

5 章 試 験

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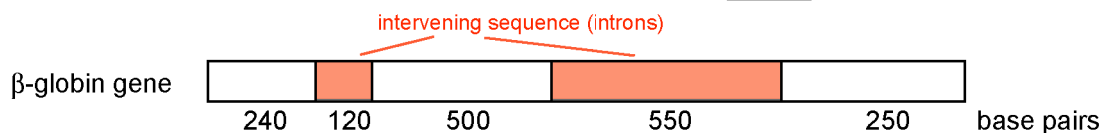
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1. 次の語句の日本語訳（略語不可）を各々の括弧内に書きなさい（各2点）。

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|-----------------------------|------------------------|
| 1. sugar-phosphate backbone | 1. (糖-リン酸骨格) |
| 2. base pair | 2. (塩基対) |
| 3. linear polymer | 3. (直鎖状高分子) |
| 4. gene expression | 4. (遺伝子発現) |
| 5. negative charge | 5. (負電荷) |
| 6. Eukaryotic gene | 6. (真核生物(の)遺伝子) |
| 7. melting temperature | 7. (融解温度) |
| 8. release factor | 8. (終結因子) |
| 9. transfer RNA | 9. (転移リボヌクレオチド(RNA)) |
| 10. superhelix | 10. (超らせん(+構造)) |
| 11. template | 11. (鋳型) |
| 12. reverse transcriptase | 12. (逆転写酵素) |
| 13. translation | 13. (翻訳) |
| 14. transcription | 14. (転写) |
| 15. replication | 15. (複製) |

2. 四角の中に単語あるいは数字を選択肢から選び入れて文章を完成させなさい（各2点）。

In bacteria, polypeptide chains are encoded by a continuous array of triplet codons in DNA. For many years, genes in higher organisms also were assumed to be continuous. The mosaic nature of eukaryotic genes was revealed by electron microscopic studies of hybrids formed between mRNA and a segment of DNA containing the corresponding gene. For example, the gene for the β chain of hemoglobin is interrupted within its amino acid-coding sequence by a long intervening sequence of 550 base pairs and a short one of 120 base pairs. Thus, the β -globin gene is split into three coding sequences.



語句選択肢： systematic, dynamic, mosaic, modes, codons, signals, mRNA, tRNA, (複数回使用有) rRNA, DNA, lower, higher, 120, 240, 250, 500, 550, bonds, kinks hybrids, introns, exons, one, two, three, five, continuous, replication