**Table S1.** Role category designations for genes within the core genome

<table>
<thead>
<tr>
<th>Role category</th>
<th>% Total(^a)</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amino acid biosynthesis</td>
<td>65.47</td>
<td>53.96</td>
<td>51.08</td>
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<tr>
<td>Biosynthesis of cofactors, prosthetic groups, and carriers</td>
<td>69.78</td>
<td>60.99</td>
<td>55.49</td>
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<tr>
<td>Cell envelope</td>
<td>43.89</td>
<td>32.13</td>
<td>25.11</td>
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<tr>
<td>Cellular processes</td>
<td>52.10</td>
<td>35.29</td>
<td>26.89</td>
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<tr>
<td>Central intermediary metabolism</td>
<td>46.34</td>
<td>32.93</td>
<td>26.83</td>
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<tr>
<td>DNA metabolism</td>
<td>78.64</td>
<td>66.02</td>
<td>61.17</td>
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<tr>
<td>Energy metabolism</td>
<td>58.02</td>
<td>38.40</td>
<td>27.43</td>
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<tr>
<td>Fatty acid and phospholipid metabolism</td>
<td>52.60</td>
<td>29.48</td>
<td>24.28</td>
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<tr>
<td>Hypothetical proteins</td>
<td>28.92</td>
<td>15.60</td>
<td>12.48</td>
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<tr>
<td>Mobile and extrachromosomal element functions</td>
<td>3.57</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>Protein fate</td>
<td>60.59</td>
<td>47.78</td>
<td>44.33</td>
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<td>Protein synthesis</td>
<td>84.11</td>
<td>70.20</td>
<td>69.54</td>
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<tr>
<td>Purines, pyrimidines, nucleosides, and nucleotides</td>
<td>90.32</td>
<td>80.65</td>
<td>75.81</td>
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<td>Regulatory functions</td>
<td>42.50</td>
<td>23.96</td>
<td>17.47</td>
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<tr>
<td>Signal transduction</td>
<td>47.67</td>
<td>27.91</td>
<td>23.26</td>
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<tr>
<td>Transcription</td>
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<td>49.40</td>
<td>48.19</td>
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<tr>
<td>Transport and binding proteins</td>
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<tr>
<td>Unknown function</td>
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<td>28.40</td>
<td>23.23</td>
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<tr>
<td>Metabolism</td>
<td>58.29</td>
<td>39.42</td>
<td>30.89</td>
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</tbody>
</table>

\(^a\) Numbers are percentages of the total number of genes with each role category designation within a representative genome (*Pseudomonas protegens* Pf-5). A: the 2789 core genes of the *P. fluorescens* group; B: 1854 core genes of the *Pseudomonas* (except *P. stutzeri* and *P. mendocina*); C: 1491 core genes of sequenced *Pseudomonas* spp. (see Figure 1).