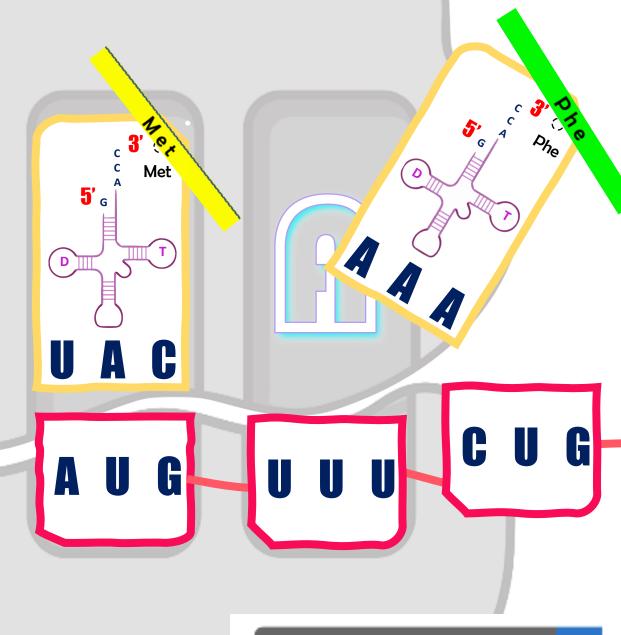






ISINTETIZA, PIBOSOMA!

