Study logOR [95%CI] P-value -1.71 [-3.43; 0.01] 0.05 Miao.1, Kidney, n = 28-0.80 [-2.03; 0.43] 0.21 Fumet.2, Lung, n = 41Riaz, Melanoma, n = 33-0.44 [-1.95; 1.07] 0.57 Liu. Melanoma. n = 112 -0.28 [-1.14: 0.58] 0.52 Braun, Kidney, n = 139-0.20 [-0.96; 0.56] 0.61 Jung, Lung, n = 260.26 [-1.39; 1.91] 0.76 Fumet.1, Lung, n = 390.35 [-1.00; 1.70] 0.62 Mariathasan, Bladder, $n = 133 \ 0.35 \ [-0.28; \ 0.98]$ 0.27 Mariathasan, Kidney, n = 460.61 0.41 [-1.18: 2.00] Nathanson, Melanoma, $n = 24 \ 0.77 \ [-1.17; \ 2.71]$ 0.44 $Van_Allen, Melanoma, n = 39 0.97 [-0.85; 2.79]$ 0.30 Hugo, Melanoma, n = 272.11 [0.29; 3.93] 0.02

Snyder, Ureteral, n = 223.14 [0.20; 6.08] 0.04 0.09 [-0.27: 0.46] Total Heterogeneity: $\chi_{12}^2 = 19.13 \ (P = .09), \ I^2 = 37\% \ [0\%; 68\%]$ Test for overall effect: z = 0.50 (P = .62) -2-10123

Estimated logOR