

Table 1: InterPro domain information for the top five non-Apicomplexan hits from a PSI-Blast pseudo-multiple sequence alignment (comparing the Pf α/β -hydrolase sequence to a non-redundant protein databank) generated using Phyre2 (7).

Input	E-value	Organism and gene ID (UniRef50 accession number)	IPRO29058 (α/β -hydrolase)	IPRO00639 (Epoxy_hydrolase_like)	IPRO22742 (Lysophospholipase_put/serine aminopeptidase)
PfEH1	6.0E-62	<i>Desulfatibacillum alkenivorans</i> (Proteobacteria) α/β -hydrolase (B8FAJ5)	✓	✓	✗
	5.0E-60	<i>Nostoc punctiforme</i> (Cyanobacteria) α/β -hydrolase (B2IZH4)	✓	✓	✗
	4.0E-59	<i>Carnobacterium</i> sp. AT7 (Firmicutes) Uncharacterized protein (A8UAB3)	✓	✓	✗
	7.0E-59	<i>Alpha proteobacterium</i> (Proteobacteria) putative 3-oxoadipate enol-lactonase (A8TT96)	✓	✗	✗
	8.0E-59	<i>Pseudoalteromonas atlantica</i> (strain T6c) (Proteobacteria) α/β -hydrolase (Q15ZT2)	✓	✓	✗
PfEH2	1.0E-70	<i>Homo sapiens</i> (Human) Soluble bifunctional epoxide hydrolase EPHX2 (P34913)	✓	✓	✗
	1.0E-68	<i>Sus scrofa</i> (Pig) Soluble bifunctional epoxide hydrolase EPHX2 (Q6Q2C2)	✓	✓	✗
	9.0E-65	<i>Parvibaculum lavamentivorans</i> (Proteobacterium) α/β -hydrolase (A7HW23)	✓	✓	✗
	3.0E-63	<i>Salmo salar</i> (Atlantic salmon) Epoxide hydrolase 2 (P34914)	✓	✓	✗
	5.0E-62	<i>Nostoc punctiforme</i> (Cyanobacteria) α/β -hydrolase (B2IV02)	✓	✓	✗
PfXL1	1.0E-57	<i>Salinibacter ruber</i> (Bacteroidetes) Lysophospholipase (Q2S1I8)	✓	✗	✓
	2.0E-57	<i>Herpetosiphon aurantiacus</i> (Chloroflexi) α/β -hydrolase (A9B3M2)	✓	✗	✓
	2.0E-57	<i>Chlamydomonas reinhardtii</i> (green algae) Predicted protein (A8IJR0)	✓	✗	✗
	1.0E-55	<i>Oryza sativa subsp. japonica</i> (rice) (Q0J1Y4)	✓	✗	✓
	6.0E-55	<i>Desulfococcus oleovorans</i> (Proteobacteria) α/β -hydrolase (A8ZXX5)	✓	✗	✓
PfXL2	3.0E-55	<i>Salinibacter ruber</i> (Bacteroidetes) Lysophospholipase (Q2S1I8)	✓	✗	✓
	8.0E-54	<i>Geodermatophilus obscurus</i> (Actinobacteria) α/β -hydrolase (D2S453)	✓	✗	✗
	1.0E-53	<i>Oryza sativa subsp. japonica</i> (rice) Lysophospholipase (Q8H4S9)	✓	✗	✗
	4.0E-53	<i>Gordonia bronchialis</i> (Actinobacteria) Acylglycerol lipase (D0L785)	✓	✗	✗
	6.0E-52	<i>Herpetosiphon aurantiacus</i> (Chloroflexi) α/β -hydrolase (A9B3M2)	✓	✗	✓