

A)

R	Q	R	L	L										
C	G	T	C	A	G	C	G	G	C	T	G	C	T	G

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C	G	T	C	A	G	T	A	G	C	T	G	C	T	G
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R	Q	W	L	L										
C	G	T	C	A	G	T	G	G	C	T	G	C	T	G

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R	Q	Q	L	L										
C	G	T	C	A	G	C	A	G	C	T	G	C	T	G

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R	Q	*	L	L										
C	G	T	C	A	G	T	A	G	C	T	G	C	T	G

B)

S	S	S	P	P	P	P	P	L	Q	F	H															
T	C	A	T	C	C	T	C	C	C	C	T	C	C	T	C	T	G	C	A	G	T	T	T	C	A	T

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T	C	-	-	C	C	T	C	-	-	-	C	C	C	C	C	T	C	C	T	C	C	T	C	C	T	C	T	G	C	A	G	T	T	T	C	A	T
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T	C	-	-	C	C	T	C	C	C	C	C	T	C	C	C	C	T	C	C	T	C	C	T	C	C	T	G	C	A	G	T	T	T	C	A	T
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T	C	-	-	C	C	T	C	-	-	-	C	C	C	C	C	T	C	C	T	C	C	T	C	C	T	G	C	A	G	T	T	T	C	A	T
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T	C	-	-	C	C	T	C	-	-	-	C	C	C	C	C	T	C	C	T	C	C	T	C	C	T	G	C	A	G	T	T	T	C	A	T
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C)

D	G	T	Q	P	G	H															
G	A	T	G	G	A	A	C	C	C	A	G	C	C	T	G	G	G	C	A	C	G

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G	A	T	G	G	A	A	C	C	C	A	G	C	C	T	G	G	G	C	A	C	A
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D	I	S	D	S	L	T													
A	T	A	T	T	T	C	A	G	A	T	T	C	G	C	T	A	A	C	A

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A	G	A	T	T	T	C	A	G	A	T	T	C	G	C	T	A	A	C	A
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D	G	T	Q	P	G	H															
G	A	T	G	G	A	A	C	C	C	A	G	C	C	T	G	G	G	C	A	C	A

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D	G	T	Q	P	G	H															
G	A	T	G	G	A	A	C	C	C	A	G	C	C	T	G	G	G	C	A	C	G

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D	I	S	D	S	L	T													
A	G	A	T	T	T	C	A	G	A	T	T	C	G	C	T	A	A	C	A