

Table S1. The number of GTA genes detected in 212 alphaproteobacterial genomes and viruses from the RefSeq database.

GTA gene	Number of GTA genes	Number of viral homologs	Used for cost of production analysis	Used for ancestral reconstructions	Functional annotation[#]
<i>g1</i>	41	0			hypothetical protein
<i>g2</i>	205	16	X	X	ATP-binding protein
<i>g3</i>	204	261	X	X	phage-portal protein
<i>g3.5</i>	57	0			hypothetical protein
<i>g4</i>	205	164	X	X	HK97 family phage prohead protease
<i>g5</i>	205	137	X	X	phage major capsid protein
<i>g6</i>	209	36	X	X	hypothetical protein
<i>g7</i>	151	63	X	X	head-tail adaptor protein
<i>g8</i>	209	66	X	X	DUF3168 domain-containing protein
<i>g9</i>	209	18	X	X	phage major tail protein, TP901-1 family
<i>g10</i>	208	1		X	gene transfer agent family protein
<i>g10.1</i>	203	0			phage tail assembly chaperone
<i>g11</i>	209	1		X	phage tail tape measure protein
<i>g12</i>	209	26	X	X	TIGR02217 family protein
<i>g13</i>	207	70	X	X	DUF2163 domain-containing protein
<i>g14</i>	200	26	X	X	peptidase
<i>g15</i>	200	12	X	X	hypothetical protein

[#] Taken from the RefSeq record NC_014034.1