

Table I Properties of *iAF1260* and *iJR904*

	<i>iAF1260</i> this study	<i>iJR904</i> Reed <i>et al.</i> , 2003
<i>Included genes</i>	1260 (28%) ^d	904 (20%) ^d
Experimentally-based function	1161 (92%)	838 (93%) ^e
Computationally predicted function	99 (8%)	58 (6%) ^e
<i>Unique functional proteins</i>	1148	817
Multigene complexes	167	105
Genes involved in complexes	415	289
Instances of isozymes ^a	346	149
<i>Reactions</i>	2077	931
<i>Metabolic reactions</i>	1387	747
Unique metabolic reactions ^b	1339	745
Cytoplasmic	1187	745
Periplasmic	192	0
Extracellular	8	2
<i>Transport reactions</i>	690	184
Cytoplasm to periplasm	390	0
Periplasm to extracellular	298	0
Cytoplasm to extracellular	2	184
<i>Gene—protein—reaction associations</i>		
Gene associated (metabolic/ transport)	1294/625	706/166
Spontaneous/diffusion reactions ^c	16/9	2/9
Total (gene associated and no association needed)	1310/634 (94%)	708/175 (95%)
No gene association (metabolic/ transport)	77/56 (6%)	37/9 (5%)
<i>Exchange reactions</i>	304	143
<i>Metabolites</i>		
Unique metabolites ^b	1039	625
Cytoplasmic	951	618
Periplasm	418	0
Extracellular	299	143

^aTabulated on a reaction basis, not counting outer membrane nonspecific porin transport.

^bReactions can occur in or between multiple compartments and metabolites can be present in more than one compartment.

^cDiffusion reactions do not include facilitated diffusion reactions and are not included in this total if they can also be catalyzed by a gene product at a higher rate.

^dOverall genome coverage based on 4453 total ORFs in *Escherichia coli* (Riley *et al.*, 2006); 2403 of these ORFs have been experimentally verified.

^eEight ORFs included in *iJR904* (1% of the total) have since been removed from the genome annotation (Riley *et al.*, 2006).