

Supplementary Table 1: *ilvB* and *hmpA* codon frequencies

Frequency of each codon per 1000 codons in the *Salmonella* genome, *ilvB*, or *hmpA* genes. Orange denotes starvation resistant codons (1).

AA-Codon	Genome	<i>ilvB</i>	<i>hmpA</i>
Ala-GCG	37	74.6	42.82
Ala-GCA	16	12.43	12.59
Ala-GCT	16	10.66	15.11
Ala-GCC	25	24.87	42.82
Cys-TGT	4	12.43	0
Cys-TGC	6	1.78	5.04
Asp-GAT	33	30.2	20.15
Asp-GAC	22	19.54	27.71
Glu-GAG	20	23.09	25.19
Glu-GAA	43	24.87	47.86
Phe-TTT	19	26.64	25.19
Phe-TTC	17	3.55	27.71
Gly-GGG	10	21.31	10.08
Gly-GGA	6	8.88	2.52
Gly-GGT	24	14.21	7.56
Gly-GGC	33	37.3	52.9
His-CAT	11	17.76	27.71
His-CAC	10	7.1	15.11
Ile-ATA	4	1.78	0
Ile-ATT	27	44.4	17.63
Ile-ATC	27	35.52	25.19
Lys-AAG	12	8.88	12.59
Lys-AAA	36	17.76	30.23
Leu-TTG	12	15.99	2.52
Leu-TTA	11	12.43	10.08
Leu-CTG	55	53.29	57.93
Leu-CTA	4	0	0
Leu-CTT	10	1.78	7.56
Leu-CTC	10	3.55	7.56
Met-ATG	26	35.52	25.19
Asn-AAT	17	19.54	15.11
Asn-AAC	24	21.31	30.23
Arg-AGG	1	0	0
Arg-AGA	2	1.78	0
Arg-CGG	5	5.33	2.52
Arg-CGA	3	0	0
Arg-CGT	23	17.76	25.19

Arg-CGC	23	17.76	15.11
Ser-AGT	7	15.99	0
Ser-AGC	16	8.88	27.71
Ser-TCG	8	8.88	2.52
Ser-TCA	6	1.78	7.56
Ser-TCT	9	5.33	0
Ser-TCC	10	5.33	2.52
Thr-ACG	15	12.43	15.11
Thr-ACA	6	12.43	10.08
Thr-ACT	9	5.33	5.04
Thr-ACC	25	23.09	25.19
Val-GTG	26	30.2	22.67
Val-GTA	12	5.33	15.11
Val-GTT	17	12.43	10.08
Val-GTC	16	8.88	17.63
Trp-TGG	12	7.1	15.11
Tyr-TAT	15	12.43	12.59
Tyr-TAC	12	3.55	17.63
Pro-CCG	15	44.4	35.26
Pro-CCA	7	0	5.04
Pro-CCT	7	12.43	0
Pro-CCC	5	14.21	12.59
Gln-CAG	31	49.73	35.26
Gln-CAA	13	12.43	10.08
End-TGA	0.8	0	0
End-TAG	0.2	0	0
End-TAA	2	1.78	2.52