

Project: Aubrey A3G/TRIM21

**Project Description**

Not specified

**Researcher's Name**

Aubrey Sawyer

**Date**

May 26, 2023, 1:13:08 PM CDT

**Principal Investigator Name**

Not specified

**Lab Mailing Address**

Not specified

**Analysis Software**

Empiria Studio® Software v2.2.0.141

**Data Location**

Not specified

Experiment: 12-4-2024 Uninfected H9 blot quant

**Description**

Not specified

**Experiment Type**

Analysis: HKP + Targets

**Date Created**

Dec 4, 2024, 4:11:20 PM CST

**Date Edited**

Dec 4, 2024, 4:18:07 PM CST

**Image Information**

**Image Name:** 0000882\_01

**Acquire Date/Time**

Nov 15, 2024, 1:42:38 PM CST

**Channels**

700, 800

**Resolution**

169 µm

**Comment**

Uninfected H9 c, shTRIM21, TRIM21 x 2 GAPDH

**User**

Not specified

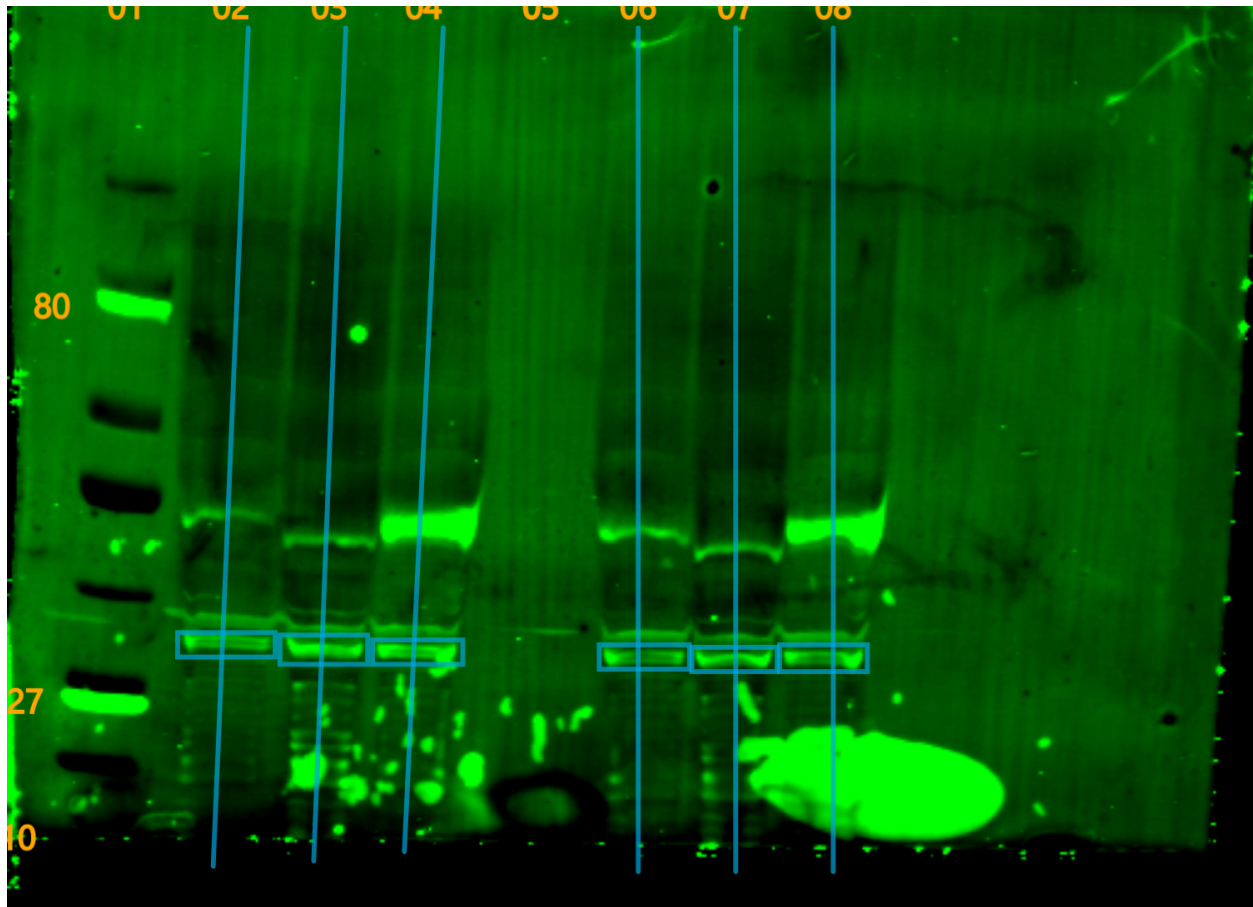
## Experimental Analysis

800 Channel

Image Name: 0000882\_01

Lane Detection: Manual

Protein: GAPDH



### Internal Loading Control Analysis Table

| Lane | Name     | MW   | Signal | SNR  | Replicate | Avg. Signal | Avg. SNR | Std. Dev. | % CV | Treatment (%) | Type   |
|------|----------|------|--------|------|-----------|-------------|----------|-----------|------|---------------|--------|
| 04   | TRIM21   | 33.9 | 334    | 8.19 | TRIM21    | 292         | 5.84     | 59.5      | 20.4 | 0             | Sample |
