

The tRNA Genes of *E. coli*

Gene: *proL* (earlier called *proW*)

Gene Product: proline tRNA 2

Nucleotide count: transcript: 127
gene product: 77

Gene Product Function: adapter in protein synthesis, is
aminoacylated with proline and binds to the ribosome in
response to its codon on the mRNA.
Codon: CCC/U.
Anticodon: ggg.

Map Position: 49.2 min or 2290 Kbp

Gene cluster: None -- a single gene

Neighboring Genes: Upstream: *rplY*
Downstream: *narP*

Promoter sequence: ttgcaatcggtgtggaaaacggtagtattagcag
-35 -10 +1

Terminator sequence: aaaaaaccaacccttacggtttggttttttt

GenBank AN(s): **X52793** [Internet site(s): GenBank through NCBI:
<http://www.ncbi.nlm.nih.gov>]

Sequence:

```
1  cgttttatcg ctaactgatt aattataaat cagttagcga aatatcttac ttgcaatcgg
61  tgtggaaaac ggtagtatta gcagccacga gtcggcacgt agcgagcct ggtagcgcac
121 cgtcatgggg tgtcgggggt cggaggttca aatcctctcg tgccgaccaa aaatcccaag
181 aaaaaaccaa cccttacggt tggttttttt atatctgcaa ttaattcgat aaacagaccg
241 tgacacatca cagcctgttt attttctgtt atcagaacgt ccagaccaca cccgcctgag
```

The *proL* gene is underlined, promoter and terminator are in italics.

References: Komini, Y., Adachi, T., Inokuchi, H., and Ozeki, H.
1990. Genomic organization and physical mapping of
the transfer RNA genes in *Escherichia coli* K-12.
J. Mol. Biol. **212**:579-598.

[two or three more should be included.]