
Binding Region. **(b)** To assign statistical significance to our pair-wise comparison score ($S(A,B)$), we employed the Z-score ($Z(A,B)$) developed by Holm and colleagues (27). **(c)** Secondary sequence alignment of ZAK α YLD and the DALI hits from Figure 3b-i. Gaps indicate unaligned regions. Uppercase letters denote structurally equivalent positions with ZAK α YLD, whereas lowercase letters denote insertions relative to ZAK α YLD. The most frequent secondary structure to which a specific amino acid residue contributes at a specific position is colored in each column. H/h, helix, E/e, strand, L/l, coil.

Table S1. DALI hits from comparison of amino acids 433-550 of ZAK α against the human AlphaFold database. DALI hits with Z scores above or equal 2 are shown.

Table S2. JSON PAE amino acid array in excel format. The JSON PAE file can be downloaded from <https://alphafold.ebi.ac.uk/>, and the code can be accessed via https://github.com/Valdemar-BI-Johansen/MAP3K20_PAE.git.