ER+/HER2-: N = 1408ER+/HER2+: N = 110MLL3|ILMN_1736165 MLL3|ILMN_1736165 NKI Tier 1: non-ER binding; Tier 2: non-ER bindi NKI Tier 1: non-ER binding; Tier 2: non-ER bindi [<=60] p = 0.8594[<=60] p = 0.9016No detectable trend: No detectable trend: 16 16 [>60] p = 0.035099 |FC|<2 or adjPval>0.01 [>60] p = 0.57985 |FC|<2 or adjPval>0.01 [AII] p = 0.89122[AII] p = 0.0966514 4 Raw Expression (4, 16) Raw Expression (4, 16) 12 12 10 10 ω ∞ 9 9 20 40 60 80 100 20 40 60 80 100 Age at diagnosis Age at diagnosis ER-/HER2+: N = 139ER-/HER2-: N = 335MLL3|ILMN_1736165 MLL3|ILMN_1736165 NKI Tier 1: non-ER binding; Tier 2: non-ER bindi NKI Tier 1: non-ER binding; Tier 2: non-ER bindi [<=60] p = 0.55353No detectable trend: [<=60] p = 0.22541No detectable trend: 16 16 [>60] p = 0.51958 |FC|<2 or adjPval>0.01 [>60] p = 0.86987 |FC|<2 or adjPval>0.01 [AII] p = 0.90036[AII] p = 0.302014 4