| 08   | TRIM21   | 33.2 | 250    | 3.49 | TRIM21    | 292         | 5.84     | 59.5      | 20.4 | 0             | Sample |
| 02   | Control  | 35.1 | 276    | 4.40 | Control   | 256         | 4.87     | 28.7      | 11.2 | 0             | Sample |
| 06   | Control  | 32.3 | 235    | 5.35 | Control   | 256         | 4.87     | 28.7      | 11.2 | 0             | Sample |
| 03   | shTRIM21 | 33.9 | 315    | 2.75 | shTRIM21  | 298         | 2.99     | 23.3      | 7.82 | 0             | Sample |
| 07   | shTRIM21 | 32.9 | 282    | 3.22 | shTRIM21  | 298         | 2.99     | 23.3      | 7.82 | 0             | Sample |

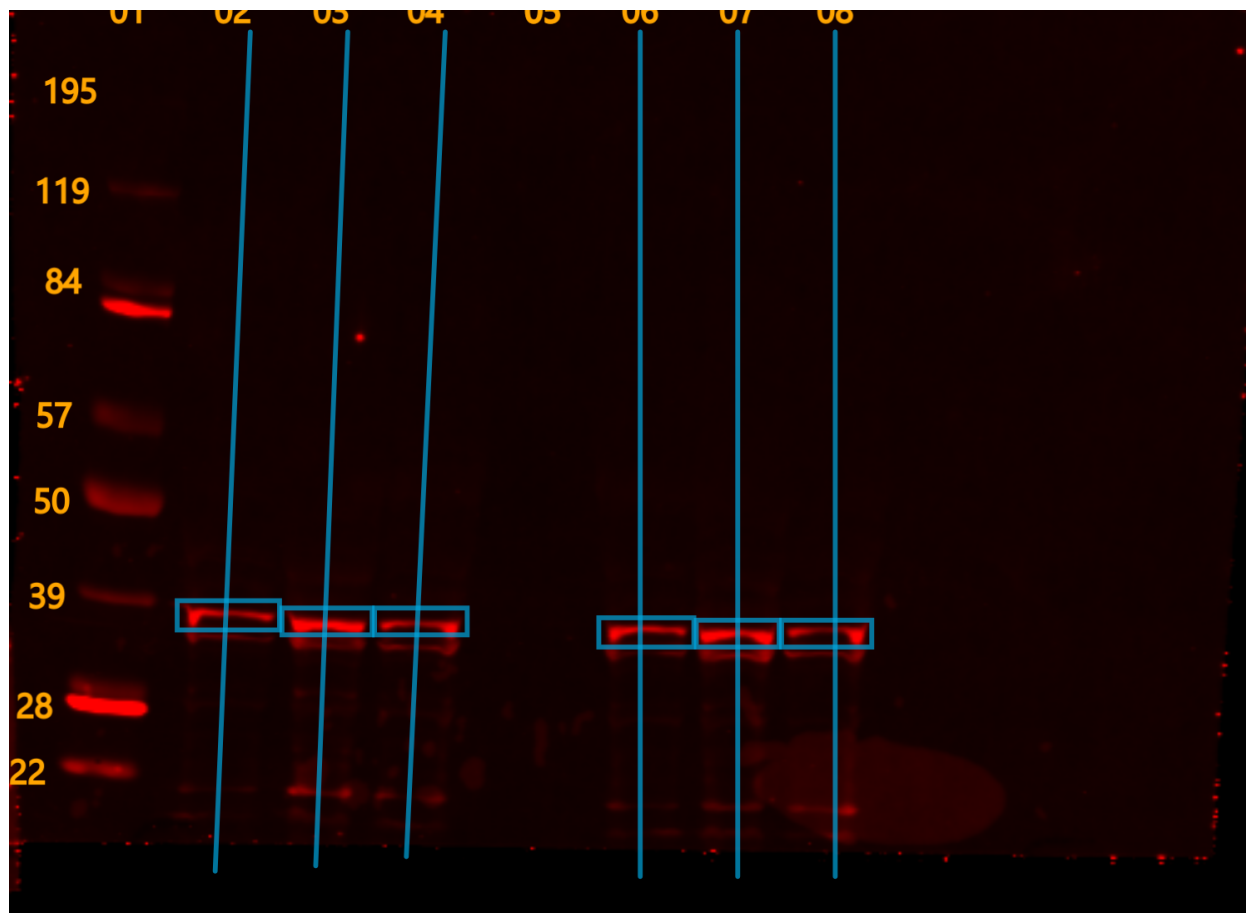
MW values are calculated using marker set iBright 800 on the 800 Channel.

