

### Sample loading information for gels shown in Main figures and repeats

**Fig 2CD r1-1:** repeat 1 for Fig. 2C/D. Left to right: no inhibitor, AT9010 (12.5, 25, 50, 100, 200  $\mu$ M), STP (12.5, 25, 50, 100, 200  $\mu$ M), GTP (12.5, 25, 50, 100, 200  $\mu$ M).

**Fig 2CD r1-2:** repeat 1 for Fig. 2C/D. Left to right: no inhibitor, 2'N3-GTP (12.5, 25, 50, 100, 200  $\mu$ M), 2'N3-UTP (12.5, 25, 50, 100, 200  $\mu$ M), RTP (12.5, 25, 50, 100, 200  $\mu$ M).

**Fig 2CD r2:** repeat 2 for Fig. 2C/D. Top gel, left to right: no inhibitor, AT9010 (12.5, 25, 50, 100  $\mu$ M), STP (12.5, 25, 50, 100  $\mu$ M), RTP (12.5, 25, 50, 100  $\mu$ M); Bottom gel, left to right: 2'N3-GTP (12.5, 25, 50, 100  $\mu$ M), 2'N3-UTP (12.5, 25, 50, 100  $\mu$ M), GTP (12.5, 25, 50, 100  $\mu$ M).

**Fig 2CD r3:** repeat 3 for Fig. 2C/D. Top gel, left to right: no inhibitor, AT9010 (12.5, 25, 50, 100  $\mu$ M), STP (12.5, 25, 50, 100  $\mu$ M), RTP (12.5, 25, 50, 100  $\mu$ M); Bottom gel, left to right: 2'N3-GTP (12.5, 25, 50, 100  $\mu$ M), 2'N3-UTP (12.5, 25, 50, 100  $\mu$ M), GTP (12.5, 25, 50, 100  $\mu$ M).

**Fig 3B r1:** Fig. 3B repeat 1. Left to right: no inhibitor, 1% DMSO, AT-DP, AT-TP, SDP, STP, AT-DP, AT-TP, SDP, STP, AT-DP, AT-TP, SDP, STP.

**Fig 3B r2:** Fig. 3B repeat 2. Left to right: no inhibitor, TOB, RUT, empty lane, no inhibitor, TOB, RUT, empty lane, TOB, RUT.

**Fig 4C:** the gel shown in Fig. 4C. All relevant lanes are labeled; numbers after inhibitor names correspond to  $\mu$ M. No inhibitor control = DMSO. To make the figure, the panels were rearranged to match the order of inhibitors in other panels. In addition, the panels with another control inhibitor were removed.

**Fig 4D r1:** Fig. 4D repeat 1. Lane 1 to 10: No RdRp, 1% DMSO, RFB (100, 300  $\mu$ M), FDX (50, 150  $\mu$ M), RPN (100, 300  $\mu$ M), SUR (10, 30  $\mu$ M).

**Fig 4D r2:** Fig. 4D repeat 2. Lane 1 to 10: No RdRp, 1% DMSO, RFB (100, 300  $\mu$ M), FDX (50, 150  $\mu$ M), RPN (100, 300  $\mu$ M), SUR (10, 30  $\mu$ M).

**Fig 4D r3:** Fig. 4D repeat 3. Lane 1 to 10: No RdRp, 1% DMSO, RFB (100, 300  $\mu$ M), FDX (50, 150  $\mu$ M), RPN (100, 300  $\mu$ M), SUR (10, 30  $\mu$ M).

**Fig 4E r1:** Fig. 4E repeat 1. Lane 1 to 9: 1% DMSO, RFB (100, 300  $\mu$ M), FDX (50, 150  $\mu$ M), RPN (100, 300  $\mu$ M), SUR (10, 30  $\mu$ M).

Lane 10 to 18: 1% DMSO, RFB (100, 300  $\mu$ M), FDX (50, 150  $\mu$ M), RPN (100, 300  $\mu$ M), SUR (10, 30  $\mu$ M).

