











PC2 negative loadings	
-2 K03574 [EC:3.6.1.55] 2 K03569 related proteins malate dehydrogenase (oxaloacetate fectors). 4 K15634 [EC:3.6.4.2.12] 3 K00027 decarboxylating) [EC:1.1.1.38] iron(IIII) transport system substrate-b protein transcriptional regulator of arginine multiple sugar transport system substrate-b protein transcriptional regulator of arginine multiple sugar transport system substrate-b protein phosphoenolpyruvate carboxykinase substrate-binding protein pultiple sugar transport system substrate-binding protein pultiple substrate-	
-3 K15634 [EC:5.4.2.12] 3 K00027 decarboxylating) [EC:1.1.1.38] iron(III) transport system substrate-b quality sugar transport system substrate-binding protein substrate-binding protein prot	and
4 K01104   EC:3.1.3.48    K02012   protein DNA-directed RNA polymerase suburing transcriptional regulator of arginine metabolism multiple sugar transport system multiple sugar transport system substrate-binding protein 5-(carboxyamino)imidazole inbonucleotide synthase (EC:6.3.4.18  8 K01507   inorganic pyrophosphatase (EC:3.6.1.1)   protein DNA-directed RNA polymerase suburing beta [EC:2.7.7.6]   6.7-dimethyl-8-ribityllumazine synthase (EC:3.1.78  phosphoenolpyruvate carboxykinase (EC:3.6.1.19)   (ATP) [EC:4.1.1.49]   (ATP) [EC:4.1.1.49]	:-
-5 K07052 uncharacterized protein transcriptional regulator of arginine metabolism metabolism multiple sugar transport system substrate-binding protein 5-(carboxyamino)imidazole inbonucleotide synthase [EC:6.3.4.18] 8 K01507 inorganic pyrophosphatase [EC:3.6.1.1]	inding
-6 K03402 metabolism 6 K00794 [EC.2.5.1.7e] multiple sugar transport system substrate-binding protein 7 K01610 -8 K01589 ribonucleotide synthase [EC:6.3.4.18] 8 K01507 inorganic pyrophosphatase [EC:3.6.1.1]	nit
-7 K02027 substrate-binding protein 7 K01610 (ATP) [EC:4.1.1.49] (-3.6.1.1] (-3.6.1.1] (-3.6.1.1] (-3.6.1.1] (-3.6.1.1] (-3.6.1.1] (-3.6.1.1] (-3.6.1.1]	
5-(carboxyamino)imidazole -8 K01589 ribonucleotide synthase [EC:6.3.4.18] 8 K01507 inorganic pyrophosphatase [EC:3.6.1.1]	è
	1
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- ABC-2 type transport system ATP- type IV secretion system protein VirD4	
10 K01990 binding protein 10 K03205 [EC:7.4.2.8]	

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	K03169	ve loadings – no modern humans	1	Z POSITIVE K03574	loadings – no modern humans
-1 -2	K03169	DNA topoisomerase III [EC:5.6.2.1] carbamoyl-phosphate synthase large subunit [EC:6.3.5.5]	2	K03574 K15634	8-oxo-dGTP diphosphatase [EC:3.6.1.55 probable phosphoglycerate mutase [EC:5.4.2.12]
-3	K03569	rod shape-determining protein MreB and related proteins	3	K02027	multiple sugar transport system substrate-binding protein
-4	K00027	malate dehydrogenase (oxaloacetate- decarboxylating) [EC:1.1.1.38]	4	K01104	protein-tyrosine phosphatase [EC:3.1.3.48]
-5	K03043	DNA-directed RNA polymerase subunit beta [EC:2.7.7.6] (rpoB)	5	K07052	uncharacterized protein
-6	K02012	iron(III) transport system substrate- binding protein	6	K03402	transcriptional regulator of arginine metabolism
-7	K03046	DNA-directed RNA polymerase subunit beta' [EC:2.7.7.6] (rpoC)	7	K02026	multiple sugar transport system permease protein
-8	K01610	phosphoenolpyruvate carboxykinase (ATP) [EC:4.1.1.49]	8	K02440	glycerol uptake facilitator protein
-9	K01759	lactoylglutathione lyase [EC:4.4.1.5]	9	K01496	phosphoribosyl-AMP cyclohydrolase [EC:3.5.4.19]
- 10	K00615	transketolase [EC:2.2.1.1]	10	K01990	ABC-2 type transport system ATP- binding protein