p = 0.90876|FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.004423[All] p = 0.239844 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** DVL|ILMN\_1655632 DVL|ILMN\_1655632 NKI Tier 1: non-ER binding; Tier 2: ER binding NKI Tier 1: non-ER binding; Tier 2: ER binding [<=60] p = 0.31663No detectable trend: [<=60] p = 0.71352No detectable trend: 16 16 [>60] p = 0.38041[>60] p = 0.3173 |FC|<4 or adjPval>0.01 |FC|<4 or adjPval>0.01 [AII] p = 0.16083[AII] p = 0.361444 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 DVL|ILMN\_1655632

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

