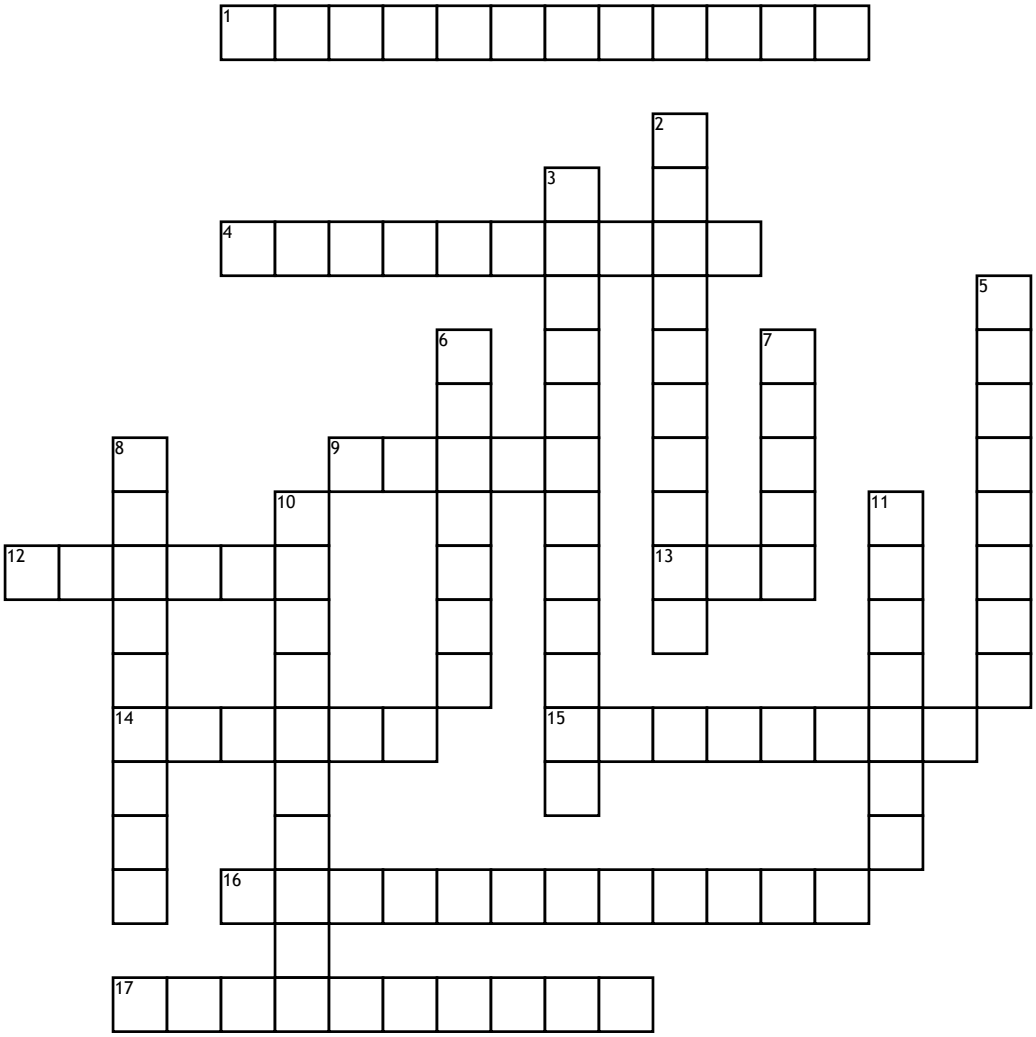
Name: _____ Date: _____

# Genetics Chapter 8 Homework



**Across**

**1.** ___-_____termination relies on the rho factor which occurs in prokaryotic termination.

**4.** The consensus sequences for _____ initiation are named TATA Box, CAAT and GC-rich, and are located at -25, -80, and -90, respectively.

**9.** _____ is the multi-subunit protein complex that binds to the eukaryotic consensus sequences.

**12.** The post translational modifications needed previous to eukaryotic termination include: 5' cap, Poly A tail, and _____ splicing.

**13.** In prokaryotic elongation_____ (how many) RNA polymerase(s) is/are needed.

**14.** The _____ intron structure is formed via the spliceosome.

**15.** The two types of regulatory sequences that work to either increase or decrease the level of transcription in a gene are _____ sequences and silencer sequences.

**16.** Attachment of a the _____ _____ to the RNA polymerase recognizes these consensus sequences in prokaryotes.

**17.** RNA Polymerases 1,2, and 3 are required for eukaryotic _____.

**Down**

**2.** The consensus sequences in prokaryotes are _____ _____ and -35.

**3.** Eukaryotic termination is called the _____ _____

**5.** The Rho factor has _____ activity which is needed to break H bonds between DNA and RNA.

**6.** In prokaryotes, Intrinsic termination is based on a termination sequence containing inverted repeats and a string of adenines to create a _____ loop. A series of Uracil's follow this structure, causing the polymerase to dissociate.

**7.** Eukaryotic termination occurs via a special _____ enzyme that digests the leftover transcript until it has reached the RNA polymerase II dissociates it from DNA.

**8.** Bacterial transcription occurs in the _____.

**10.** The first step in prokaryotic transcription is?

**11.** Eukaryotic transcription occurs in the _____.

## Word Bank

| | | | | |
|---|---|---|---|---|
| elongation | eukaryotic | RNase | one | sigma subunit |
| TFIID | Initiation | helicase | nucleus | Cytoplasm |
| Intron | Pribnow Box | hairpin | enhancer | Torpedo Model |
| Lariat | Rho-dependent | | | |

Create your own puzzle at WordMint.com or print one of our 500,000+ pre-made word searches, crosswords, and more.