

Gauklerblume  
*Mimulus*



Bildquelle: Deutsche Wikipedia. User: Takwish

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Gauklerblume  
*Mimulus*

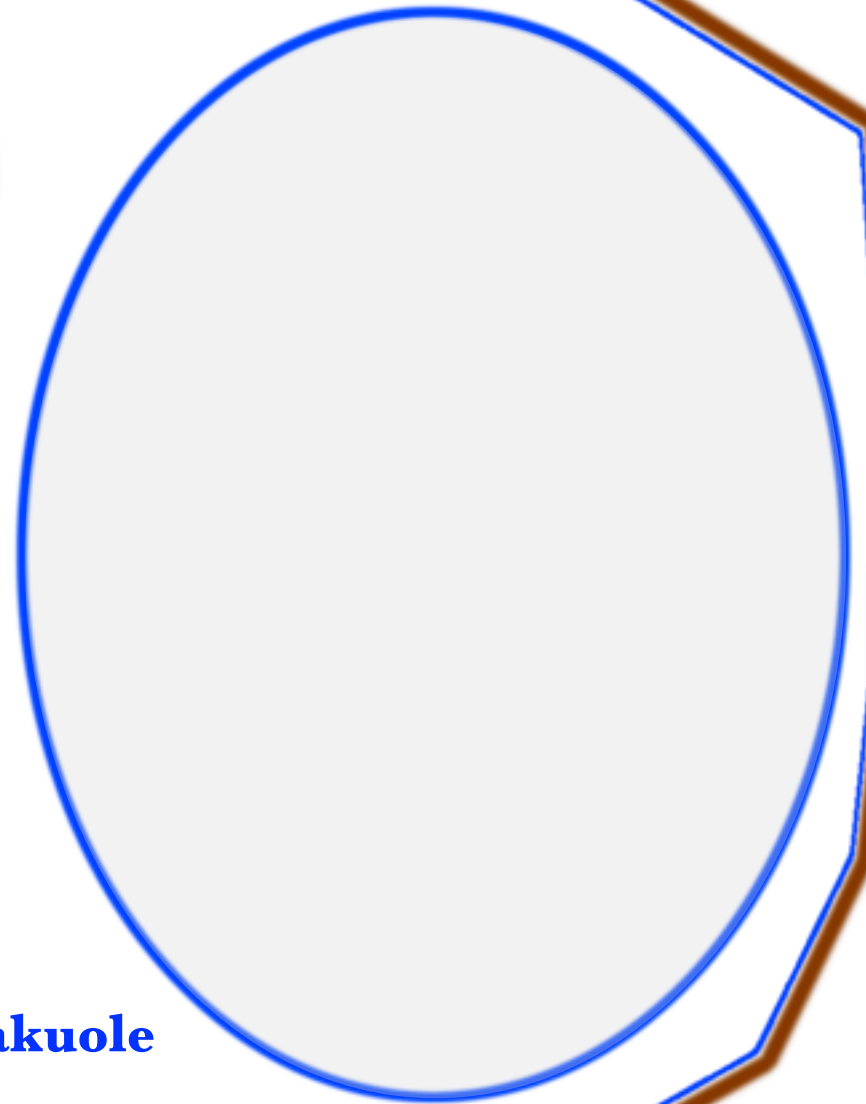
**Wie entsteht der rote  
Blütenfarbstoff?**

**Warum gibt es manchmal  
gelbe oder farblose Mutanten  
dieser Pflanze?**

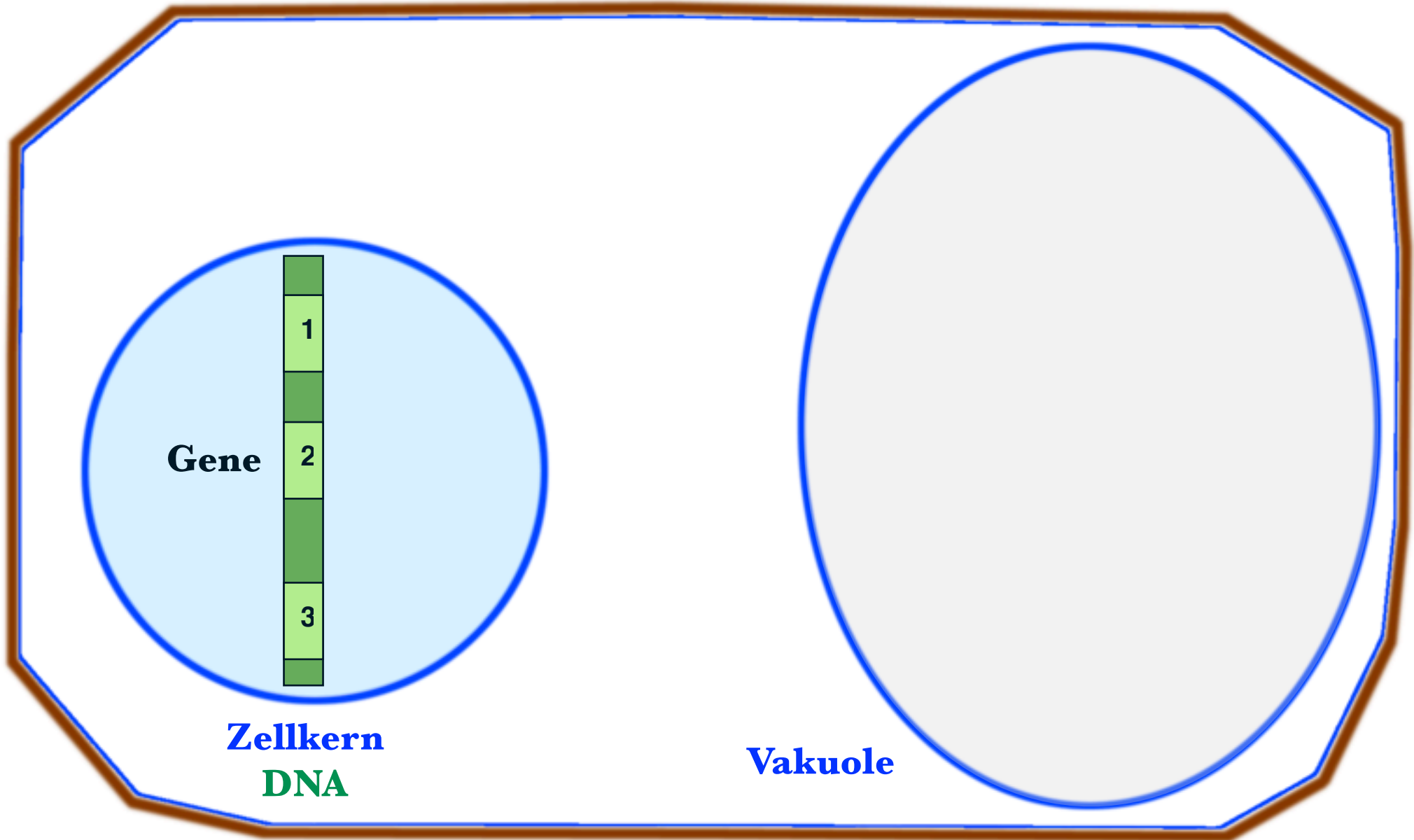
**stark vereinfachte Darstellung  
einer Blüten-Zelle**

