

Heatmap visualization showing stability scores (color scale, ranging from -0.5 to 2.5) for 43 protein residues (rows) across 20 amino acid types (columns). The residues are labeled on the left: P1, D2, D3, V4, K5, K6, T7, A8, K9, K10, L11, I12, K13, N14, G15, V16, S17, R18, D19, Q20, I21, R22, E23, E24, L25, K26, R27, R28, G29, V30, N31, P32, D33, E34, I35, K36, E37, A38, E39, K40, D41, A42, F43. The amino acid types are labeled on the top: P, F, Y, W, I, V, L, M, G, A, S, T, K, R, H, D, N, E, Q. A color bar on the right indicates the stability score, with a scale from -0.5 (dark blue) to 2.5 (dark red). A specific value of 1.6 is highlighted in red for residue A38.