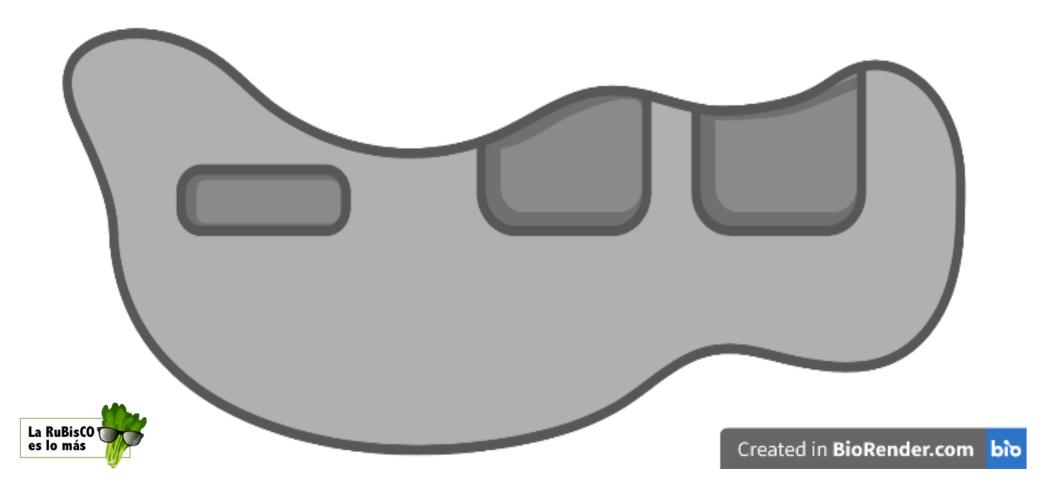


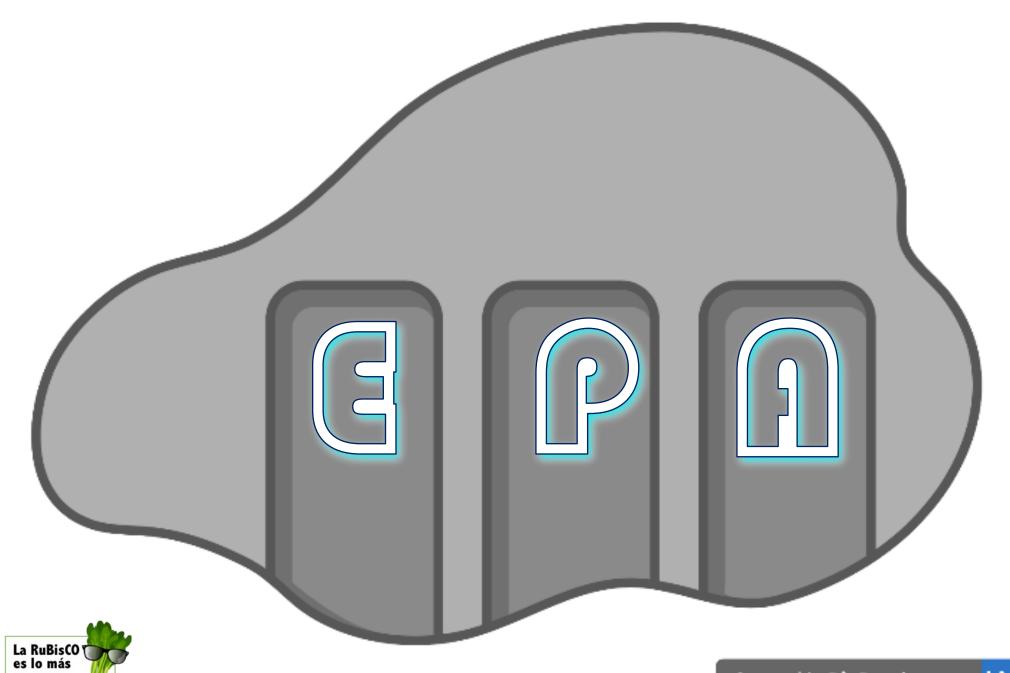
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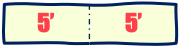
- 1. El ARNm maduro se acopla a la subunidad pequeña del ribosoma
- 2. Posteriormente se une la subunidad grande del ribosoma
- 3. La proteína siempre se sintetiza leyendo el ARNm en sentido $5' \rightarrow 3'$



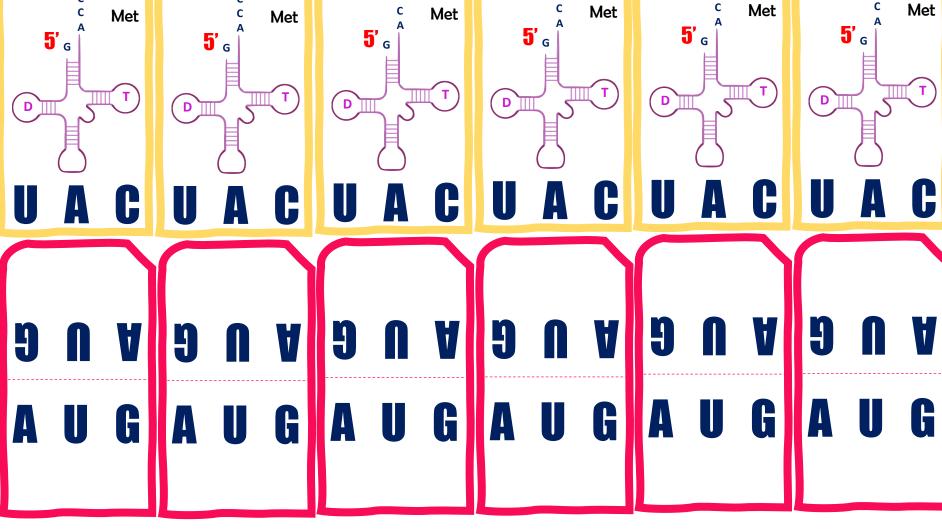
- 4. En el extremo 5' el ARNm tiene siempre el codón de iniciación AUG, que se coloca en el sitio P (peptidil)
- 5. El ARNt con el anticodón UAC se activa, uniéndose al aminoácido metionina (Met) y gastando 1 ATP
- 6. El anticodón UAC del Met-ARNt es complementario al codón AUG y se coloca en el sitio P
- 7. El aa2-ARNt activado cuyo anticodón es complementario al siguiente codón, se sitúa en el sitio A (aminoacil)
- 8. La Met se suelta del ARNt y se une mediante un enlace peptídico al aa2 del ARNt que está en el sitio A
- 9. La cadena de ARNm se desplaza, dejando al Met-aa2-ARNt en el sitio P y el ARNt vacío va al sitio E (exit)
- 10. Hay un codón nuevo de ARNm en el sitio A que es ocupado por el aa-ARNt con el anticodón complementario
- 11. La Met-aa2 se suelta del ARNt que hay en el sitio P y se une al aa3 del ARNt que está ahora en el sitio A
- 12. La cadena de ARNm se desplaza, dejando al Met-aa2-aa3-ARNt en el sitio P y el ARNt ya vacío en el sitio E
- 13. Entra al sitio A un nuevo aa4-ARNt con el anticodón correspondiente y, de esta forma, continúa leyéndose todo el ARNm
- 14. La cadena polipeptidica continuará formándose hasta que llegue un codón de terminación (STOP) al sitio A que indicará el final de la traducción, soltando la proteína ya completa del último ARNt y liberándola del ribosoma











