

## **Across:**

- 2. sequence at the beginning of the gene and immediately downstream of the promoter that gets transcribed but not translated
- 5. a transcription factor that is responsible for unwinding DNA at the promoter
- 7. the modification of the 3' end of eukaryotic gene by adding a .......
- 8. the eukaryotic RNA polymerase responsible for transcribing ribosomal RNA genes
- 11. the RNA sequence at the end (3') of the intron
- 13. the process of modifying the 5' end of a eukaryotic mRNA
- 14. the eukaryotic messenger RNA before applying modifications
- 15. parts of the gene that contain the code for amino acids
- 16. the molecular machinery that performs intron splicing
- 17. the process of removing non-coding sequence from eukaryotic mRNA
- 18. sequence upstream of the promoter and indirectly affect transcription
- 19. the RNA sequence at the beginning (5') of the intron

## Down:

- 1. the eukaryotic RNA polymerase responsible for transcribing protein coding genes
- 2. adding 7mG to the eukaryotic mRNA by ..... bond
- 3. the eukaryotic RNA polymerase mostly responsible for transcribing tRNA genes
- 4. sequence at the end of the gene that gets transcribed but not translated
- 5. a specific protein that recognizes and binds to the eukaryotic promoter
- 6. removing introns resulting in different combination of exons and different proteins
- 9. parts of the gene that have no code and gets removed
- 10. a specific sequence at the end of the gene that causes cleavage of the transcript and the termination of transcription
- 12. a sequence of the promoter located at -30
- 18. sequence upstream of the beginning of the gene where transcription factors attach before the start of transcription