



PC1 negative loadings		PC1 positive loadings	
-1	Sulfite reductase [NADPH] flavoprotein alpha-component (EC 1.8.1.2)	1	Duplicated ATPase component BL0693 of energizing module of predicted ECF transporter
-2	Outer membrane receptor for ferric coprogen and ferric-rhodotorulic acid	2	Pyruvate-flavodoxin oxidoreductase (EC 1.2.7.-)
-3	Exodeoxyribonuclease V gamma chain (EC 3.1.11.5)	3	Pyrophosphate-energized proton pump (EC 3.6.1.1)
-4	Glutathione biosynthesis bifunctional protein gshF (EC 6.3.2.2)(EC 6.3.2.3)	4	Transport ATP-binding protein CydC
-5	Maltodextrin phosphorylase (EC 2.4.1.1)	5	Multi antimicrobial extrusion protein (Na <sup>+</sup> /drug antiporter), MATE family of MDR efflux pumps
-6	Sulfite reductase [NADPH] hemoprotein beta-component (EC 1.8.1.2)	6	DNA topoisomerase III (EC 5.99.1.2)
-7	Oligopeptidase A (EC 3.4.24.70)	7	Putative mobilization protein BF0133
-8	Serine endopeptidase ScpC (EC 3.4.21.-)	8	Conjugative transposon protein TraG
-9	Chaperone protein HscA	9	Pyrophosphate-dependent fructose 6-phosphate-1-kinase (EC 2.7.1.90)
-10	Beta-lactamase (EC 3.5.2.6)	10	Pyruvate,phosphate dikinase (EC 2.7.9.1)

PC1 negative loadings – no modern humans		PC1 positive loadings – no modern humans	
-1	Sulfite reductase [NADPH] flavoprotein alpha-component (EC 1.8.1.2)	1	Duplicated ATPase component BL0693 of energizing module of predicted ECF transporter
-2	Exodeoxyribonuclease V gamma chain (EC 3.1.11.5)	2	Putative mobilization protein BF0133
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-7	Oligopeptidase A (EC 3.4.24.70)	7	Transport ATP-binding protein CydC
-8	Chaperone protein HscA	8	Multi antimicrobial extrusion protein (Na <sup>+</sup> /drug antiporter), MATE family of MDR efflux pumps
-9	Dihydroliipoamide dehydrogenase of pyruvate dehydrogenase complex (EC 1.8.1.4)	9	V-type ATP synthase subunit A (EC 3.6.3.14)
-10	Exodeoxyribonuclease V beta chain (EC 3.1.11.5)	10	V-type ATP synthase subunit B (EC 3.6.3.14)

PC2 negative loadings		PC2 positive loadings	
-1	Pyruvate-utilizing enzyme, similar to phosphoenolpyruvate synthase	1	Acriflavin resistance protein
-2	Serine endopeptidase ScpC (EC 3.4.21.-)	2	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)
-3	Pullulanase (EC 3.2.1.41)	3	Glutathione-regulated potassium-efflux system ATP-binding protein
-4	Choline binding protein A	4	Exodeoxyribonuclease V gamma chain (EC 3.1.11.5)
-5	Sialidase (EC 3.2.1.18)	5	3-oxoacyl-[acyl-carrier-protein] synthase, KASI (EC 2.3.1.41)
-6	FtsK/SpoIIIE family protein, putative EssC component of Type VII secretion system	6	Na <sup>+</sup> -translocating NADH-quinone reductase subunit F (EC 1.6.5.-)
-7	ATP-dependent nuclease, subunit B	7	GTP pyrophosphokinase (EC 2.7.6.5), (p)ppGpp synthetase II
-8	Beta-hexosaminidase (EC 3.2.1.52)	8	ATP-dependent DNA helicase Rep
-9	Alpha-galactosidase (EC 3.2.1.22)	9	Ribonucleotide reductase of class Ia (aerobic), beta subunit (EC 1.17.4.1)
-10	Alpha-1,2-mannosidase	10	Catalase (EC 1.11.1.6)

PC2 negative loadings – no modern humans		PC2 positive loadings – no modern humans	
-1	Putative mobilization protein BF0133	1	Pyruvate-utilizing enzyme, similar to phosphoenolpyruvate synthase
-2	Conjugative transposon protein TraG	2	Serine endopeptidase ScpC (EC 3.4.21.-)
-3	Na <sup>+</sup> -translocating NADH-quinone reductase subunit F (EC 1.6.5.-)	3	Pullulanase (EC 3.2.1.41)
-4	Acriflavin resistance protein	4	Choline binding protein A
-5	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)	5	Sialidase (EC 3.2.1.18)
-6	Ferric iron ABC transporter, permease protein	6	FtsK/SpoIIIE family protein, putative EssC component of Type VII secretion system
-7	GTP pyrophosphokinase (EC 2.7.6.5), (p)ppGpp synthetase II	7	Glutathione biosynthesis bifunctional protein gshF (EC 6.3.2.2)(EC 6.3.2.3)
-8	3-oxoacyl-[acyl-carrier-protein] synthase, KASI (EC 2.3.1.41)	8	ATP-dependent nuclease, subunit B
-9	Phosphoenolpyruvate carboxykinase [ATP] (EC 4.1.1.49)	9	Maltodextrin phosphorylase (EC 2.4.1.1)
-10	Lipid-A-disaccharide synthase (EC 2.4.1.182)	10	Alpha-galactosidase (EC 3.2.1.22)