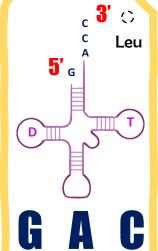
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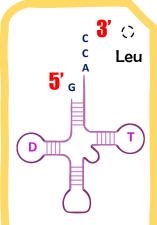
5′_G

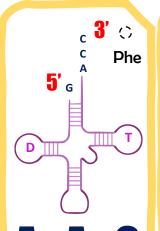
Leu

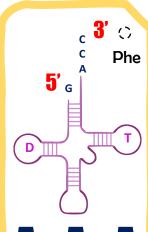


Leu









5′ _G

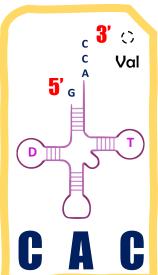
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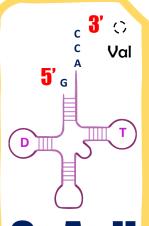
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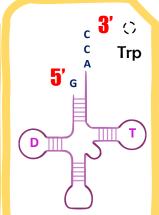


5′_G

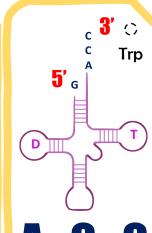
Lys







A C C



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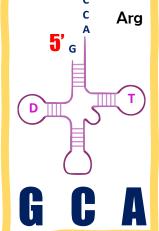
Arg

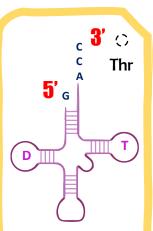
5′ _G

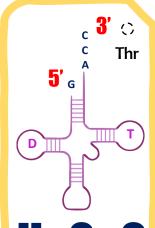


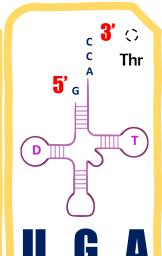
5′_G

Arg









5′ _G

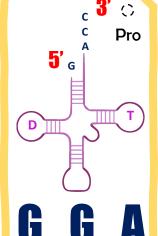
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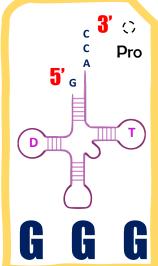
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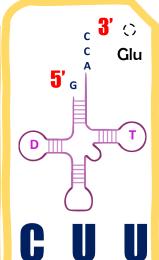
G U G