700 Channel

Image Name: 0000882\_01

Lane Detection: Manual

Protein: A3G



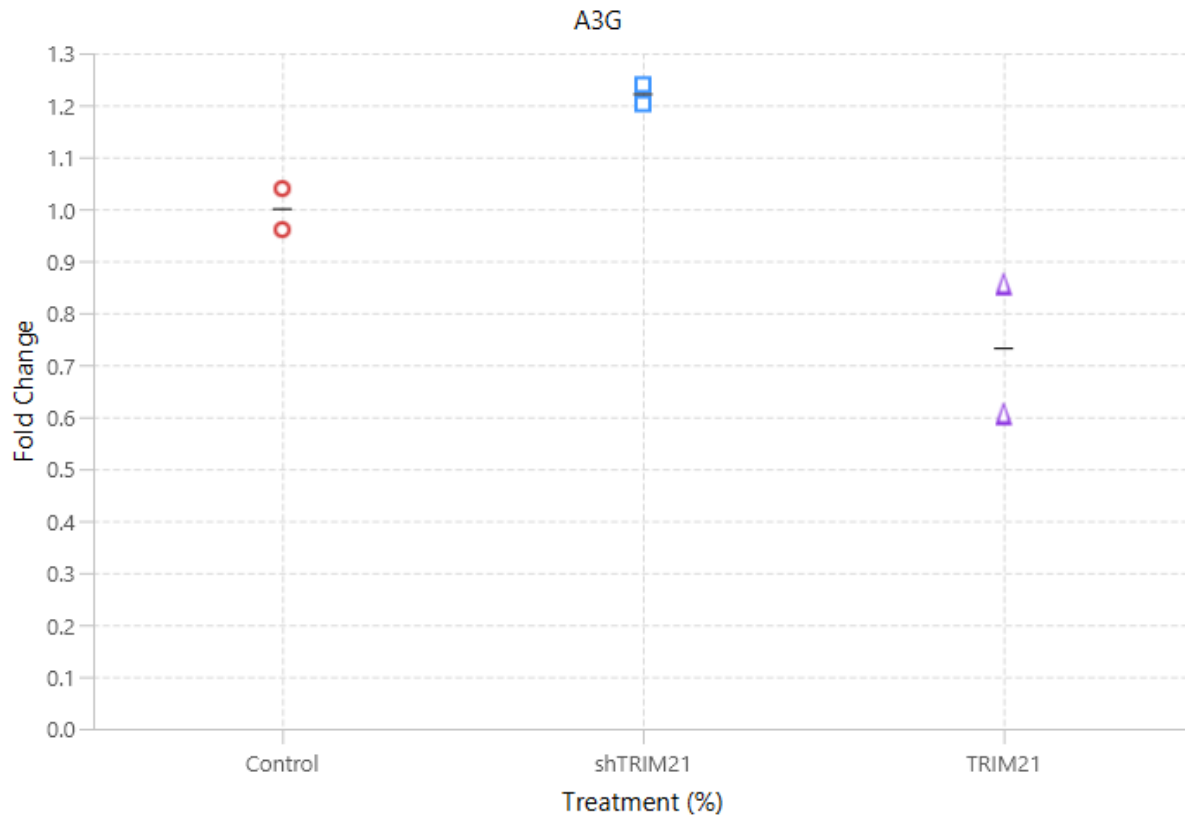
Protein Analysis Table

| Lane | Name     | MW   | Signal | Total | Normalized Signal | SNR  | Replicate | Avg. Norm. Signal | Avg. SNR | Std. Dev. | ^ % CV | Treatment (%) | Type   |
|------|----------|------|--------|-------|-------------------|------|-----------|-------------------|----------|-----------|--------|---------------|--------|
| 03   | shTRIM21 | 36.2 | 5,170  | 7,080 | 5,490             | 22.9 | shTRIM21  | 5,580             | 23.9     | 119       | 2.13   | 0             | Sample |
| 07   | shTRIM21 | 35.4 | 4,770  | 6,540 | 5,660             | 24.9 | shTRIM21  | 5,580             | 23.9     | 119       | 2.13   | 0             | Sample |
| 02   | Control  | 37.4 | 3,620  | 5,790 | 4,390             | 19.2 | Control   | 4,570             | 20.6     | 255       | 5.58   | 0             | Sample |
| 06   | Control  | 35.9 | 3,340  | 5,340 | 4,750             | 21.9 | Control   | 4,570             | 20.6     | 255       | 5.58   | 0             | Sample |
| 04   | TRIM21   | 36.4 | 2,770  | 4,620 | 2,770             | 18.3 | TRIM21    | 3,340             | 21.2     | 807       | 24.1   | 0             | Sample |
| 08   | TRIM21   | 35.9 | 2,930  | 4,730 | 3,910             | 24.1 | TRIM21    | 3,340             | 21.2     | 807       | 24.1   | 0             | Sample |

MW values are calculated using marker set iBright 700 on the 700 Channel.

700 Channel (continued)

## Fold Change Chart



The mean change value for each sample is indicated by a horizontal line.