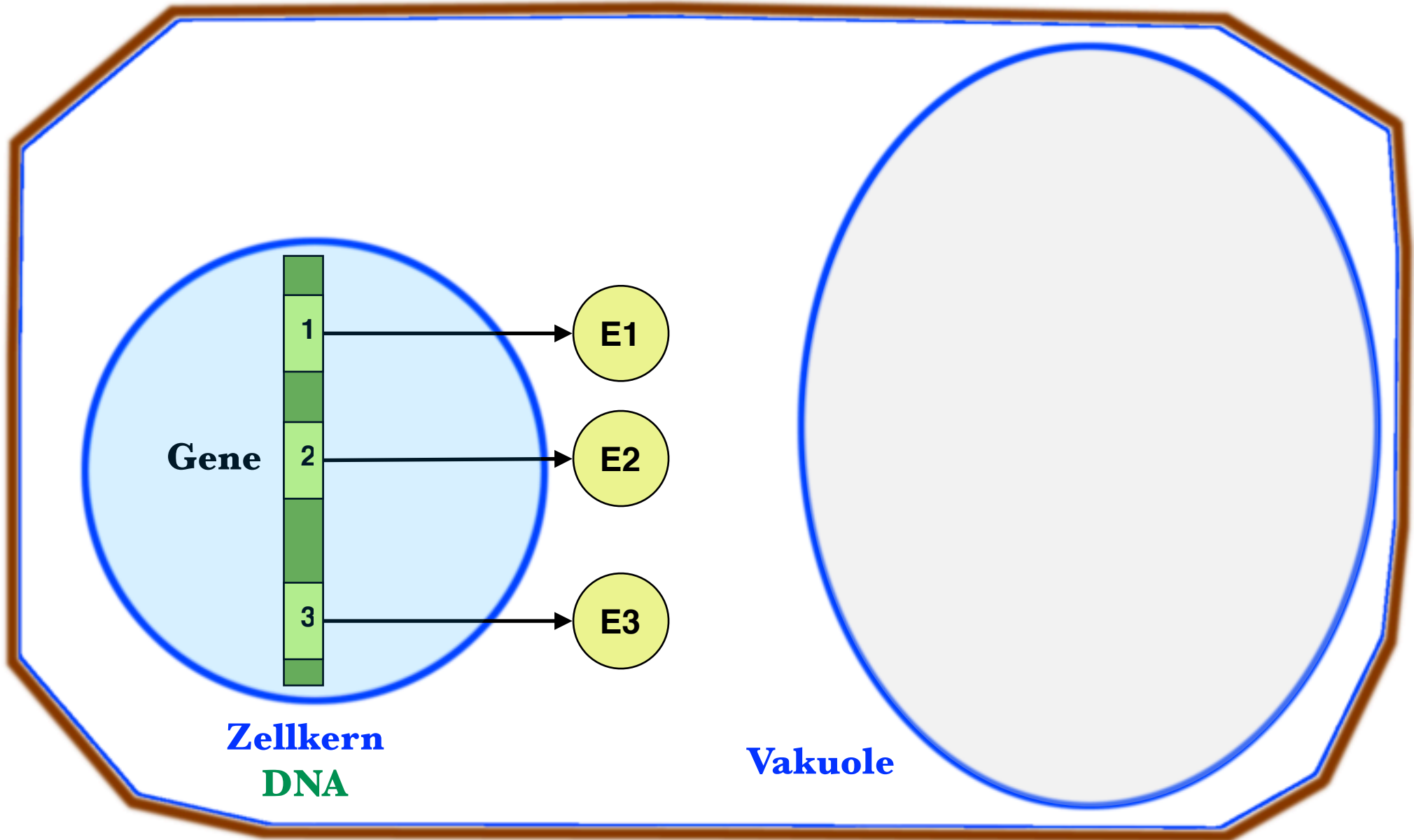


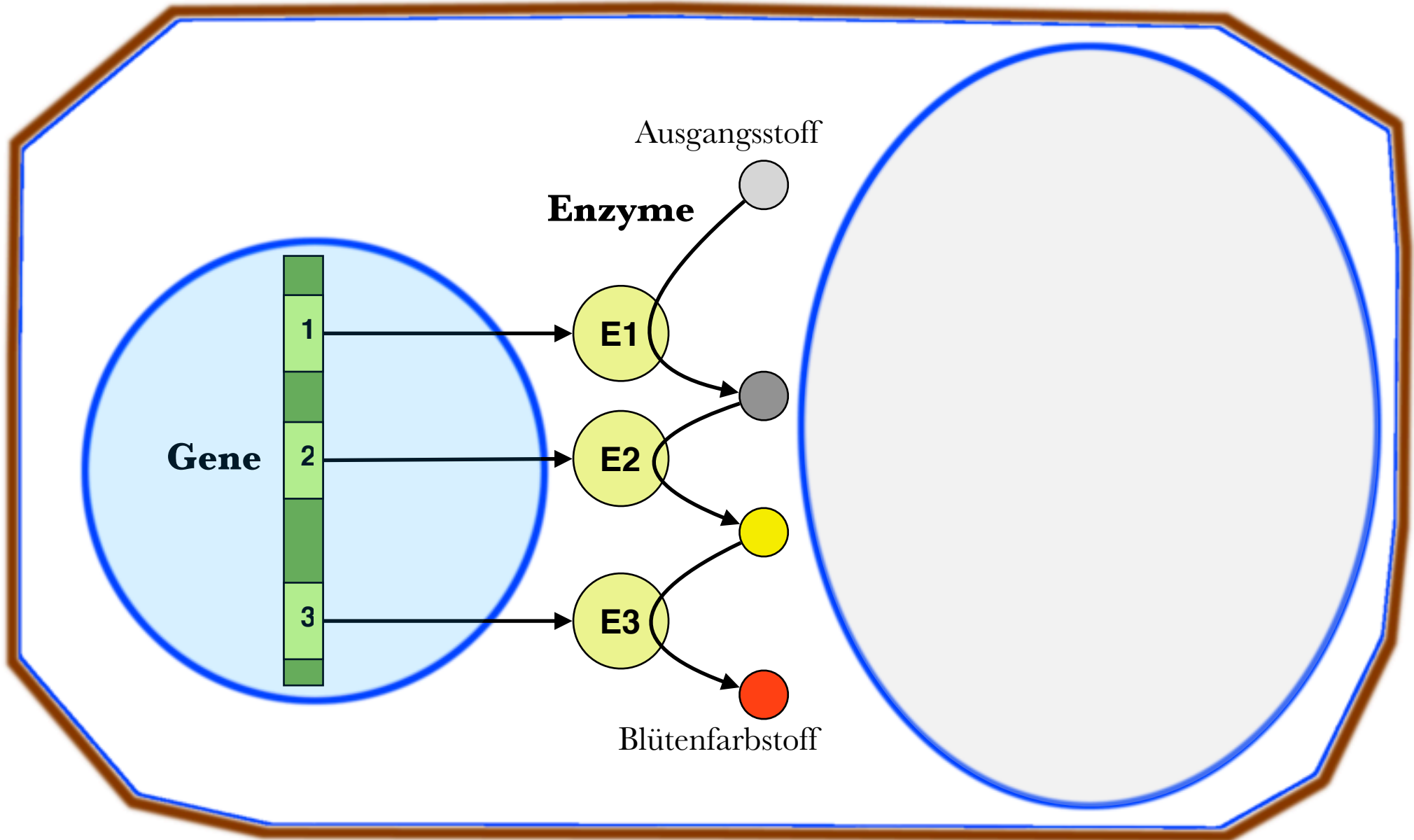
**Zellkern**

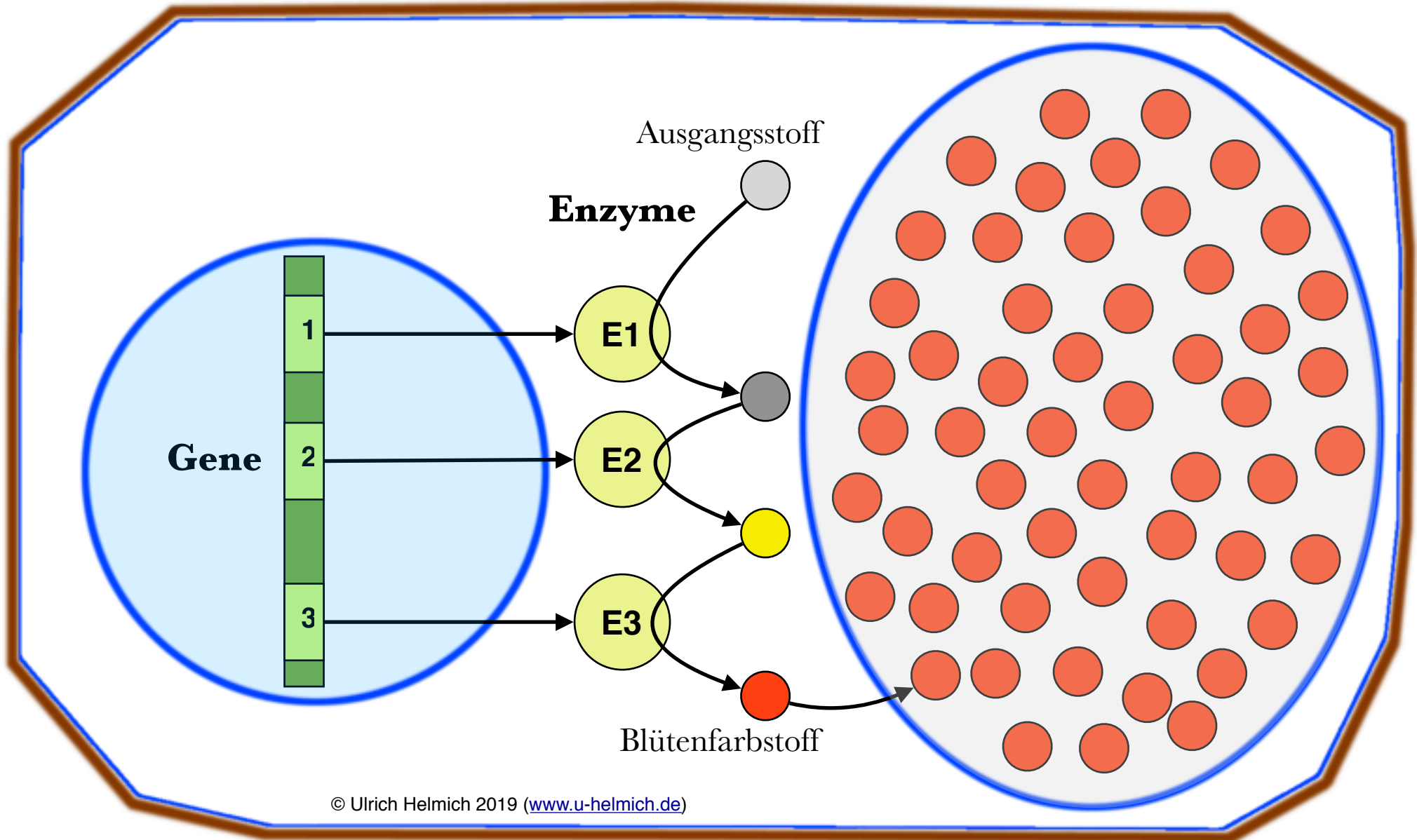


**Vakuole**





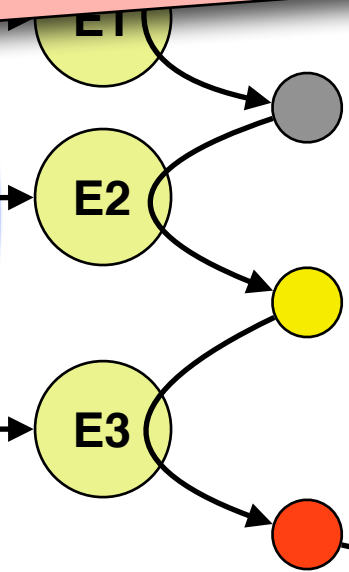




