

1 **Supplemental Material**

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3 **Strains used in this study**

4 **Supplemental table S1** describes the known features of the strains used in this study and gives
5 references and origin where available.

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7 **Expanded fungal panel**

8 To investigate the robustness of the measured MIC values on the strains presented in **table 3** we
9 have expanded the testing to additional strains, mostly clinical isolates (see **supplemental table**
10 **S1**). As presented in **supplemental table S2** the general activity on these species and target
11 inhibition bypass upon addition of valine and isoleucine but not lysine could be confirmed across
12 the entire panel of strains.

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14 **HIP HOP Profiles for all compounds used in this study**

15 The complete HIP HOP profiles are provided as tab delimited .txt files contained in the
16 compressed **Supplemental_Material_S3.zip** file. The digital file is available on the Dryad
17 website (<http://dx.doi.org/10.5061/dryad.qb753>). The sensitivity and z-scores for all HIP
18 strains present in the pool across all tested compounds are listed in the HIP-exp-scores-
19 annotation.txt file. Scores for all HOP strains present in the pool are listed in the HOP-exp-
20 scores-annotation.txt file. To reproduce the plots depicted in the article the sensitivity can be
21 plotted on the y-axis, the z-score on the x-axis. Each gene is annotated with systematic name,
22 common name, description, GO category etc.

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24 ***In silico* docking model**

25 The presented *in silico* docking solution is provided as a standard Protein Data Bank file named
26 1N0H_compound1_docked.pdb. contained in the **Supplemental_Data_S4.zip** file. The digital
27 file is available on the Dryad website (<http://dx.doi.org/10.5061/dryad.qb753>). UNK1
28 refers to the docked compound 1, all other structures are labeled as in the original 1N0H.pdb file
29 downloaded from RCSB protein databank www.pdb.org.