## Fold Change Table

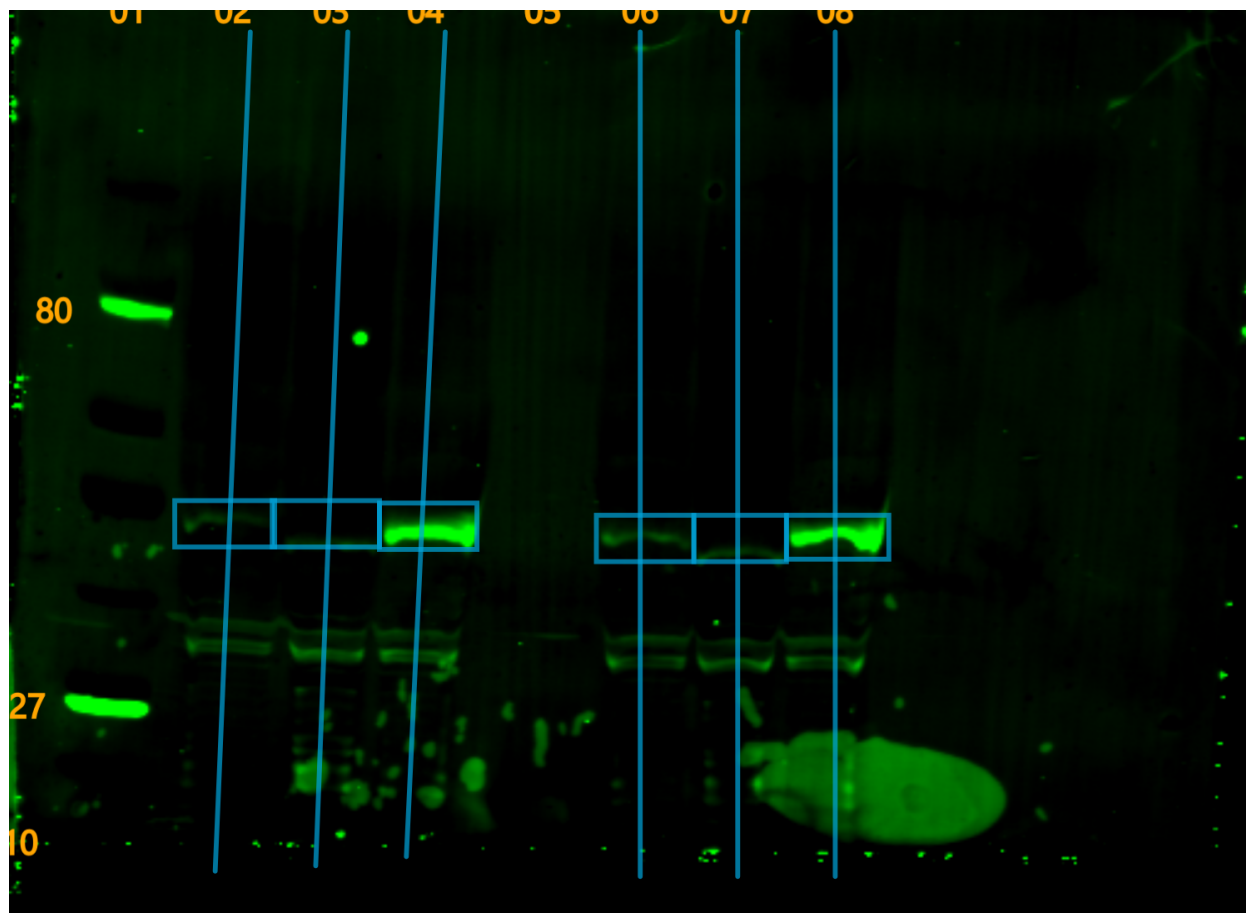
| Lane     | Treatment (X-Axis) | Treatment (%) | Fold Change |
|----------|--------------------|---------------|-------------|
| Control  | Control            | 0.00          | 1.00        |
| shTRIM21 | shTRIM21           | 0.00          | 1.22        |
| TRIM21   | TRIM21             | 0.00          | 0.732       |