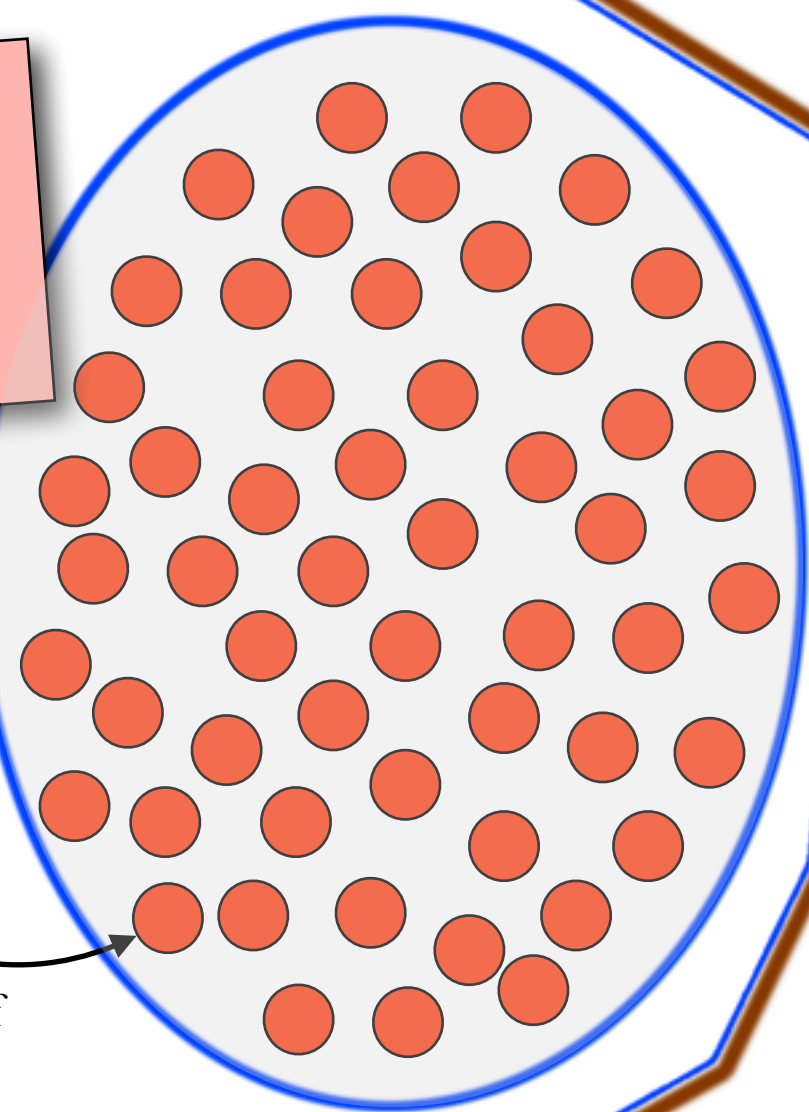
### Zwischenfrage

Durch welchen Mechanismus kann sich ein Farbstoff auch ohne aktiven Transport in der Vakuole anreichern?

