

**Table 1 – Source data 1. Affinity curves for leucine and alanine binding to LeuT and mutants. (A**,**C**,**E**,**I)** [3H]leucine saturation binding for WT (A), A22V (C), A22S (E) and T254S (I). (**B**,**D**,**F-H,J-N**) Displacement of [3Hleucine by leucine for N27Q (G), N286Q (K) and E290Q (M), or by alanine for WT (B), A22V (D), A22S (F), N27Q (H), T254S (J), N286Q (L) and E290Q (N). Binding was assayed in 200 mM Na+. All data points are mean ± s.e.m., n = 3-4, and fitted to a one-site binding model (A, C, E, I) or non-linear regression fit. *K*d and *K*i values are summarized in Table 1. All data is provided in the source data file.