800 Channel

Image Name: 0000882\_01

Lane Detection: Manual

Protein: TRIM21



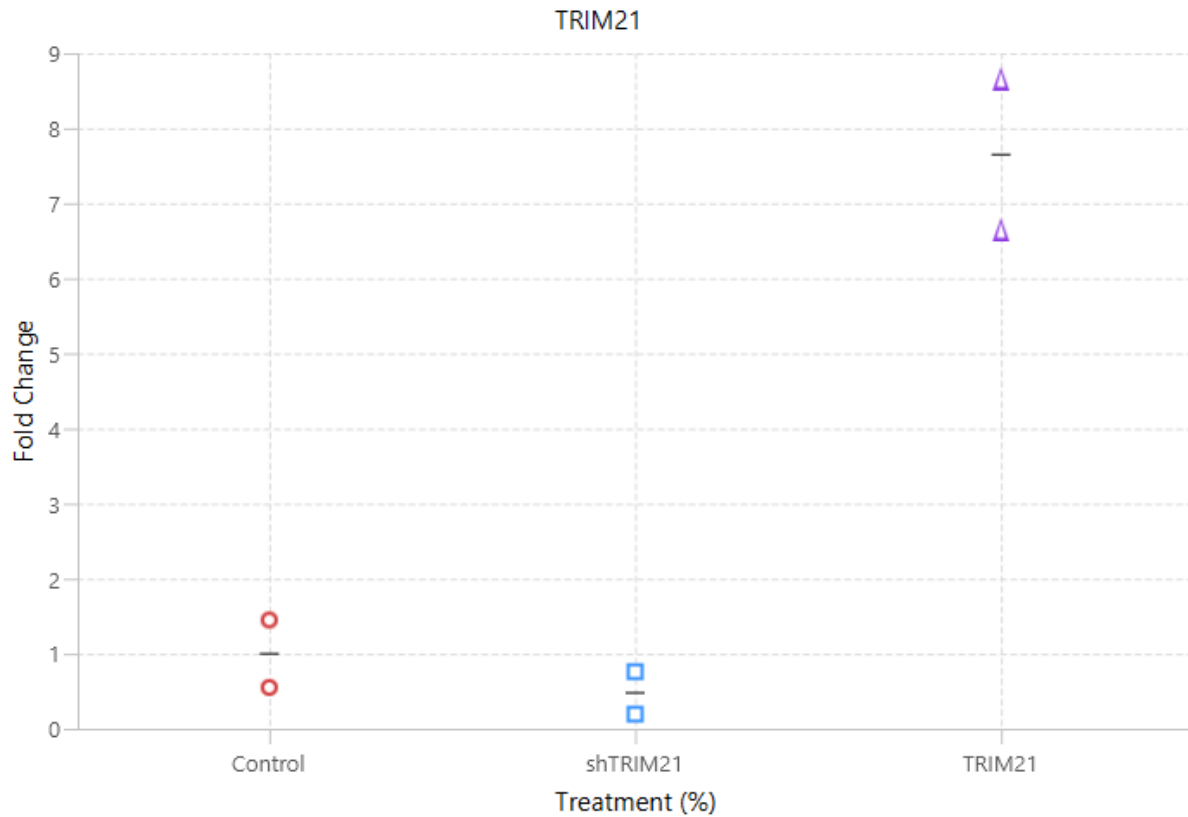
Protein Analysis Table

| Lane | Name     | MW   | Signal | Total | Normalized Signal | SNR   | Replicate | Avg. Norm. Signal | Avg. SNR | Std. Dev. | ^ % CV | Treatment (%) | Type   |
|------|----------|------|--------|-------|-------------------|-------|-----------|-------------------|----------|-----------|--------|---------------|--------|
| 03   | shTRIM21 | 48.2 | 64.5   | 2,180 | 68.5              | 0.338 | shTRIM21  | 168               | 1.48     | 141       | 83.8   | 0             | Sample |
| 07   | shTRIM21 | 46.9 | 226    | 1,950 | 268               | 2.63  | shTRIM21  | 168               | 1.48     | 141       | 83.8   | 0             | Sample |
| 02   | Control  | 51.8 | 160    | 2,190 | 194               | 1.16  | Control   | 352               | 2.48     | 224       | 63.5   | 0             | Sample |
| 06   | Control  | 49.5 | 359    | 2,300 | 511               | 3.80  | Control   | 352               | 2.48     | 224       | 63.5   | 0             | Sample |
| 04   | TRIM21   | 49.5 | 2,340  | 4,390 | 2,340             | 25.4  | TRIM21    | 2,700             | 25.9     | 501       | 18.6   | 0             | Sample |
| 08   | TRIM21   | 49.8 | 2,280  | 4,320 | 3,050             | 26.5  | TRIM21    | 2,700             | 25.9     | 501       | 18.6   | 0             | Sample |

MW values are calculated using marker set iBright 800 on the 800 Channel.

## 800 Channel (continued)

### Fold Change Chart



The mean change value for each sample is indicated by a horizontal line.

### Fold Change Table

| Lane     | Treatment (X-Axis) | Treatment (%) | Fold Change |
|----------|--------------------|---------------|-------------|
| Control  | Control            | 0.00          | 1.00        |
| shTRIM21 | shTRIM21           | 0.00          | 0.478       |
| TRIM21   | TRIM21             | 0.00          | 7.65        |

