

Nombre: Micaela Carolina Paco

Legajo: 52728

Link Github

<https://github.com/micapaco/ExamenGlobalMutantes.git>

Link Render

<https://examenmercadolibremutantes.onrender.com/swagger-ui/index.html>

PRUEBAS

- ADN MUTANTE(200)

Curl

```
curl -X 'POST' \
'https://examenmercadolibremutantes.onrender.com/mutant' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "dna": [
    "ATGCGA",
    "CAGTCG",
    "TTATGT",
    "AGAAGG",
    "CCCTTA",
    "TCACTG"
  ]
}'
```

Request URL

<https://examenmercadolibremutantes.onrender.com/mutant>

Server response

Code	Details
200	Response headers
	<pre>alt-svc: h3=":443"; ma=86400 cf-cache-status: DYNAMIC cf-ray: 9a35b53fe9db1e80-EZE content-length: 0 date: Mon,24 Nov 2025 03:09:32 GMT priority: u=1,i rndr-id: 74ed8e8f-c394-47f6 server: cloudflare server-timing: cfExtPri x-render-origin-server: Render</pre>

- ADN HUMANO(403)

Curl

```
curl -X 'POST' \
'https://examenmercadolibremutantes.onrender.com/mutant' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
  "dna": [
    "ATGCGA",
    "CAGTGC",
    "TTATTG",
    "AGACGG",
    "GCGTCA",
    "TCACTG"
  ]
}'
```

Request URL

<https://examenmercadolibremutantes.onrender.com/mutant>

Server response

Code	Details
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403 Error: response status is 403

Response headers

```
alt-svc: h3=":443"; ma=86400
cf-cache-status: DYNAMIC
cf-ray: 9a35be552f19e7a4-SCL
content-length: 0
date: Mon, 24 Nov 2025 03:15:44 GMT
priority: u=1,i
rndr-id: 96c470a7-5455-4208
server: cloudflare
server-timing: cfExtPri
x-render-origin-server: Render
```

Responses

- ADN INVÁLIDO(400)

Curl

```
curl -X 'POST' \
'https://examenmercadolibremutantes.onrender.com/mutant' \
-H 'accept: */*' \
-H 'Content-Type: application/json' \
-d '{
"dna": [
    "ATGXGA",
    "CAGTGC",
    "TTATGT",
    "AGAAGG"
]
}'
```

Request URL

<https://examenmercadolibremutantes.onrender.com/mutant>

Server response

Code	Details
400	Error: response status is 400

Response body

```
{
  "path": "/mutant",
  "error": "Bad Request",
  "message": "Validation failed: Invalid DNA sequence: must be a square NxN matrix (minimum 4x4) with only A,T,C,G characters",
  "timestamp": "2025-11-24T03:17:43.547033105",
  "status": 400
}
```

Response headers

```
alt-svc: h3=".443"; ma=86400
cf-cache-status: DYNAMIC
cf-ray: 9a35c1401e04b4fe-SCL
content-encoding: br
content-type: application/json
date: Mon, 24 Nov 2025 03:17:43 GMT
priority: u=1,i
rndr-id: c49617d2-fed5-4699
server: cloudflare
server-timing: cfExtPri
vary: Accept-Encoding
x-render-origin-server: Render
```

Responses

Responses

Curl

```
curl -X 'GET' \
  'https://examenmercadolibremutantes.onrender.com/stats' \
  -H 'accept: */*'
```

Request URL

```
https://examenmercadolibremutantes.onrender.com/stats
```

Server response

Code	Details
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200

Response body

```
{  
  "ratio": 1,  
  "count_mutant_dna": 1,  
  "count_human_dna": 1  
}
```

Response headers

```
alt-svc: h3=":443"; ma=86400  
cf-cache-status: DYNAMIC  
cf-ray: 9a35c4d89874e9a1-SCL  
content-encoding: br  
content-type: application/json  
date: Mon,24 Nov 2025 03:20:10 GMT  
priority: u=1,i  
rndr-id: 017bc51e-3414-4b66  
server: cloudflare  
server-timing: cfExtPri  
vary: Accept-Encoding  
x-render-origin-server: Render
```

Responses

Code	Description
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200

Estadísticas obtenidas exitosamente