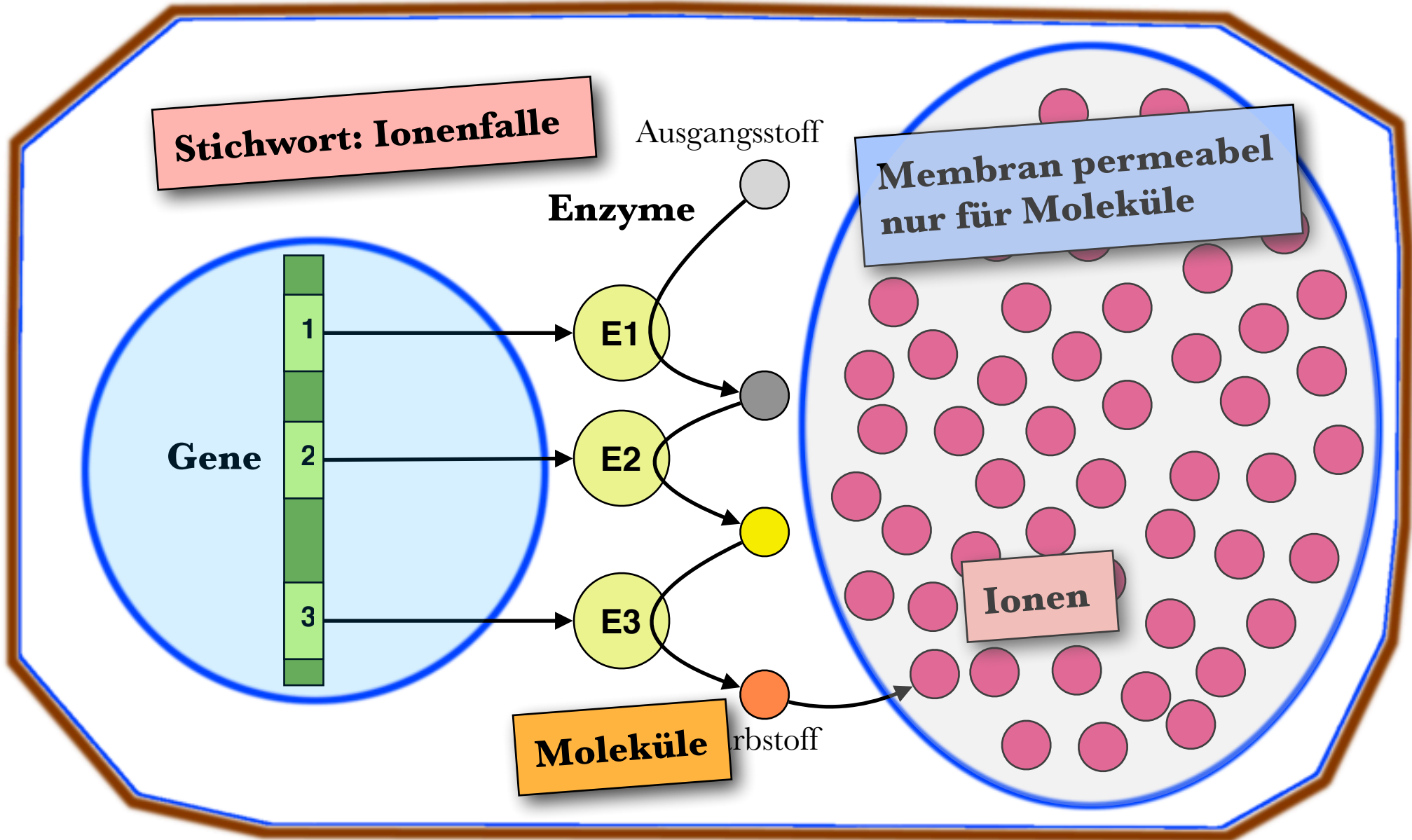
Gene



Blütenfarbstoff

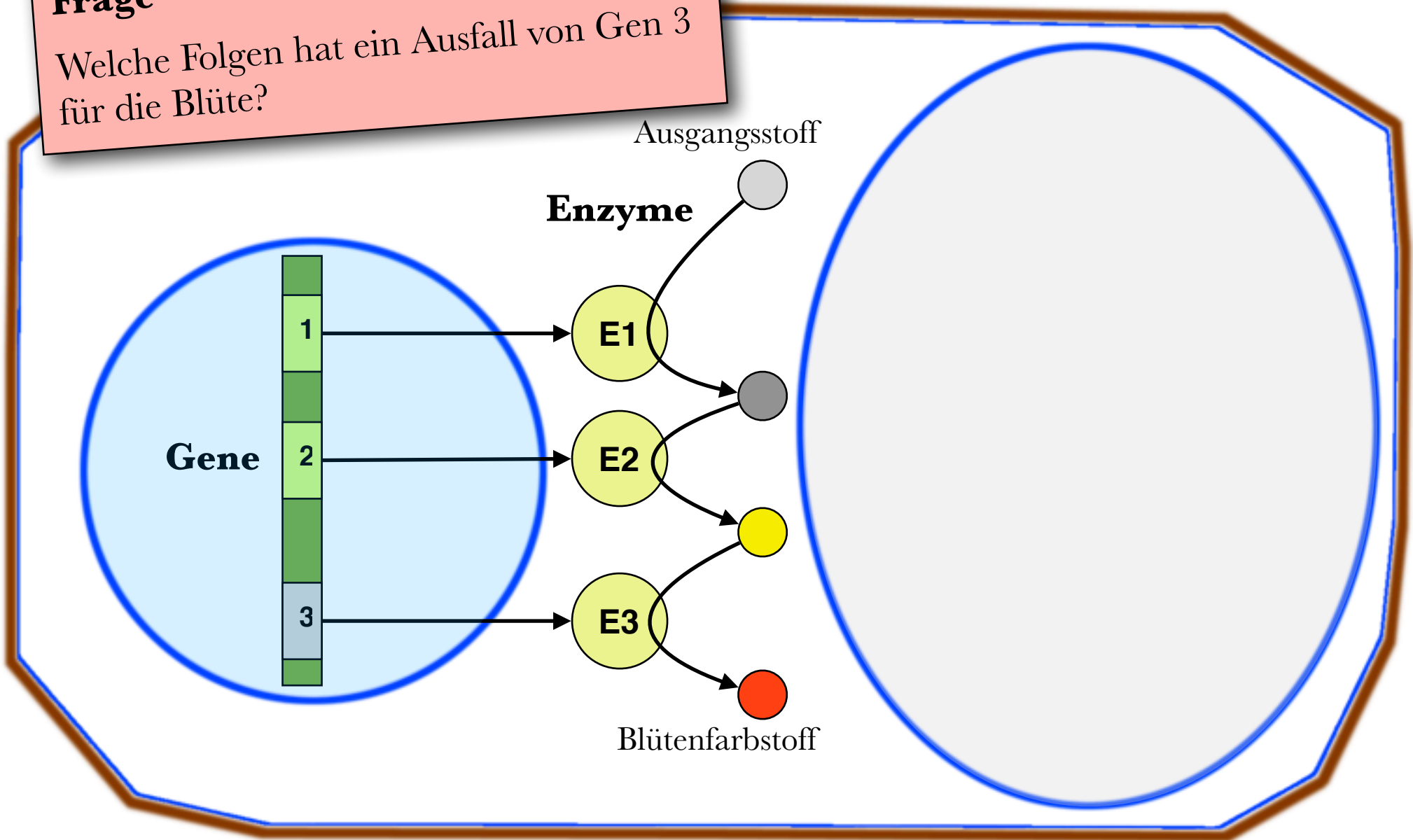


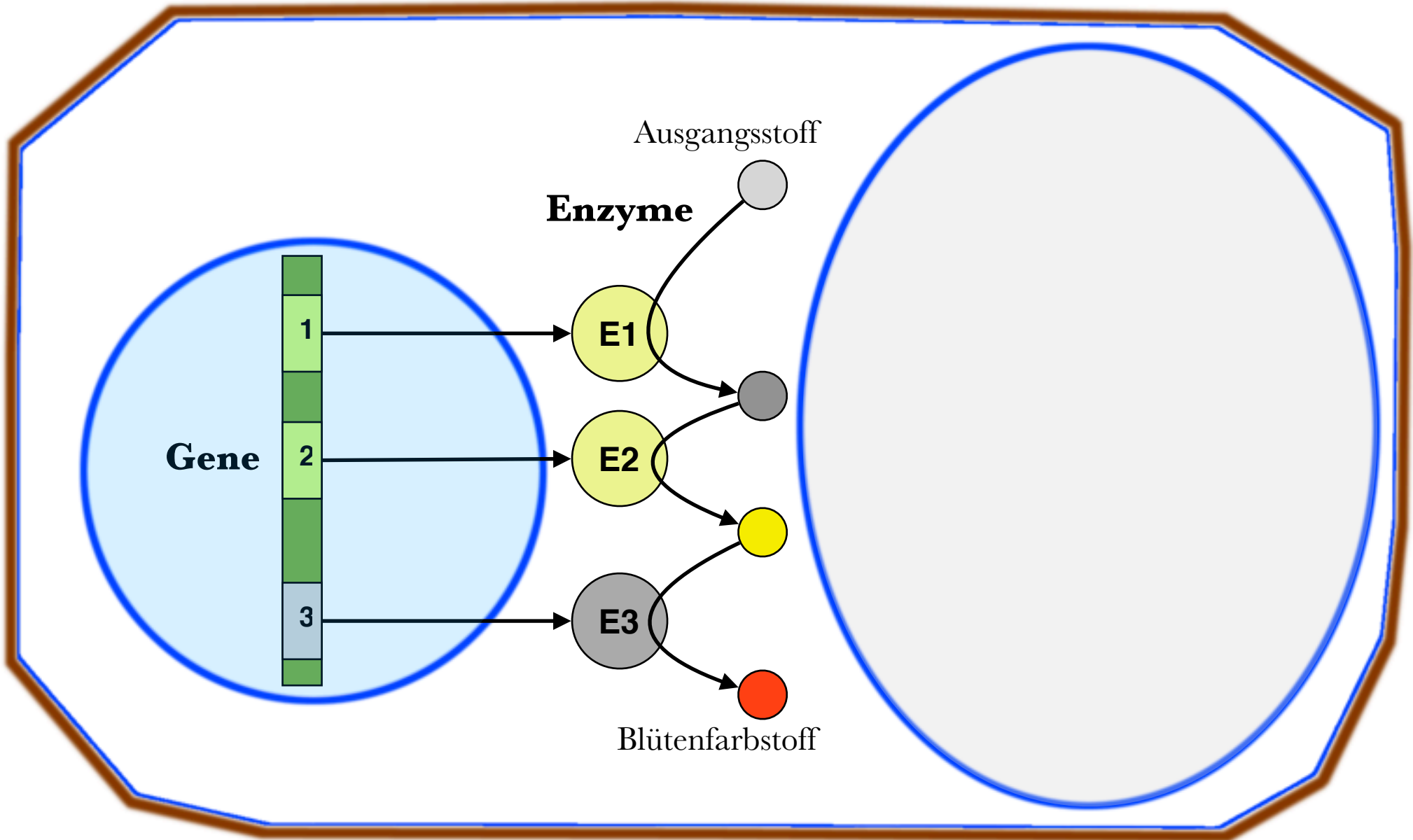