### MW Marker Tables

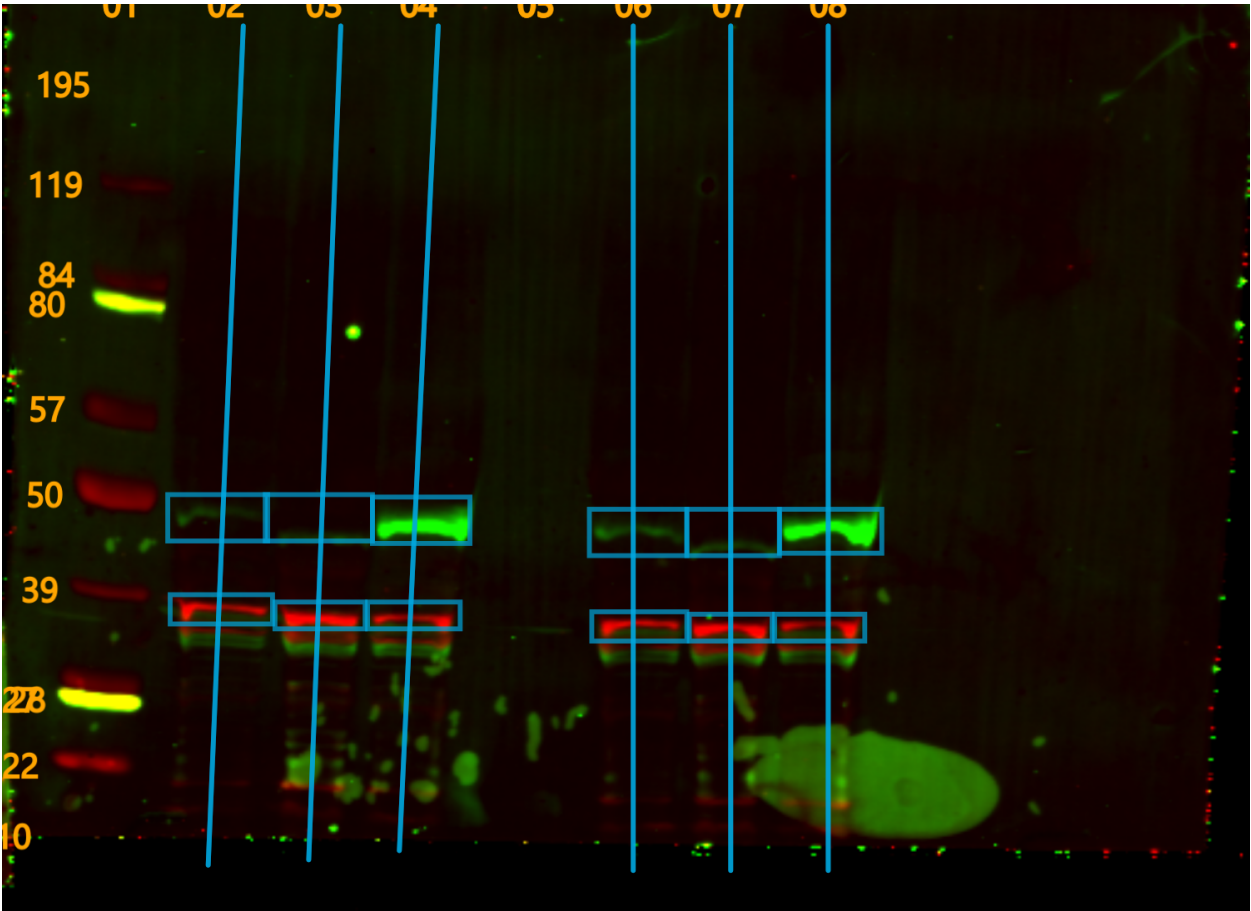
#### MW Marker Set iBright 800 on the 800 Channel

| Channel | Lane | Name   | Band Name | MW |
|---------|------|--------|-----------|----|
| 800     | 01   | Lane01 | B01       | 80 |
| 800     | 01   | Lane01 | B02       | 27 |
| 800     | 01   | Lane01 | B03       | 10 |

MW Marker Set iBright 700 on the 700 Channel

| Channel | Lane | Name   | Band Name | MW  |
|---------|------|--------|-----------|-----|
| 700     | 01   | Lane01 | B01       | 195 |
| 700     | 01   | Lane01 | B02       | 119 |
| 700     | 01   | Lane01 | B03       | 84  |
| 700     | 01   | Lane01 | B04       | 57  |
| 700     | 01   | Lane01 | B05       | 50  |
| 700     | 01   | Lane01 | B06       | 39  |
| 700     | 01   | Lane01 | B07       | 28  |
| 700     | 01   | Lane01 | B08       | 22  |

Summary



Experimental Observations

Not specified

Next Steps

Not specified

Summary

Not specified

## Signatures

|                  |                     |             |
|------------------|---------------------|-------------|
| Researcher       |                     |             |
| <hr/>            | <hr/>               | <hr/>       |
| <i>Signature</i> | <i>Printed Name</i> | <i>Date</i> |

|                  |                     |             |
|------------------|---------------------|-------------|
| Witness          |                     |             |
| <hr/>            | <hr/>               | <hr/>       |
| <i>Signature</i> | <i>Printed Name</i> | <i>Date</i> |