
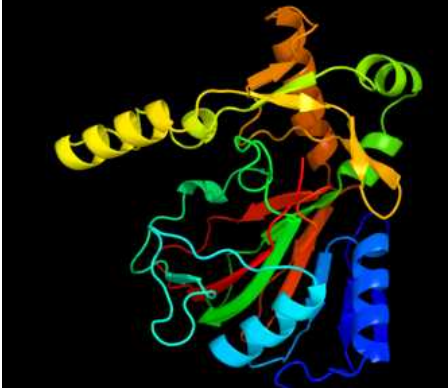

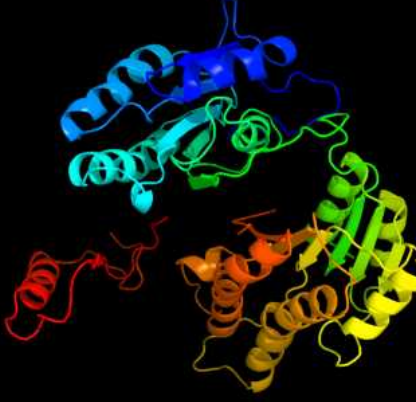



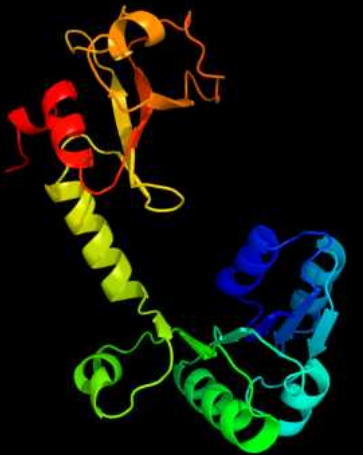


Supplementary Figure S1.

Gene	Phyre2 Structure Prediction	Con	Cov	ID %	Template
FhaA (Rv0020c) Actual Structure (ref)		n/a	n/a	n/a	Actual structure
Rv0097		100	94	23	fe(ii)/alpha-ketoglutarate dependent taurine2 dioxygenase from pseudomonas putida kt2440

<p>Rv3237 c</p>		<p>99.8</p>	<p>66</p>	<p>26</p>	<p>Putative Potassium Channel Related Protein Pyrococcus horikoshii OT3</p>
<p>FabG4 (Rv0242c)</p>		<p>100</p>	<p>89</p>	<p>99</p>	<p>FabG1 from M. tuberculosis H37Ra</p>
<p>PepC (Rv0800)</p>		<p>100</p>	<p>98</p>	<p>36</p>	<p>human aspartyl aminopeptidase (dnpep)</p>

Rv2296		100	99	30	Haloalkane dehalogenase from Xanthobacter autotrophicus
Rv2216		100	97	32	human epimerase family protein sdr39u12 (isoform2) with nadph
CeoB (Rv2691)		100	97	22	potassium transporter peripheral membrane component (trka) from vibrio2 vulnificus

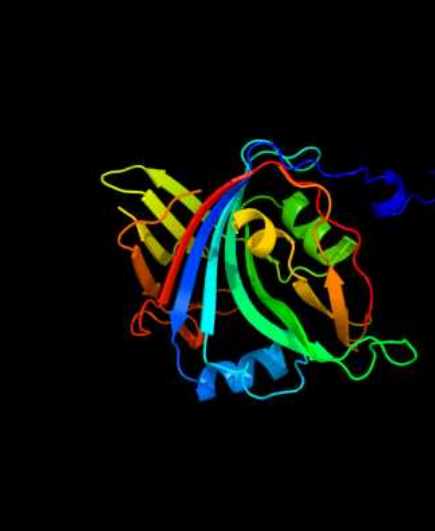
Rv3519		100 %	91 %	Acetoacetate Decarboxylase (Clostridium acetobutylicum)
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Table S2. Sequenced Genomes Used for Conservation Analysis

Species	Assembly	Accession	Size (Mb)	GC%
<i>Mycobacterium tuberculosis</i> UT205 chromosome	Mt_UT205	NC_016934.1	4.42	64.9
<i>Mycobacterium tuberculosis</i> RGTB423 chromosome	ASM27710v1	NC_017528.1	4.41	65.6
<i>Mycobacterium tuberculosis</i> RGTB327 chromosome	ASM27708v1	NC_017026.1	4.38	65.6
<i>Mycobacterium tuberculosis</i> KZN1435 chromosome	ASM2362v1	NC_012943.1	4.40	65.6
<i>Mycobacterium tuberculosis</i> KZN 4207 chromosome	ASM15458v2	NC_016768.1	4.39	65.6
<i>Mycobacterium tuberculosis</i> KZN 605 chromosome	ASM15460v2	NC_018078.1	4.40	65.6
<i>Mycobacterium tuberculosis</i> Haarlem/NITR202 chromosome	ASM38990v1	NC_021192.1	4.40	65.6
<i>Mycobacterium tuberculosis</i> H37Rv chromosome	ASM19595v2	NC_000962.3	4.41	65.6
<i>Mycobacterium tuberculosis</i> H37Ra chromosome	ASM1614v1	NC_009525.1	4.42	65.6
<i>Mycobacterium tuberculosis</i> F11 chromosome	ASM1692v1	NC_009565.1	4.42	65.6
<i>Mycobacterium tuberculosis</i> EA15/NITR206 chromosome	ASM38994v1	NC_021194.1	4.39	65.6
<i>Mycobacterium tuberculosis</i> CTRI-2 chromosome	ASM22443v1	NC_017524.1	4.40	65.6
<i>Mycobacterium tuberculosis</i> CCDC5180 chromosome	ASM27036v1	NC_017522.1	4.41	65.6
<i>Mycobacterium tuberculosis</i> CCDC5079 chromosome	ASM27034v1	NC_017523.1	4.40	65.6
<i>Mycobacterium tuberculosis</i> CAS/NITR204 chromosome	ASM38992v1	NC_021193.1	4.39	65.6
<i>Mycobacterium tuberculosis</i> Beijing/NITR203 chromosome	ASM36482v1	NC_021054.1	4.41	65.6
<i>Mycobacterium tuberculosis</i> ATCC 35801 chromosome	ASM35020v1	NC_020559.1	4.39	65.6
<i>Mycobacterium smegmatis</i> MC2 155	ASM1500v1	NC_008596.1	6.99	67.4
<i>Mycobacterium canettii</i> CIPT 140070008	ASM32880v1	NC_019965.1	4.43	65.6
<i>Mycobacterium bovis</i> AF2122/97	ASM19583v1	NC_002945.3	4.35	65.6
<i>Mycobacterium avium</i> 104	ASM1498v1	NC_008595.1	5.48	69.0
<i>Mycobacterium africanum</i> GMO41182	ASM25335v1	NC_015758.1	4.39	65.6