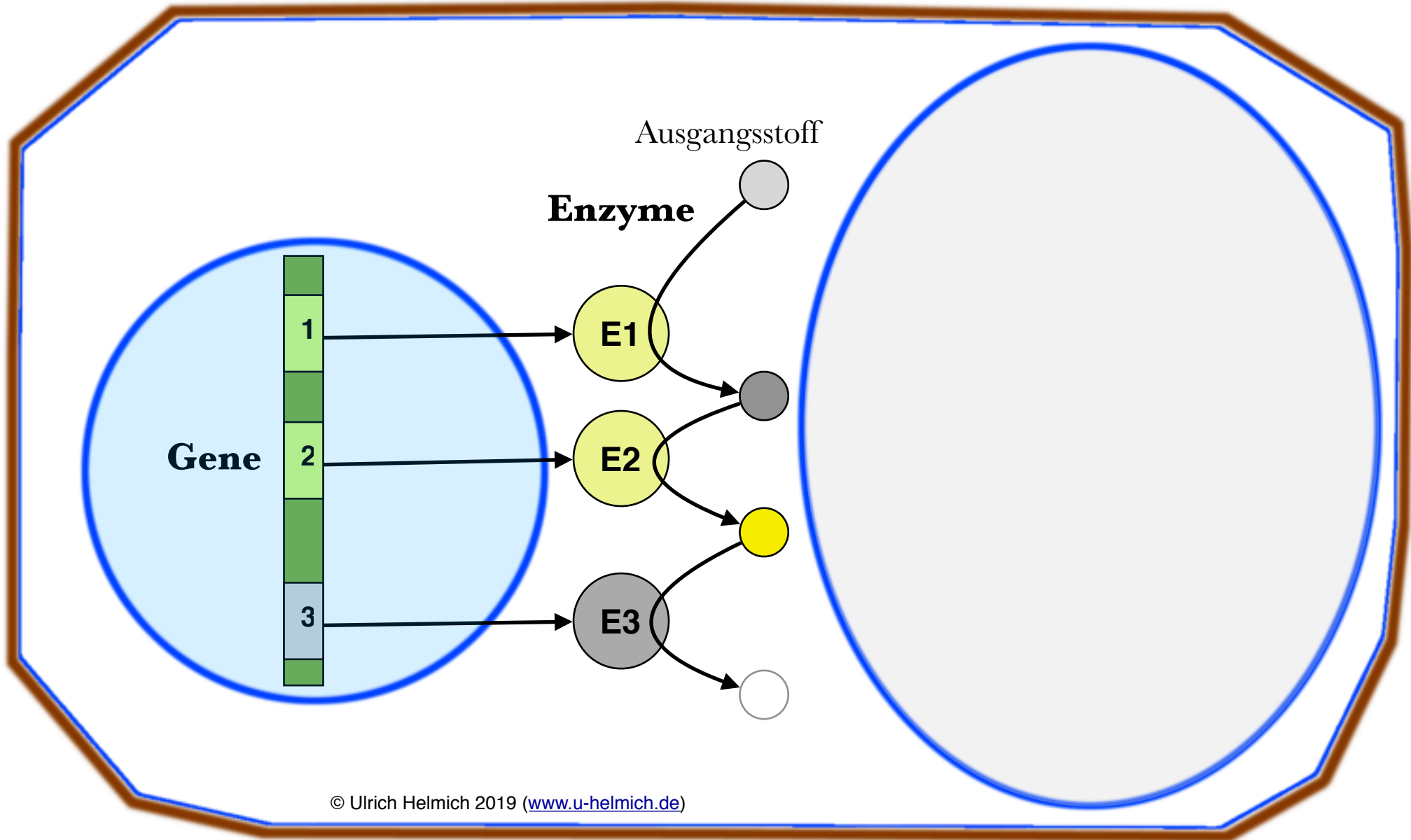


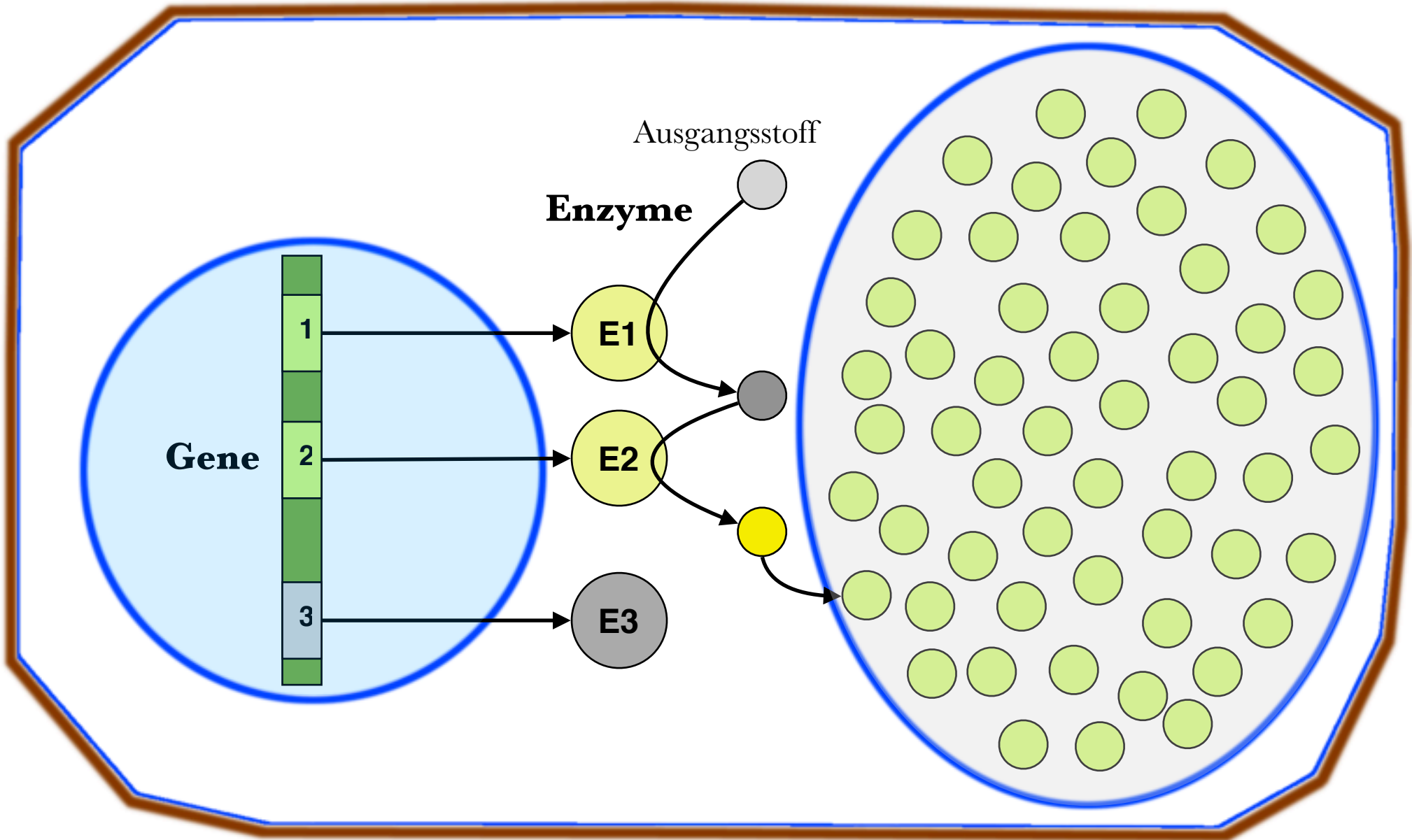
**Frage**

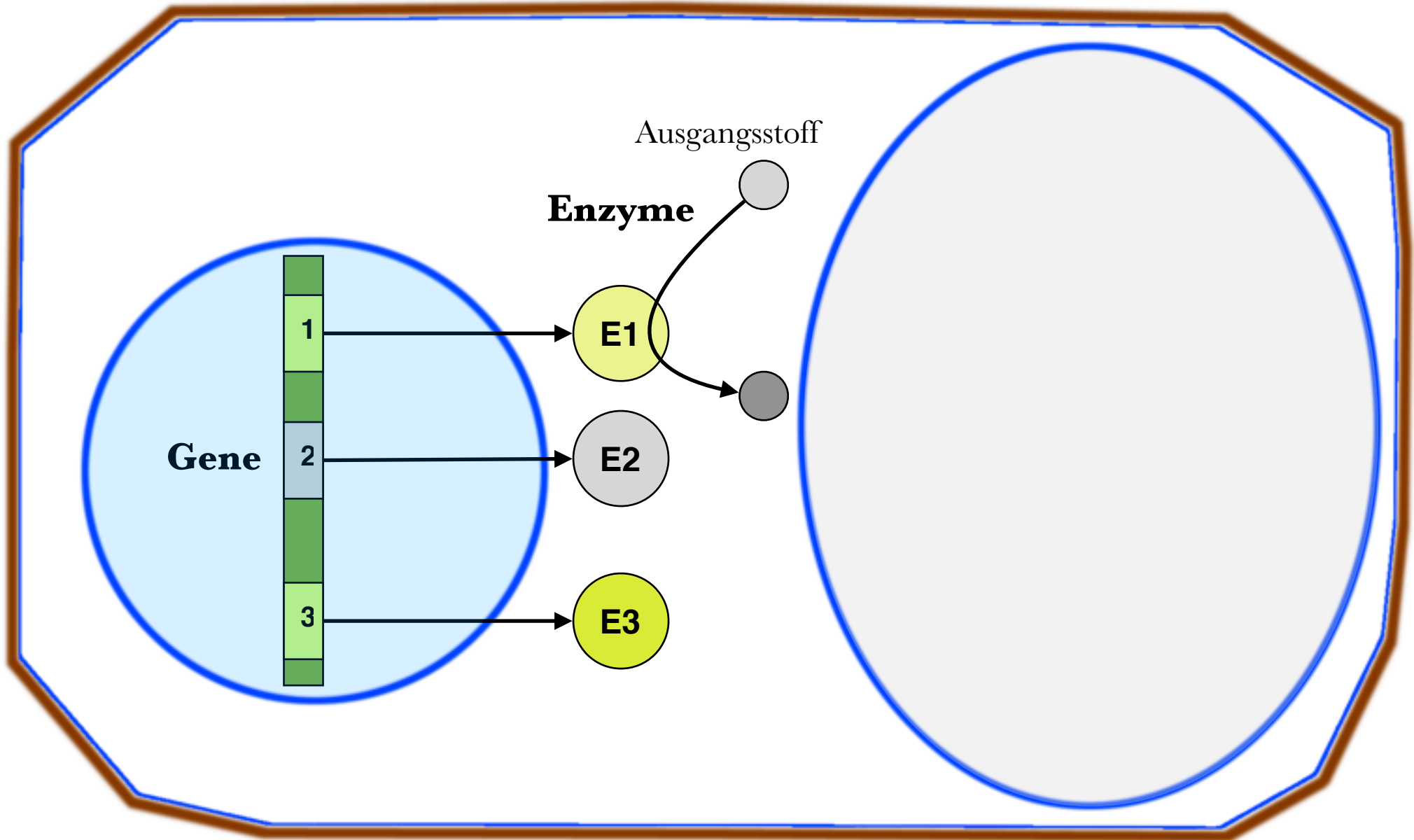
Welche Folgen hat ein Ausfall von Gen 3 für die Blüte?

