

Table 2 Sample problem sets after re-annotation

Results	Sequence ID 2389 <sup>a</sup>	Sequence ID 4267 <sup>a</sup>
PFAM	Metallo-beta lactomase <sup>b</sup>	Thiolase <sup>b</sup>
COG	Zinc dependent Hydrolases <sup>b</sup>	Acetyl CoA Acetyl transferases <sup>b</sup>
SCANPROSITE	No Hits	Thiolase enzymes <sup>b</sup>
BLAST	No hits	Acetyl CoA Acetyl transferases <sup>b</sup>
PRODOM	Probable Hydrolase <sup>c</sup>	Probable Acetyl Transferase <sup>c</sup>

Note: <sup>a</sup> Sequence ID in Rec-DB database; <sup>b</sup> Different functions from different tools; <sup>c</sup> Functions predicted with a negative term “Probable”