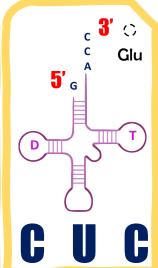
5′_G

His



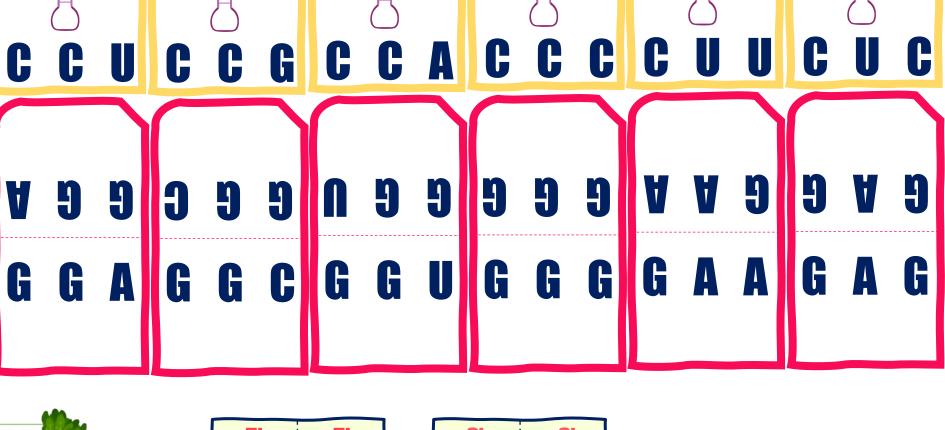


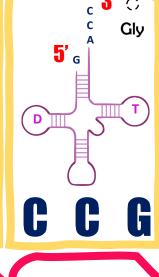








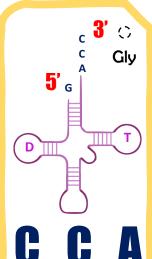


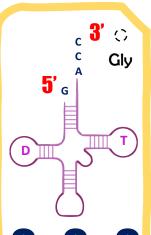


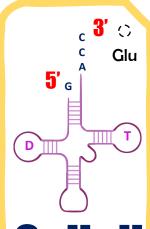
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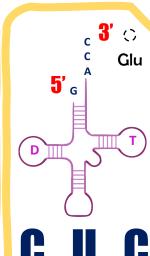
Gly