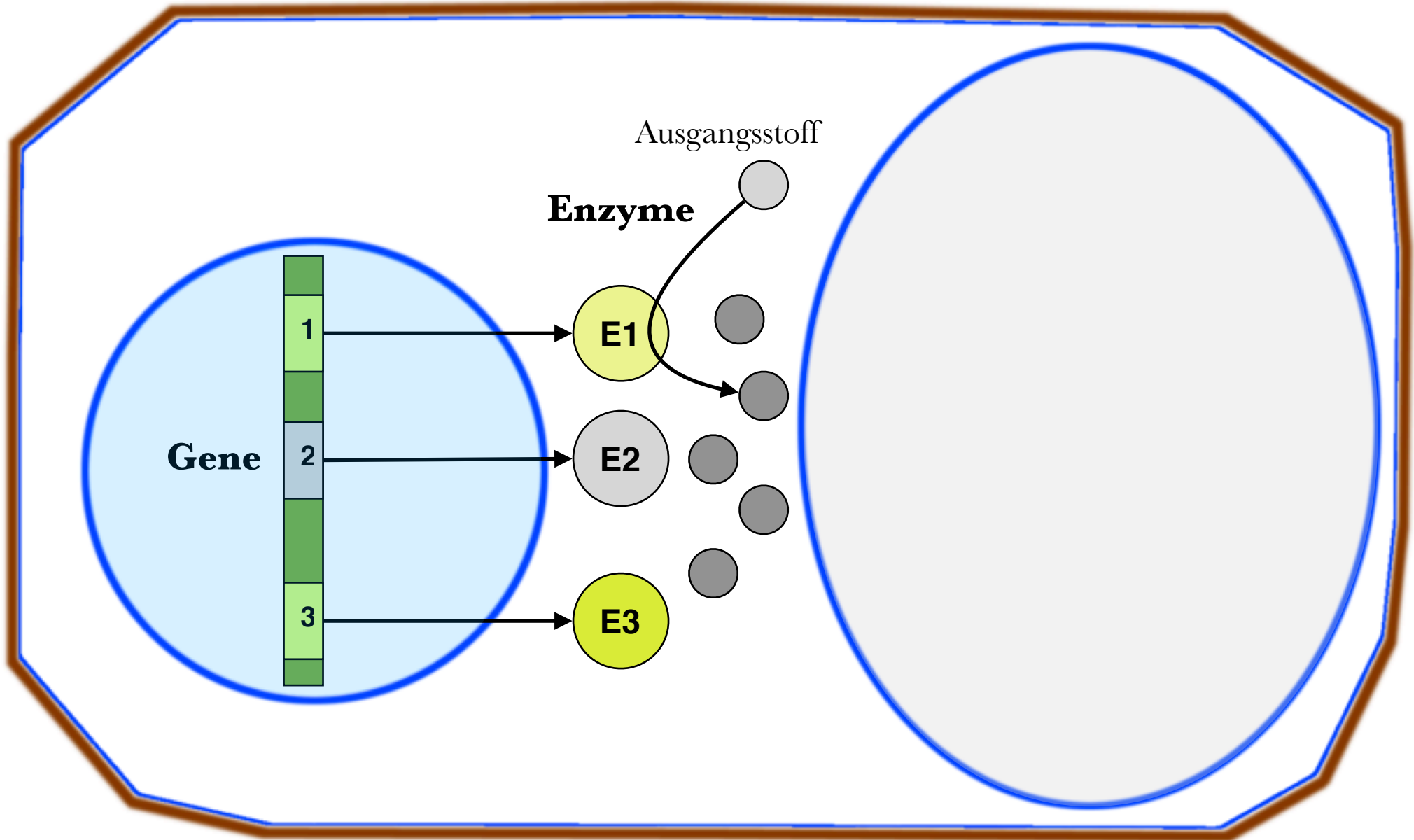


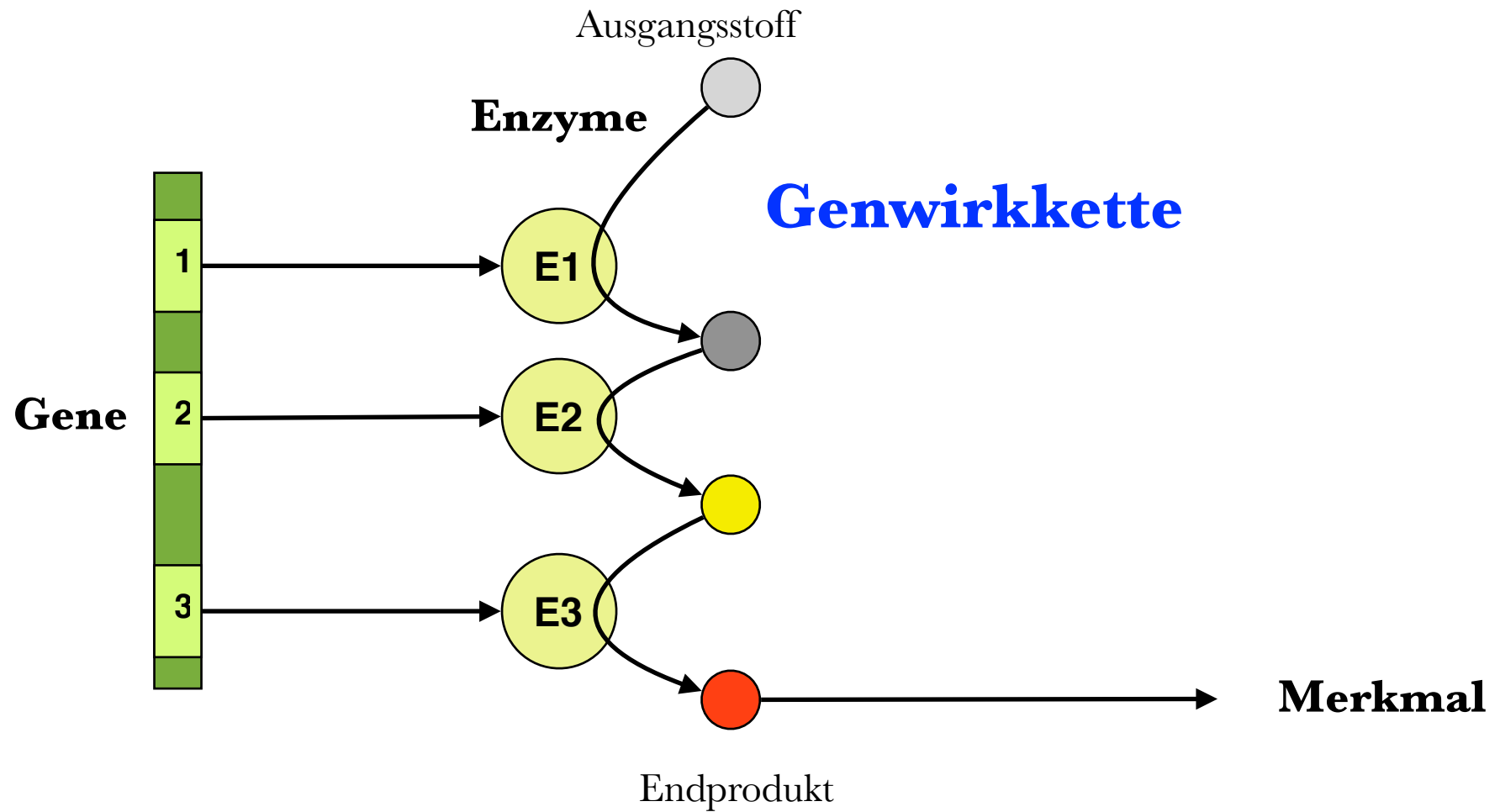




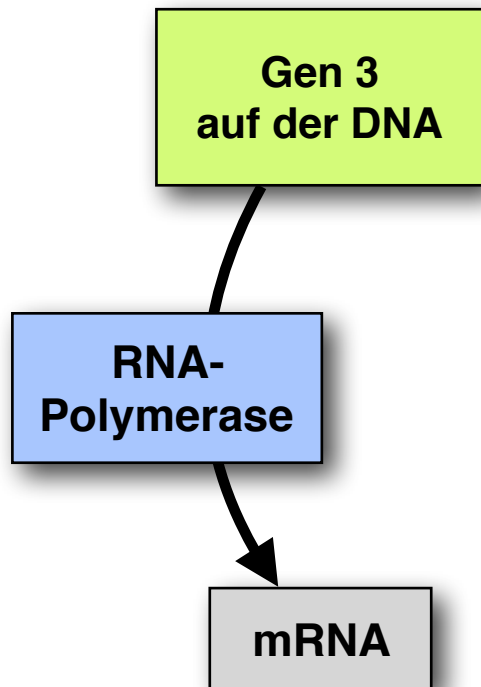












## Transkription

Gen 3  
auf der DNA

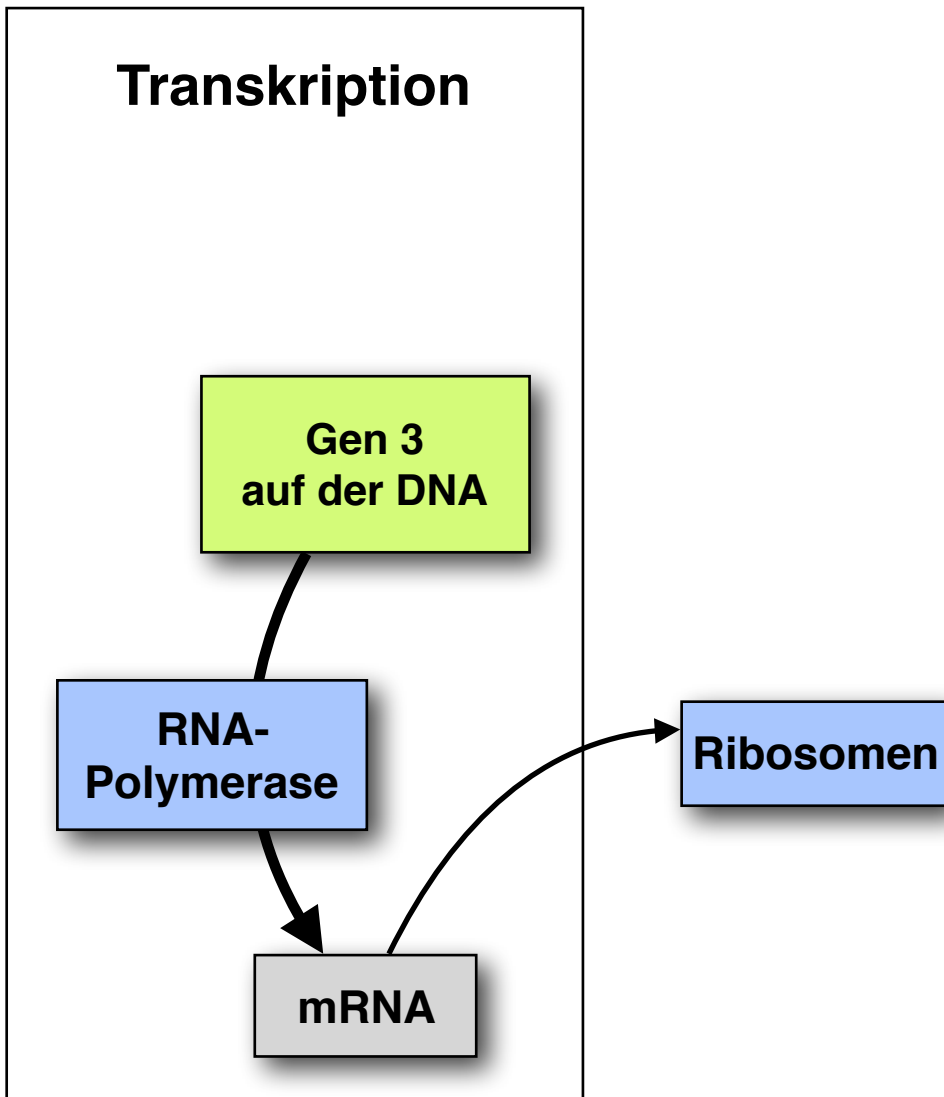
RNA-  
Polymerase

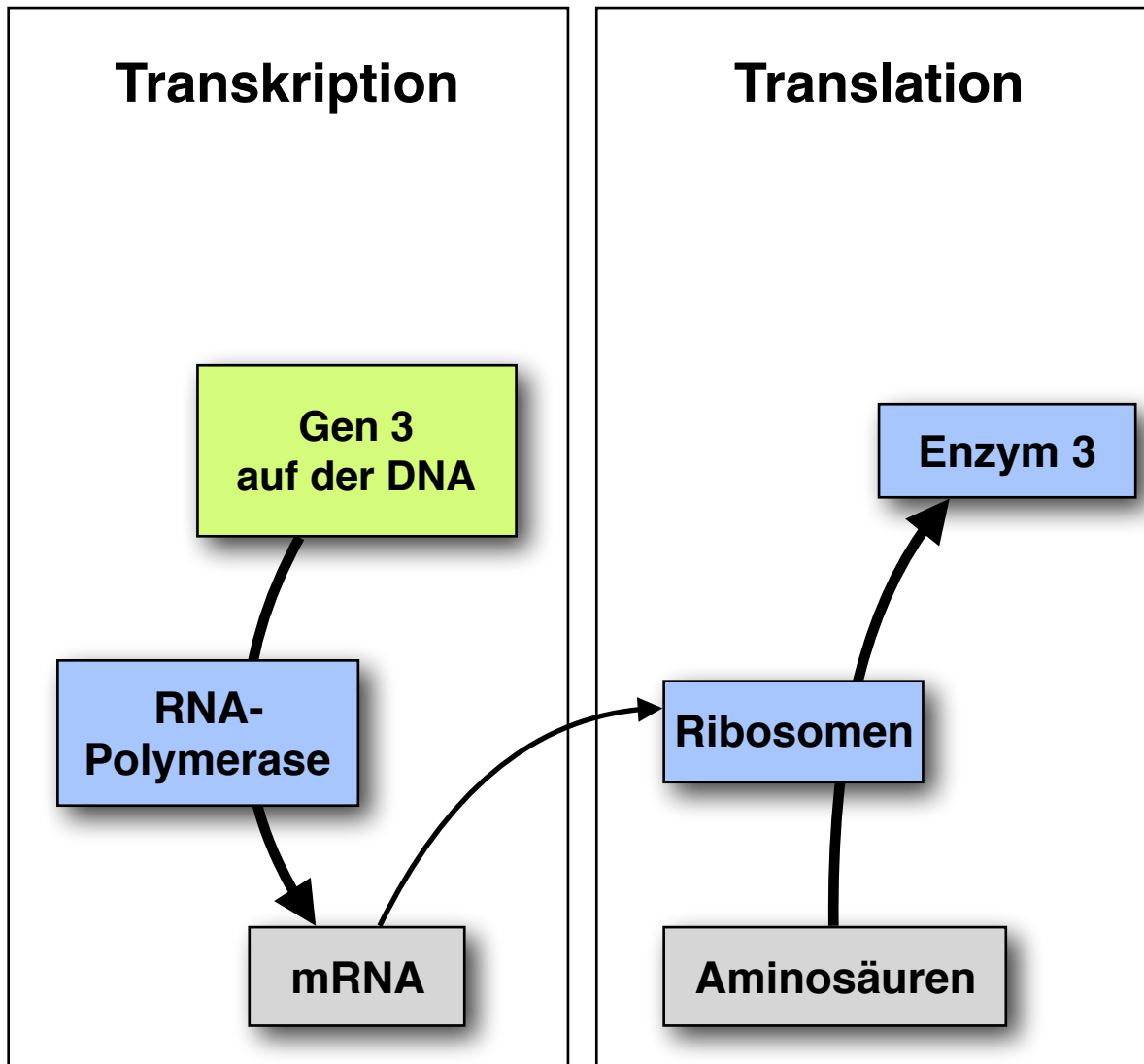
mRNA

