

## Supplementary Note: Marginal probability landscape visualizations

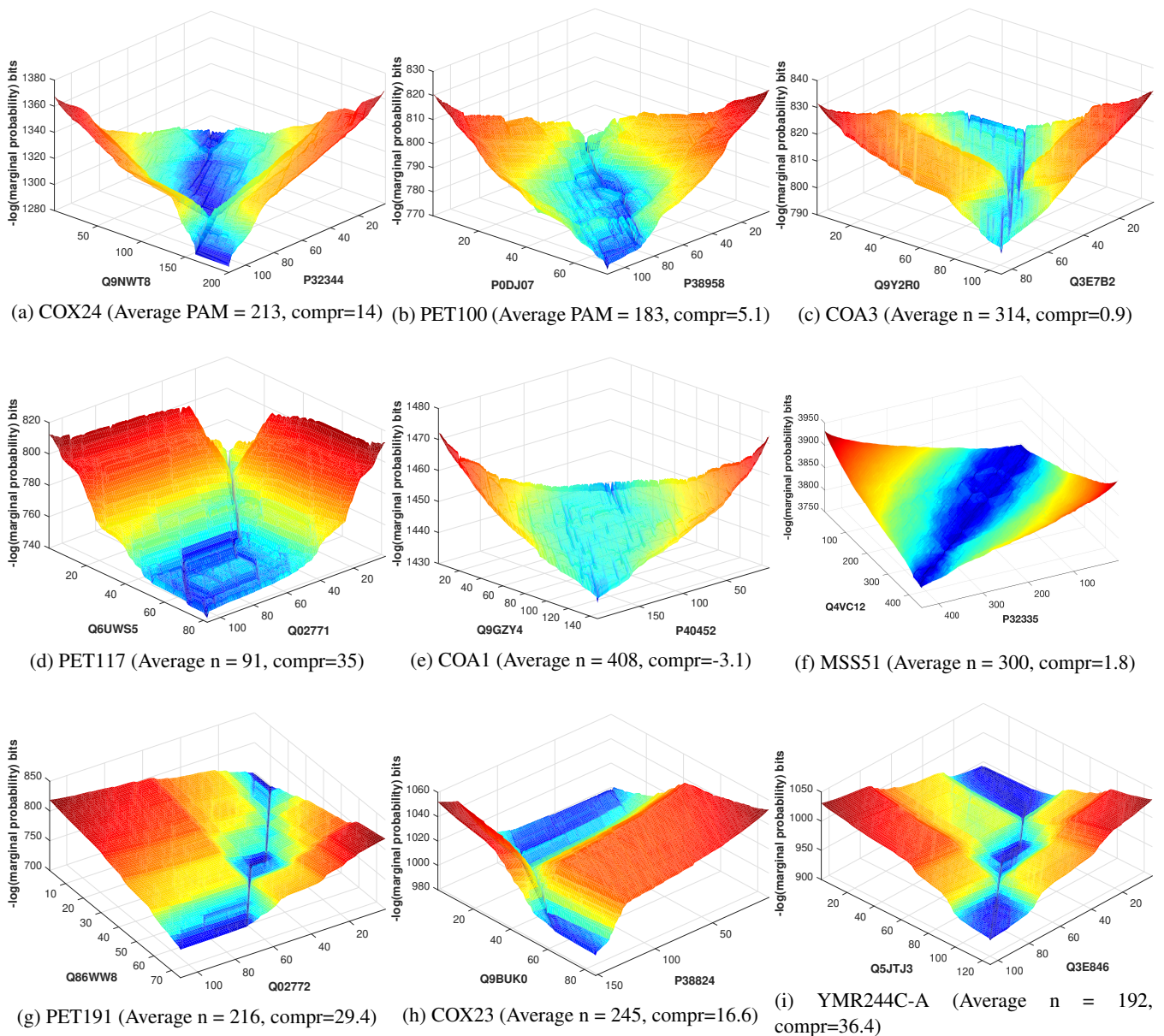


Fig. 1: A gallery of marginal probability landscapes inferred for 9 human vs yeast ortholog pairs: COX24, PET100, COA3, PET117, COA1, MSS51, PET191, COX23 and YMR244C-A, from the fungal mitochondrial remote ortholog dataset by Szklarczyk et al. (*Genome Biology*, 2012)(Note: compr refers to the compression gain of the marginal probability based *alignment-model* in bits, with respect to the *null-model*)