Name:												Date:
Reading Guide: Chapter 15 - Genes and Proteins (OpenStax Biology 2E)												Met
	hat is the		•								<u> </u>	Phe
2. How many nucleotides are needed to code for one amino acid?												_ 7
3. Why is the genetic code said to be "degenerate?"												
<ul><li>4. What nonsense codon?</li><li>5. Use Figure 15.4 to indicate the amino acid formed by each codon:</li></ul>												
J. C	_						-			AGU_		AUGUUUCGA
6. V	Vhy is deg									,		Ribosome
15.2	Prokaryo	ote Trar	nscriptio	on								_
7. H	low is a b	acteria d	chromos	some di	fferent t	from eul	karyote	s?				
	n mRNA, t											
9. lı	ndicate the	e mRNA	A seque	nce cod	le by th	e DNA s	equen	ce show	n belov	w (use ba	ase-pair rule)	
		1									_	
	DNA	Α	Т	Α	G	С	Α	Т	Α	G		
	RNA											
	What prot What doe				-	-	_					
15.3	Eukaryo	te Trans	scriptio	n								
12	What are	transcr	iption fa	ctors?								
	How man		-				-					
	In eukary		-	-								
15.	Octamer	and GC	-rich bo	xes are	likely fo	ound on	what ty	pe of g	enes? _		<del></del>	
15.4	RNA Pro	cessin	g									
16	What are	the cod	ina seai	iences	called?	,	V	/hat are	the no	ncodina (	one called? _	
	What hap											
19.	3. What does the enzyme poly-A- polymerase do?  9. What is the role of the poly-A tail?											
20.	Scientists suggest what reason for the existence of introns?											
	What occ											
	What is th											
15.5	Riboson	nes and	l Proteii	n Synth	nesis							
23.	What are	the two	subunit	s of the	riboso	me calle	ed?					
24.	What are the two subunits of the ribosome called?											
25	What ie th	ne sianif	icance d	of the A	HG sec	illence c	n mRN	142				