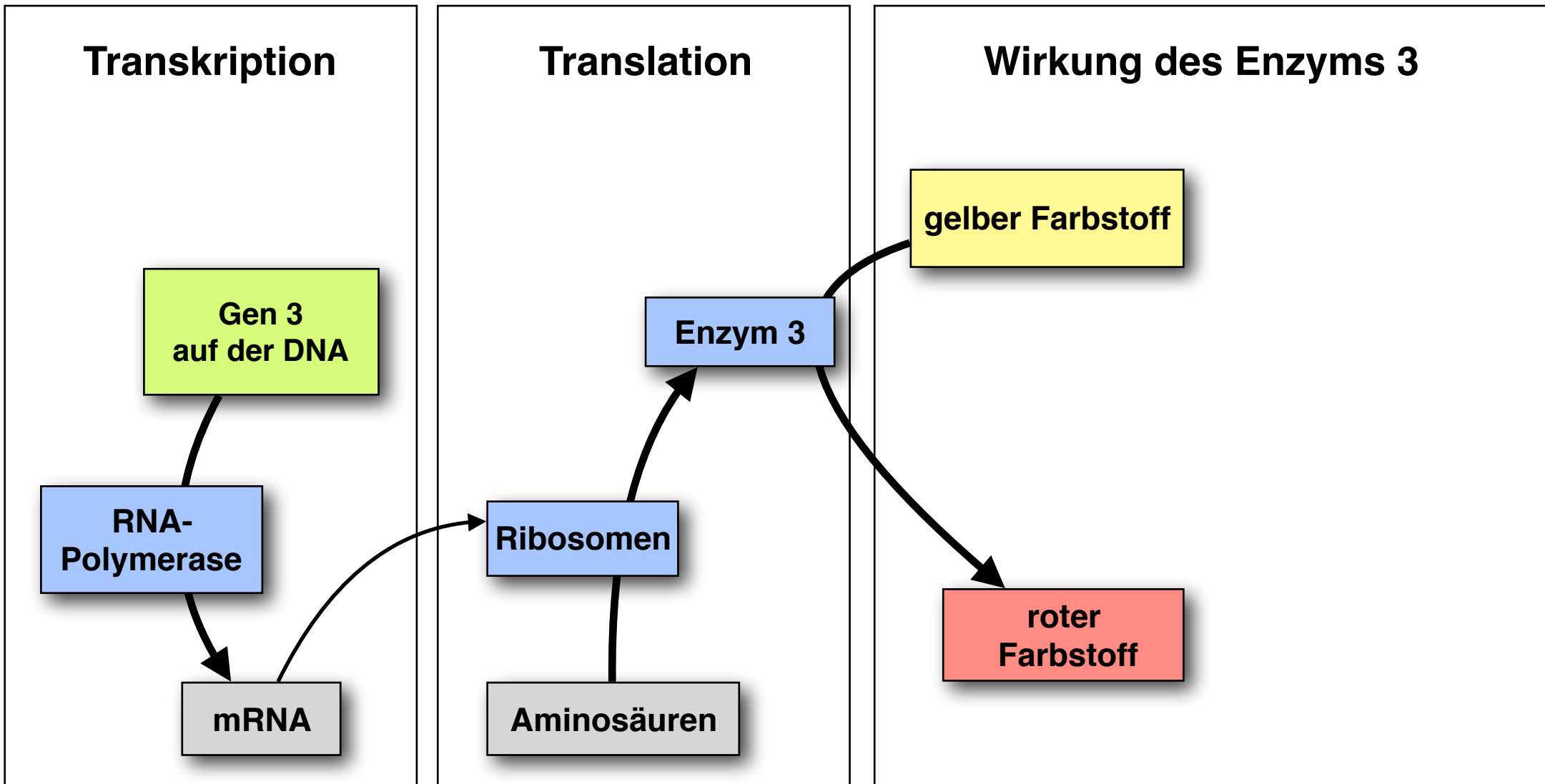


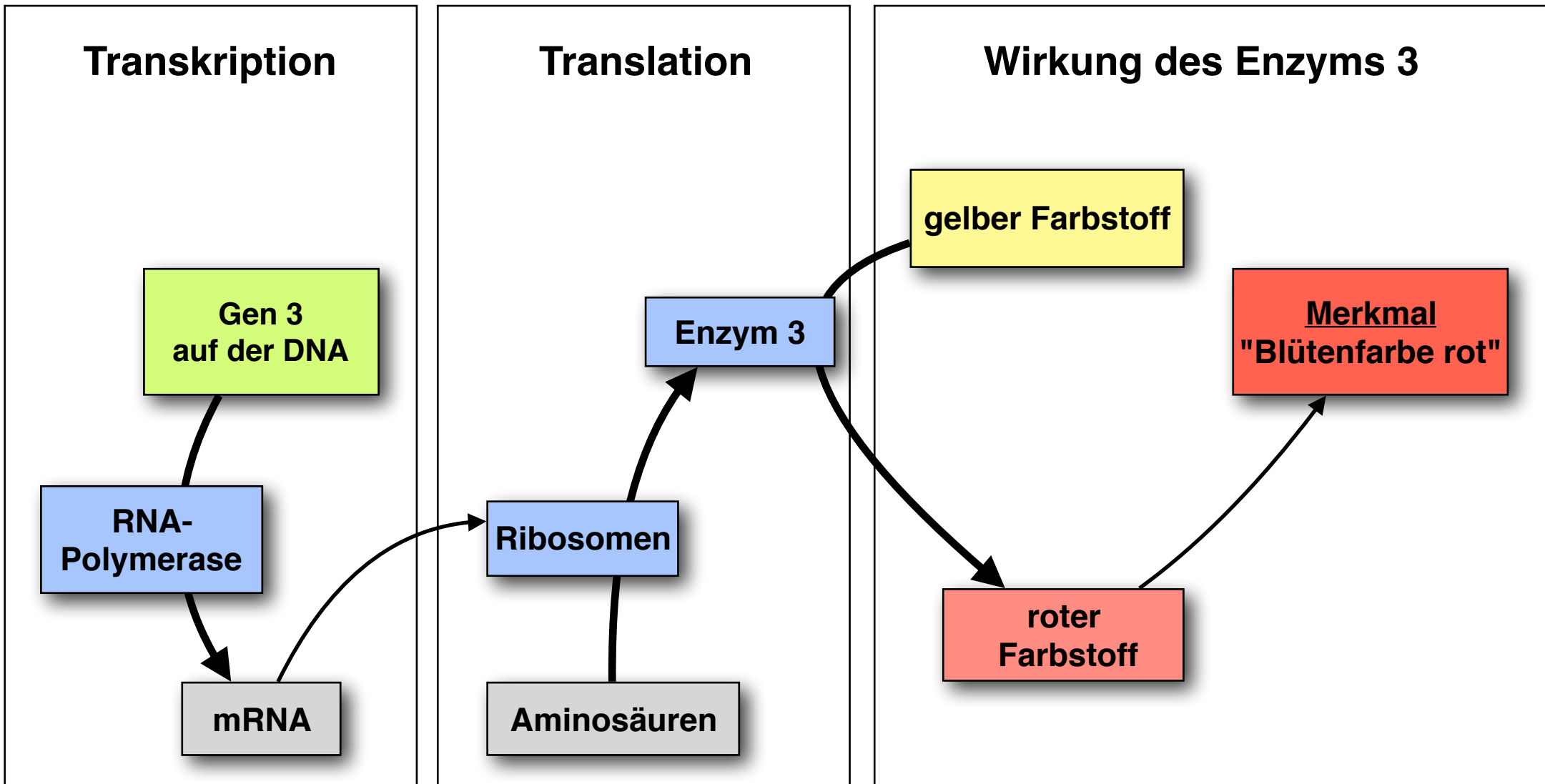
```
graph TD; A[Gen 3 auf der DNA] --> B[RNA-Polymerase]; B --> C[mRNA]
```

The diagram illustrates the transcription process. It starts with a light green box labeled 'Gen 3 auf der DNA'. A curved arrow points down to