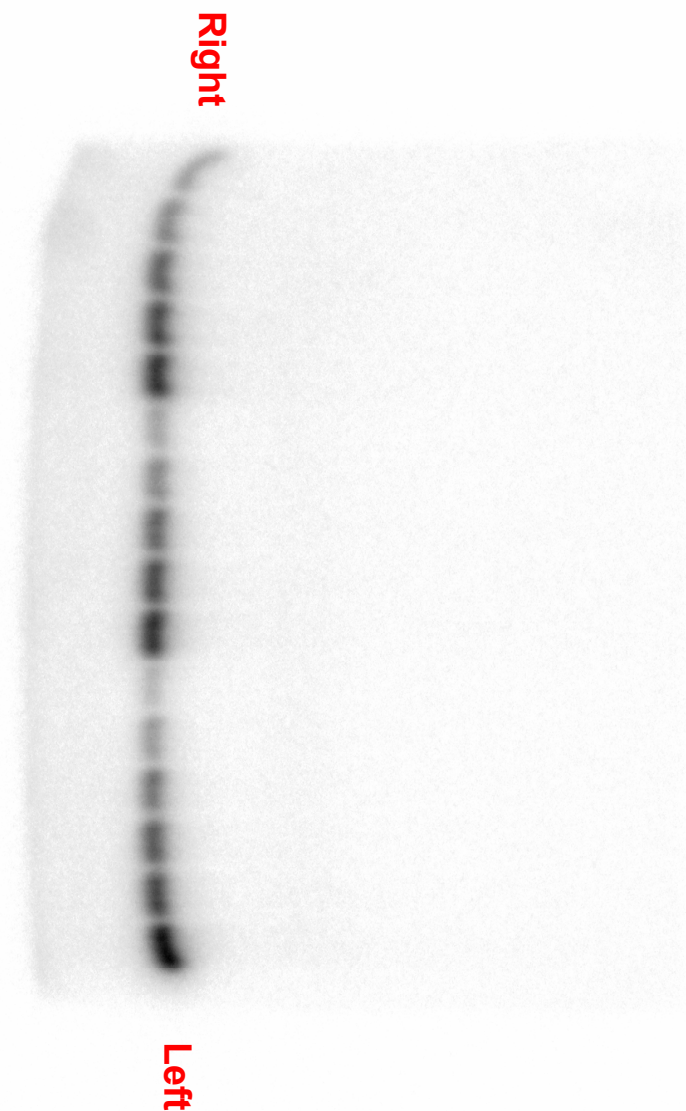
**Fig 4E r2:** Fig. 4E repeat 2. Left to right: 1% DMSO, RFB (100, 300  $\mu$ M), FDX (50, 150  $\mu$ M), RPN (100, 300  $\mu$ M), SUR (10, 30  $\mu$ M).

**Fig 5B:** the gel shown in Fig. 5B; Fig. 5B\_r2 and \_r3 are repeats. All lanes are labeled on images. None = DMSO.

File/Range: F:\Original gels\Fig 2CD r1-1.gel / 0.000-4965 Counts /Magnification - 1.47  
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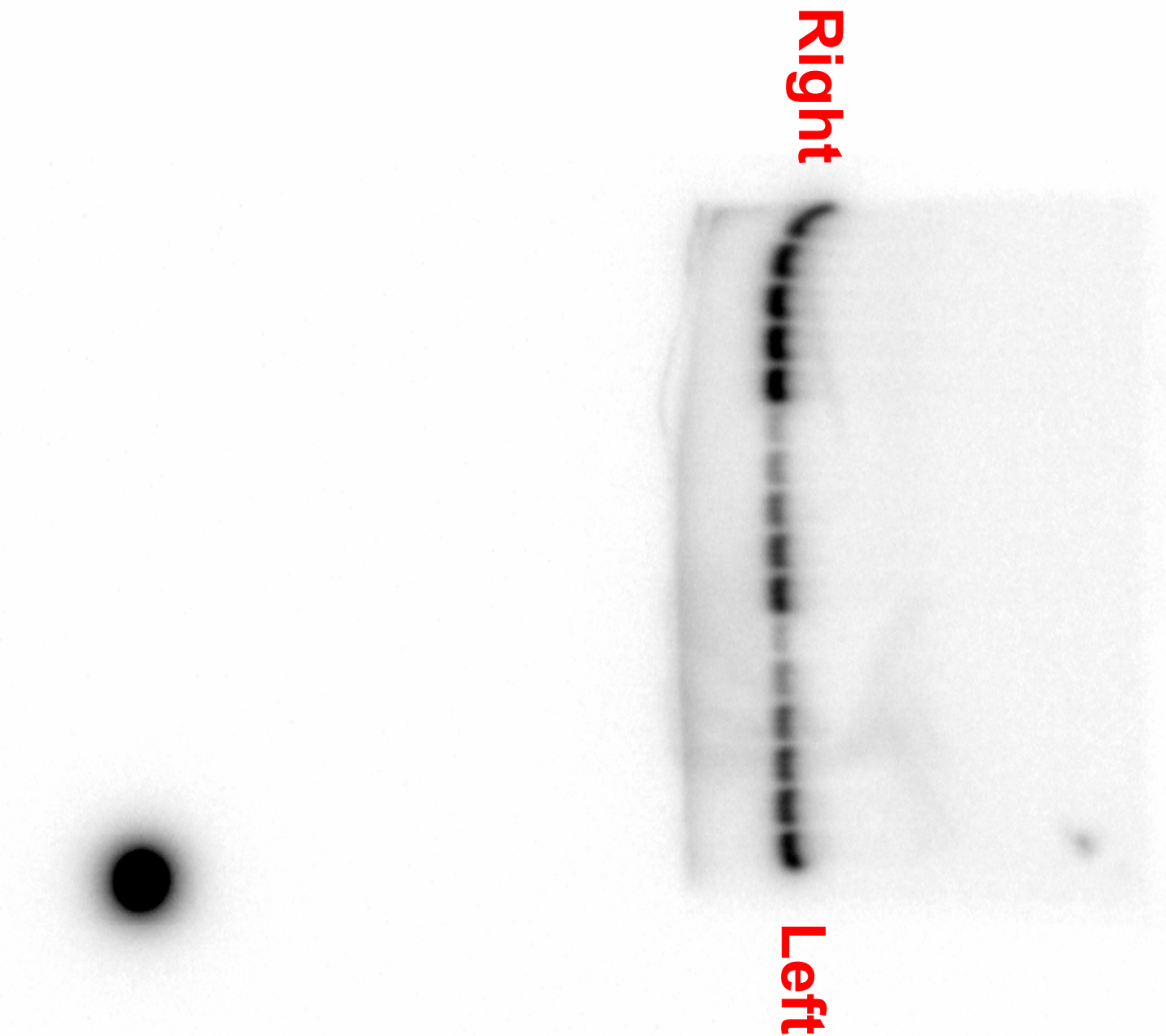
Fig. 2CD r1-1



