Supplementary figure legends

Fig. S1 Phylogenetic tree of arginase and related proteins. Arginases and related proteins present in PDB and NR database constructed by maximum likelihood method. The numbers below and above the branch points denote the confidence levels of the relationship of the paired sequences determined by boot strap statistical analysis. The tree is drawn to scale, with branch lengths measured in the number of substitutions per site.

Fig. S2 Determination of molecular mass by size exclusion chromatography. Standard curve Log of molecular weight Versus Ve/Vo was derived from the elution profile of standard protein on Superdex 200 gel filtration column. Ve is peak elution volume and Vo is the void volume of the column. The standards used were as follows: 1. Blue dextran (2000kDa) 2. Conalbumin (75kDa) 3.Bovine serum albumin (66kDa) 4.Ovalbumin (43kDa) 5.Lysozyme 14kDa).

Fig. S1

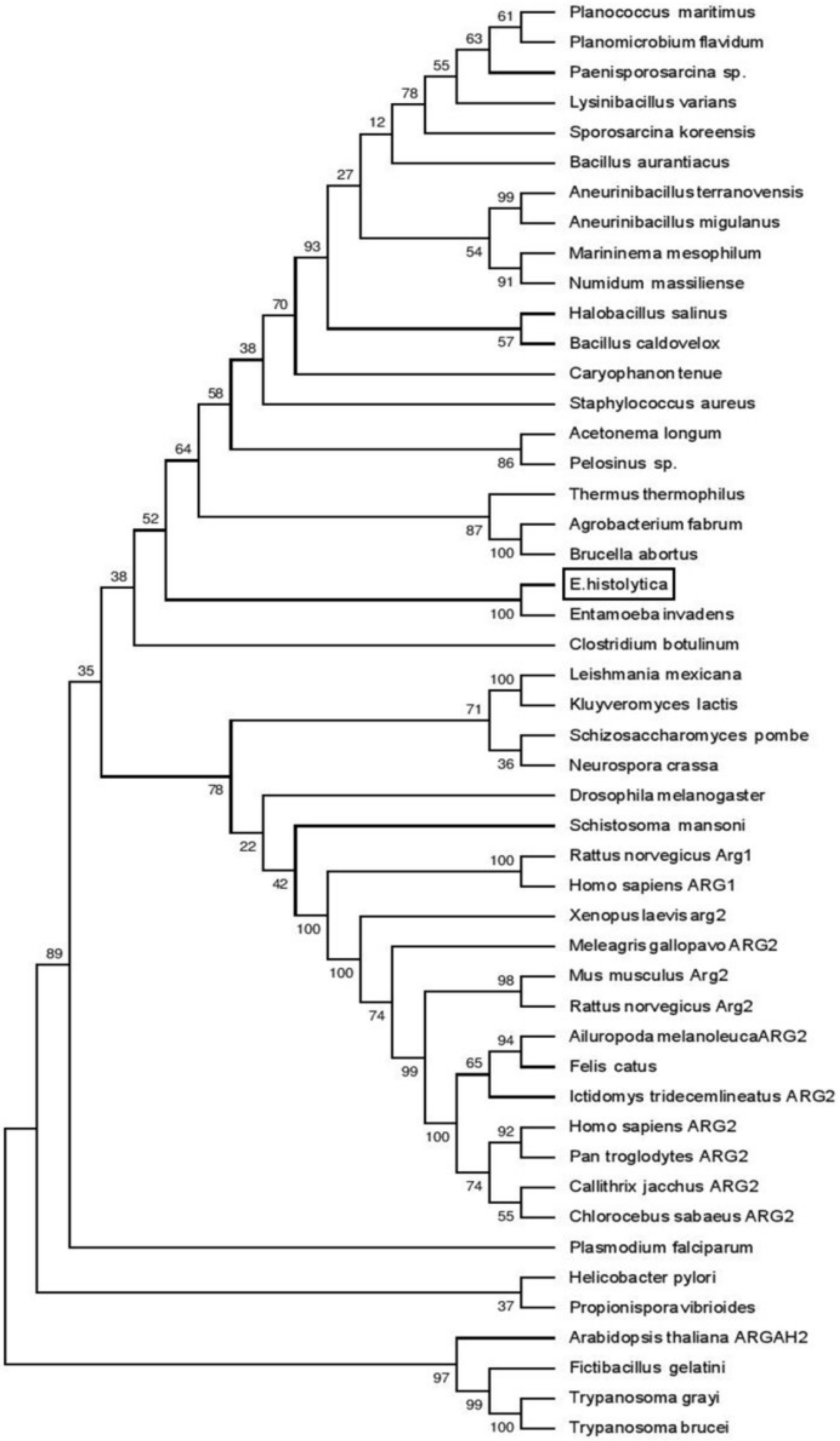
61
Planococcus maritimus
63
Planomicrobium flavidum
55
Paenisporosarcina sp.
78
Lysinibacillus varians
12
Sporosarcina koreensis
27
Bacillus aurantiacus
99
Aneurinibacillus terranovensis
Aneurinibacillus migulanus
93
54
Marininema mesophilum
91
Numidum massiliense
70
Halobacillus salinus
57
Bacillus caldovelox
38
Caryophanon tenue
58
Staphylococcus aureus
64
Acetonema longum
86
Pelosinus sp.
Thermus thermophilus
52
87
Agrobacterium fabrum
100
Brucella abortus
38
E.histolytica
100
Entamoeba invadens
Clostridium botulinum
35
100
Leishmania mexicana
71
Kluyveromyces lactis
Schizosaccharomyces pombe
36
Neurospora crassa
78
Drosophila melanogaster
Schistosoma mansoni
22
100
Rattus norvegicus Arg1
42
Homo sapiens ARG1
Xenopus laevis arg2
100
Meleagris gallopavo ARG2
89
100
98
Mus musculus Arg2
74
Rattus norvegicus Arg2
94
Ailuropoda melanoleuca ARG2
99
65
Felis catus
Ictidomys tridecemlineatus ARG2
92
Homo sapiens ARG2
100
Pan troglodytes ARG2
74
Callithrix jacchus ARG2
55
Chlorocebus sabaeus ARG2
Plasmodium falciparum
Helicobacter pylori
37
Propionispora vibrioides
Arabidopsis thaliana ARGAH2
97
Fictibacillus gelatini
99
Trypanosoma grayi
100
Trypanosoma brucei

Fig. S2