

TEAM 1

Protein 1	
DNA	CCA-TAG
mRNA	
Amino Acids	

Protein 4	
DNA	AGG-TAA
mRNA	
Amino Acids	

Protein 2	
DNA	CAC-GTI
mRNA	
Amino Acids	

Protein 5	
DNA	TAG-ATG
mRNA	
Amino Acids	

Protein 3	
DNA	ACG-TGA
mRNA	
Amino Acids	

Amino Acid Sequence = Protein (Trait)
<i>Methionine – Tyrosine</i> = Protein A (arms)
<i>Glycine – Methionine</i> = Protein B (eyes)
<i>Serine – Isoleucine</i> = Protein C (ears)
<i>Cysteine - Threonine</i> = Protein D (feet)
<i>Valine – Glutamine</i> = Protein E (mouth)

TEAM 2

Protein 6	
DNA	AGG – CGC
mRNA	
Amino Acids	

Protein 9	
DNA	TAG – CAT
mRNA	
Amino Acids	

Protein 7	
DNA	CTG – ATG
mRNA	
Amino Acids	

Protein 10	
DNA	GTT – ACG
mRNA	
Amino Acids	

Protein 8	
DNA	TGG – GCA
mRNA	
Amino Acids	

Amino Acid Sequence = Protein (Trait)
<i>Glutamine – Cysteine</i> = Protein A (arms)
<i>Aspartic Acid – Methionine</i> = Protein B (eyes)
<i>Serine – Alanine</i> = Protein C (ears)
<i>Isoleucine - Valine</i> = Protein D (feet)
<i>Threonine – Arginine</i> = Protein E (mouth)

TEAM 3

Protein 11	
DNA	CGA-AGG
mRNA	
Amino Acids	

Protein 14	
DNA	CAG-GTG
mRNA	
Amino Acids	

Protein 12	
DNA	CCT-TAC
mRNA	
Amino Acids	

Protein 15	
DNA	AAC-GTT
mRNA	
Amino Acids	

Protein 13	
DNA	TGC-TTC
mRNA	
Amino Acids	

Amino Acid Sequence = Protein (Trait)
<i>Glycine – Methionine</i> = Protein A (arms)
<i>Leucine – Glutamine</i> = Protein B (eyes)
<i>Threonine – Lysine</i> = Protein C (ears)
<i>Valine - Histidine</i> = Protein D (feet)
<i>Alanine – Serine</i> = Protein E (mouth)

TEAM 1 ANSWER KEY

Protein 1	
DNA	CCA – TAG
mRNA	GGU – AUG
Amino Acids	<i>Glycine – Methionine</i>

Protein 4	
DNA	AGG – TAA
mRNA	UCC – AUU
Amino Acids	<i>Serine - Isoleucine</i>

Protein 2	
DNA	CAC – GTI
mRNA	GUG – CAA
Amino Acids	<i>Valine – Glutamine</i>

Protein 5	
DNA	TAG – ATG
mRNA	AUG – UAC
Amino Acids	<i>Methionine - Tyrosine</i>

Protein 3	
DNA	ACG – TGA
mRNA	UCG – ACU
Amino Acids	<i>Cysteine – Threonine</i>

Amino Acid Sequence = Protein (Trait)
<i>Methionine – Tyrosine</i> = Protein A (arms)
<i>Glycine – Methionine</i> = Protein B (eyes)
<i>Serine – Isoleucine</i> = Protein C (ears)
<i>Cysteine - Threonine</i> = Protein D (feet)
<i>Valine – Glutamine</i> = Protein E (mouth)

TEAM 2 ANSWER KEY

Protein 6	
DNA	AGG – CGC
mRNA	UCC – GCG
Amino Acids	<i>Serine – Alanine</i>

Protein 9	
DNA	TAG – CAT
mRNA	AUC – GUA
Amino Acids	<i>Isoleucine - Valine</i>

Protein 7	
DNA	CTG – ATG
mRNA	GAC – UAC
Amino Acids	<i>Aspartic Acid – Tyrosine</i>

Protein 10	
DNA	GTT – ACG
mRNA	CAA – UGC
Amino Acids	<i>Glutamine - Cysteine</i>

Protein 8	
DNA	TGG – GCA
mRNA	GAC – UAC
Amino Acids	<i>Threonine – Arginine</i>

Amino Acid Sequence = Protein (Trait)
<i>Glutamine – Cysteine</i> = Protein A (arms)
<i>Aspartic Acid – Tyrosine</i> = Protein B (eyes)
<i>Serine – Alanine</i> = Protein C (ears)
<i>Isoleucine - Valine</i> = Protein D (feet)
<i>Threonine – Arginine</i> = Protein E (mouth)

TEAM 3 ANSWER KEY

Protein 11	
DNA	CGA – AGG
mRNA	GCU – UCC
Amino Acids	<i>Alanine – Serine</i>

Protein 14	
DNA	CAG – GTG
mRNA	GUC – CAC
Amino Acids	<i>Valine - Histidine</i>

Protein 12	
DNA	CCT – TAC
mRNA	GGA – AUG
Amino Acids	<i>Glycine – Methionine</i>

Protein 15	
DNA	AAC – GTT
mRNA	UUG – CAA
Amino Acids	<i>Leucine - Glutamine</i>

Protein 13	
DNA	TGC – TTC
mRNA	ACG – AAG
Amino Acids	<i>Threonine - Lysine</i>

Amino Acid Sequence = Protein (Trait)
<i>Glycine – Methionine</i> = Protein A (arms)
<i>Leucine – Glutamine</i> = Protein B (eyes)
<i>Threonine – Lysine</i> = Protein C (ears)
<i>Valine - Histidine</i> = Protein D (feet)
<i>Alanine – Serine</i> = Protein E (mouth)