
The nucleotide sequence of the *argT* locus of *Aeromonas hydrophila*

 Xiang-rong Gu⁺, Sylvie Giroux and Robert Cedergren*

 Département de Biochimie, Université de Montréal, Montréal, Québec H3C 3J7, Canada
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Using a labelled DNA fragment containing the *argT* operon of *E. coli*, we have isolated and fully sequenced the corresponding operon in *Aeromonas hydrophila*, a member of the gamma subdivision of purple bacteria (1). The 3.3 kb *Bam*H1 fragment contains a cluster of four tRNA genes in the following order: 5'-tRNA^{Arg}-tRNA^{His}-tRNA^{Leu}-tRNA^{Pro}. This organization is identical to that found in *E. coli* (2) and *Salmonella* (3), but is unrelated to the operon from the vibrio, *Photobacterium phosphoreum* isolated with the same probe (4). A possible promoter is found 5' and a rho-independent terminator 3' to the tRNA gene clusters. In contrast to the *Salmonella* operon, which contains gene sequences identical to those of *E. coli*, each tRNA gene of the *Aeromonas* operon differs from those of *E. coli* (tRNA^{Arg} in 2 positions, tRNA^{His} in 7, tRNA^{Leu} in 11 and tRNA^{Pro} in 11 positions). Other nucleotide differences are found in the spacer regions.

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                                     p(-35)
1  CGATGGAAAAACAAGCGGTTGATTCTGCGAGATAAAAAAATAGTAGACAAGGTGGGTCCC
   p(-10)                                arg (CCG)
61  CATCATTAATATTGCGCCCCGTTTCGACAGCGTAGCGCCCGTAGCTCAGCTGGATAGAGCG
121  CTGCCCTCCGGAGGCAGAGGTCACAGGTTCTCGAATCCTGTCGGGGCCACCATCAAAGTGC
   his (GTG)
181  GCCGGTTAAGCGGGCGAGTTGAAGAACGAAAAACAGCTGTGGTGGCTGTAGCTCAGTTGGT
241  AGAGTCCCGGATTGTGATTCCGGTTGTCGTGGGTTTCGAGCCCCATCAGCCACCCCATTTT
   leu (CAG)
301  ACAGCTTGTTCAGGTATGCGAAGGTGGCGGAATTGGTAGACCGCGCTAGCTTCAGGTGTTAG
361  TGCCCCCGGGTGTGAGGGTTCGAGTCCCTCTCTTCGCCACCATACCTTGCTGTATGACGAG
   pro (TGG)
421  GATGACCGTTCATGGTCTCTTTGTGTTTTGAAAAGAAAGCTTTTTTAAAGCCTCGGTGA
481  TTAGCGCAGCCCGGTAGCGCATCTGGTTTGGGACCAGAGGGTCAAAGGTTTCAATCCTTT
   term.                                term.
541  ATCACCGACCACATTTCTGAAAAACCCCGCTCAGCGGGGTTTTTTTGTCTTCTGTCTGCTG
601  CCAGCCTGCTGCCGCAGGTTT
  
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*To whom correspondence should be addressed

⁺On leave from the Shanghai Institute of Biochemistry, Shanghai, China

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