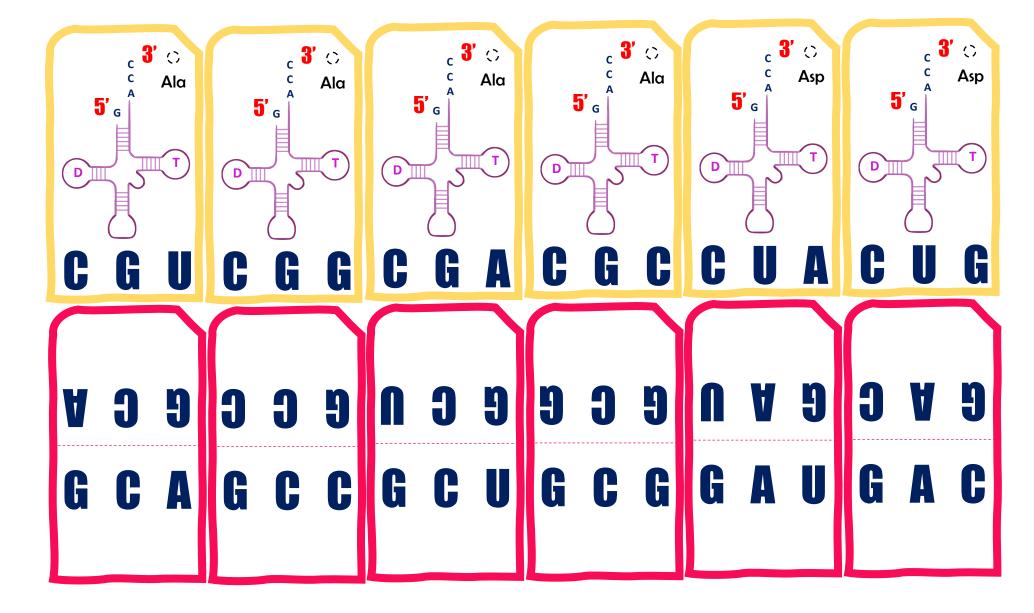
5′ _G



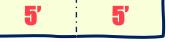


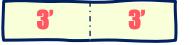








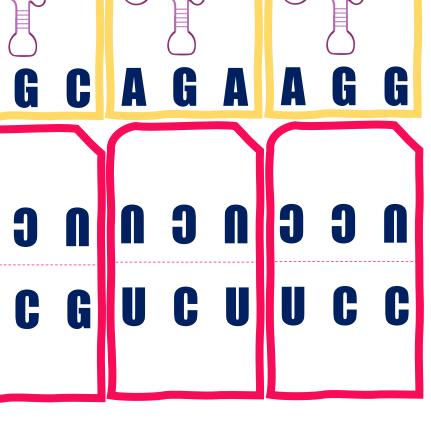


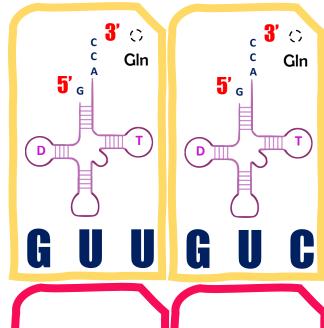


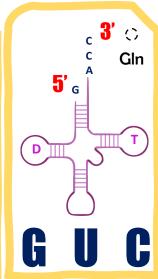


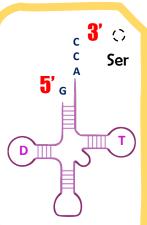


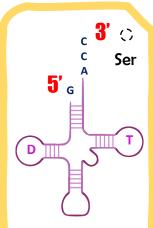


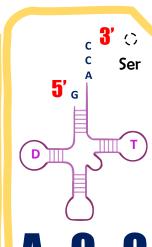








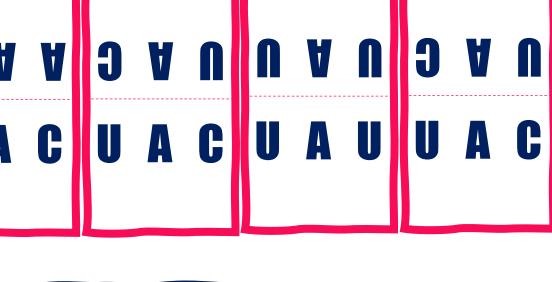


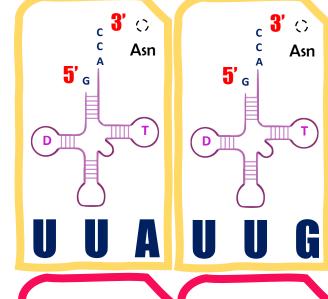


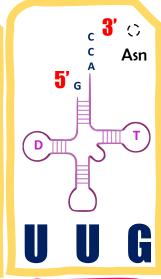


