

Table S2. List of the IMPDH protein sequences from *Pneumocystis* species and other fungi that were aligned with the IMPDH sequences obtained in the present study.

Organism – strain	Abbreviation	Protein sequence	Protein length (aa)	Comments
<i>Pneumocystis jirovecii</i>	PjIMPDH-Ma	Uniprot A0A0W4ZU90	534	IMPDH from Ma et al. [17]
<i>Pneumocystis jirovecii</i>	PjIMPDH-Cissé	Uniprot L0P7N3	534	IMPDH from Cissé et al. [18]
<i>Pneumocystis carinii</i>	PcIMPDH	Uniprot A0A0W4ZEI8	529	IMPDH from Ma et al. [17]
<i>Pneumocystis murina</i>	PmIMPDH	Uniprot M7NKD5	529	IMPDH from Ma et al. [18]
<i>Meyerozyma guilliermondii</i>	MgIMPDH1-MPA <sup>S</sup>	Uniprot A5DL50	521	MPA-sensitive IMPDH produced by <i>IMH3.1</i> gene <sup>a</sup>
<i>Meyerozyma guilliermondii</i>	MgIMPDH2-MPA <sup>R</sup>	Uniprot A5DLR4	521	MPA-resistant IMPDH produced by <i>IMH3.2</i> gene <sup>a</sup>
<i>Saccharomyces cerevisiae</i> S288C	ScIMPDH2-MPA <sup>R</sup>	Uniprot P38697	523	MPA-resistant IMPDH produced by <i>IMD2</i> gene <sup>b</sup>
<i>Saccharomyces cerevisiae</i> S288C	ScIMPDH3-MPA <sup>S</sup>	Uniprot P50095	523	MPA-sensitive IMPDH produced by <i>IMD3</i> gene <sup>b</sup>
<i>Candida albicans</i> EC3	CaIMPDH-MPA <sup>R</sup>	GenBank AAW65379.1	521	MPA-resistant IMPDH <sup>c</sup>
<i>Candida albicans</i> SC5314	CaIMPDH-MPA <sup>S</sup>	Uniprot Q59Q46	521	MPA-sensitive IMPDH
<i>Penicillium brevicompactum</i>	PbIMPDHA-MPA <sup>R</sup>	Uniprot G4WT15	537	MPA-resistant IMPDH (IMPDH-A) Partial coding sequence missing N-terminal MPITASDAAP
<i>Aspergillus nidulans</i>	AnIMPDH-MPA <sup>S</sup>	Aspergillus Genome Database AN12478	546	MPA-sensitive IMPDH

<sup>a</sup> *Meyerozyma guilliermondii* genome harbors two genes (*IMH3.1* and *IMH3.2*) encoding IMPDH proteins. *IMH3.1* encodes a MPA-sensitive IMPDH whereas *IMH3.2* encodes a MPA-resistant IMPDH [22].

<sup>b</sup> *Saccharomyces cerevisiae* genome harbors four genes (*IMD1 – IMD4*) encoding IMPDH proteins. *IMD1*, *IMD3* and *IMD4* encode MPA-sensitive IMPDHs whereas *IMD2* encodes a MPA-resistant IMPDH [23].

<sup>c</sup> *Candida albicans* EC3 is a mutant strain of strain SC5314 selected under high concentration of MPA (10 µg/mL) [21].