a light blue box labeled 'RNA-Polymerase'. Another curved arrow points down from the RNA-Polymerase box to a light gray box labeled 'mRNA'.

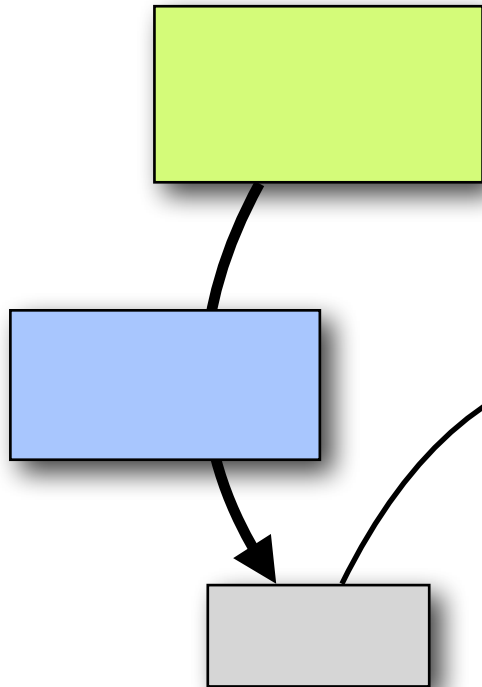




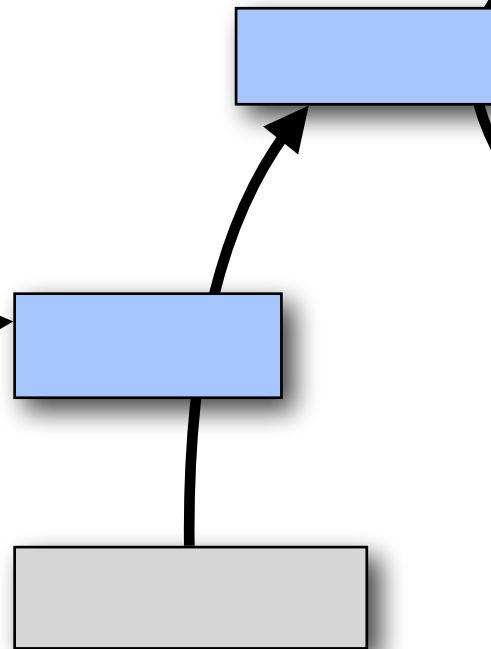




### Transkription



### Translation



### Wirkung des Enzyms 3