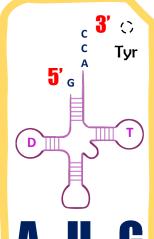


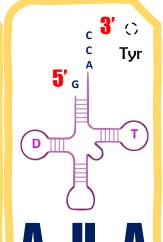


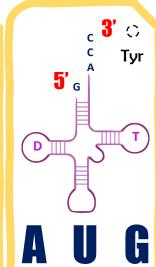


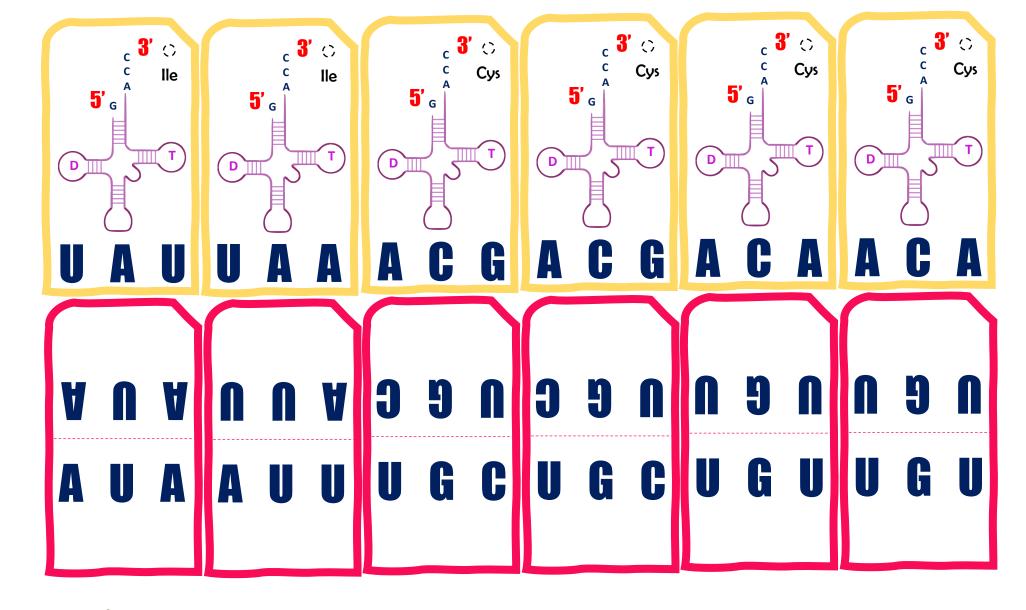




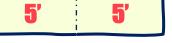


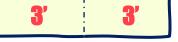


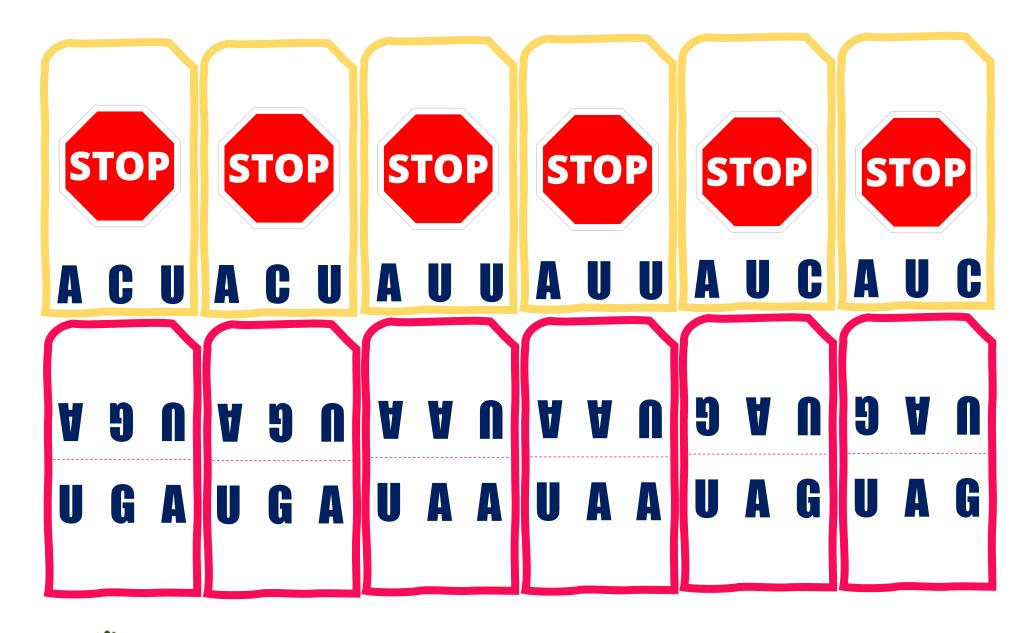




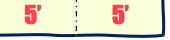


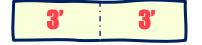


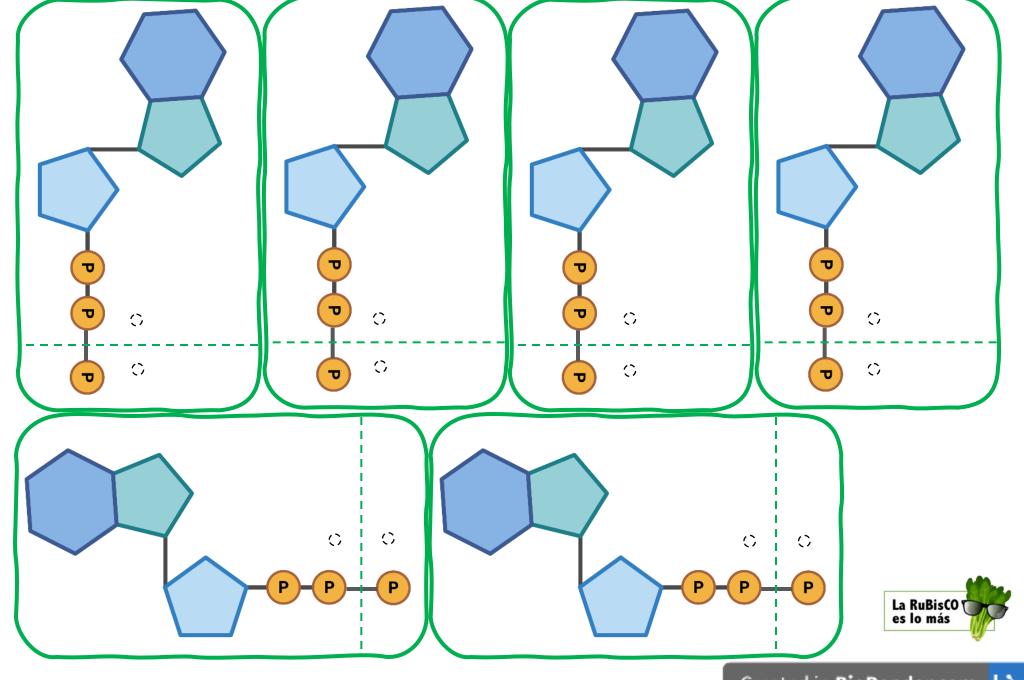












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