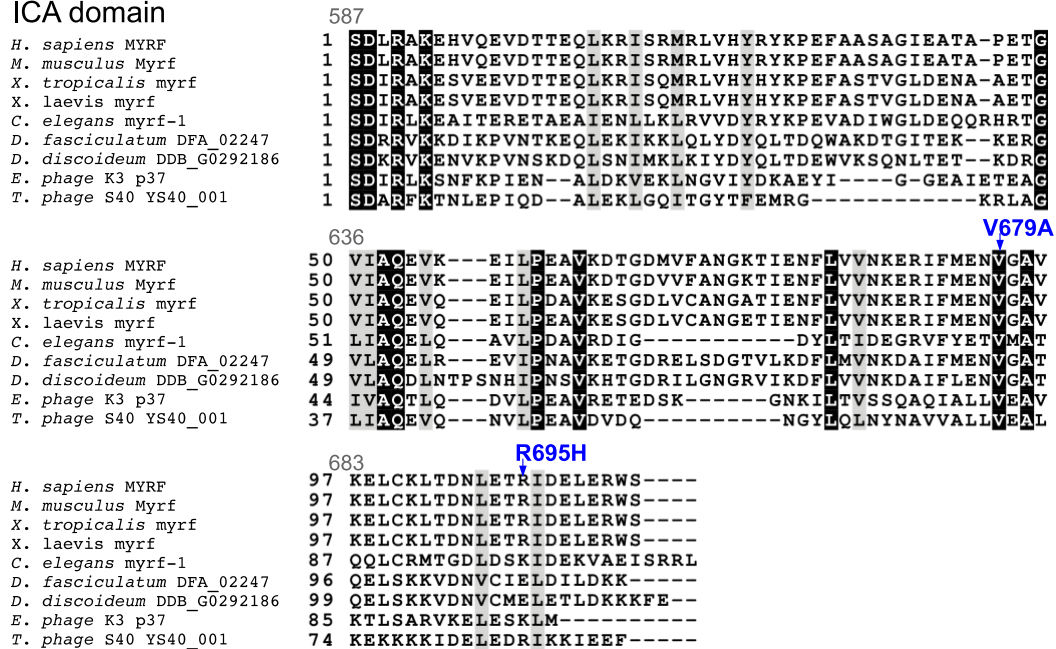


S3 Fig. Multiple sequence alignment (MSA) of MYRF protein domains.

a DBD domain



b ICA domain



Homologous protein sequences from UniProtKB/Swiss-Prot were searched by BLASTP (<https://blast.ncbi.nlm.nih.gov/Blast.cgi?PAGE=Proteins>). Selected ortholog sequences on DBD and ICA domains were aligned using Clustal Omega (Sievers, Wilm et al. 2011), and the resulting MSA were then visualized by BoxShade (https://embnet.vital-it.ch/software/BOX_form.html). Residues that are completely conserved are highlighted in black; changes to residues with similar biochemical properties are shaded in gray. Amino acid substitutions that result from *de novo* missense variants are shown above the MSA. Most substitutions affect highly conserved residues.