

TABLE S1. COG categories of the proteins of *P. aminophilus* JCM 7686.

Proteins predicted functions (COG categories)	Chromosome	pAMI1	pAMI2	pAMI3	pAMI4	pAMI5	pAMI6	pAMI7	pAMI8
L: DNA replication, recombination and repair	126	4	7	2	17	5	2	5	37
K: transcription	202	15	2	1	43	29	17	1	15
J: translation, ribosomal structure and biogenesis	163	2	0	0	6	2	1	0	0
D: cell division and chromosome partitioning	21	1	1	0	2	1	1	1	3
O: posttranslational modification, protein turnover, chaperones	114	0	0	0	2	6	2	0	9
M: cell envelope biogenesis, outer membrane	139	2	0	0	10	5	2	0	3
N: cell motility and secretion	24	0	0	0	0	4	0	0	1
V: defense mechanisms	38	0	0	0	9	4	3	0	5
P: inorganic ion transport and metabolism	210	14	0	0	43	38	20	0	5
T: signal transduction mechanisms	89	4	0	0	6	14	7	0	8
U: intracellular trafficking and secretion	47	0	1	0	1	0	3	1	9
C: energy production and conversion	183	5	0	0	23	10	9	0	20
G: carbohydrate transport and metabolism	139	3	0	0	31	18	9	0	6
E: amino acid transport and metabolism	385	41	0	0	65	52	31	0	1
F: nucleotide transport and metabolism	75	2	0	0	4	3	5	0	0
H: coenzyme metabolism	124	3	0	0	8	9	8	0	2
I: lipid metabolism	105	5	0	0	19	14	10	0	2
Q: secondary metabolite biosynthesis, transport and catabolism	82	10	0	0	17	8	4	0	0
R: general function prediction only	316	16	0	1	51	28	18	1	17
function unknown (hypothetical protein)	904	8	2	1	33	28	27	5	61