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Fig. 2CD r1-2



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Scan Date/Time: 2022:03:16 14:51:27

Prep. Date/Time: 2022:03:16 14:51:27

Fig. 2CD r3

Bottom gel

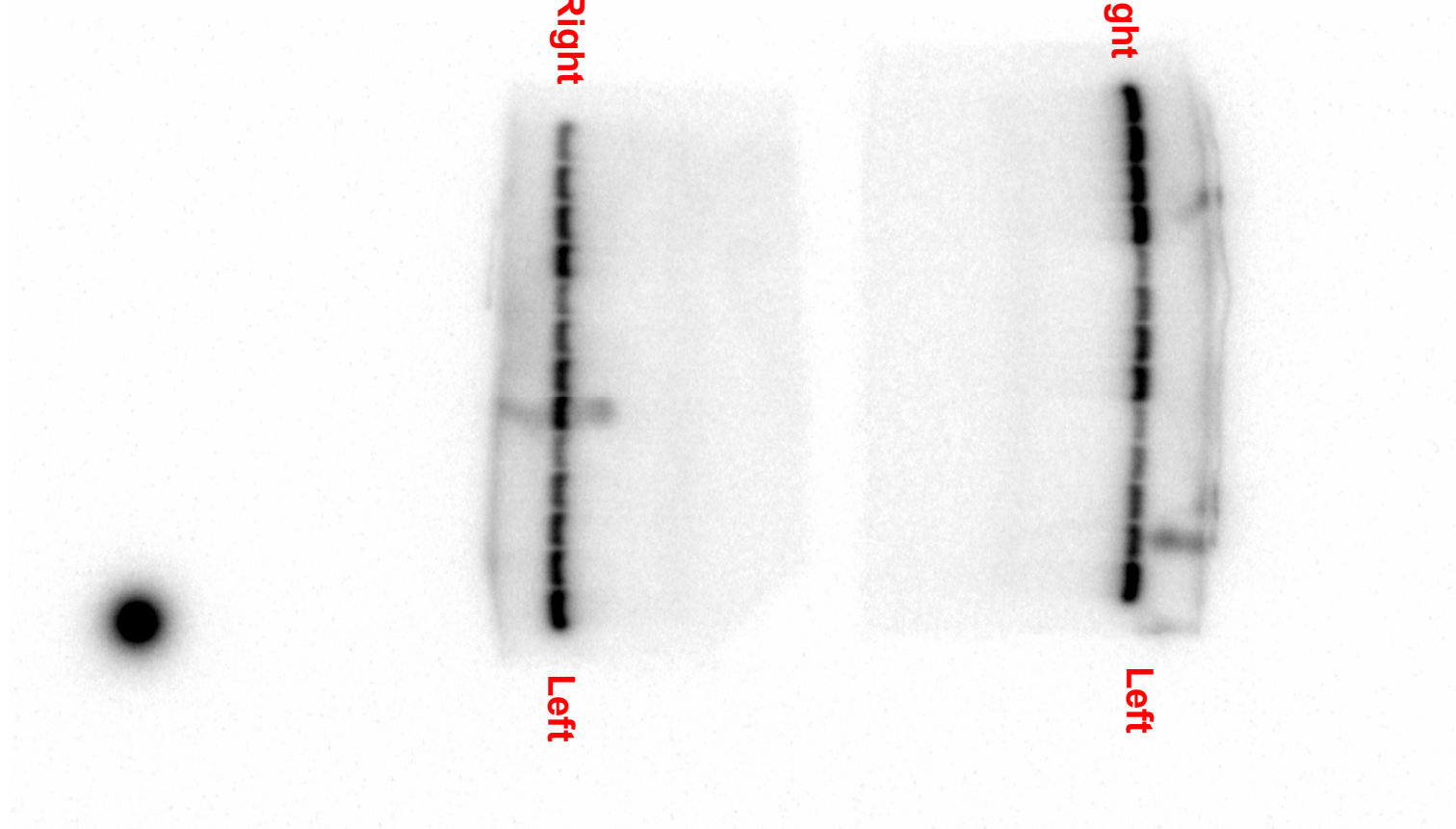
Top gel

Right

Right

Left

Left





File/Range: F:\Original gels\Fig 2CD r3.gel / 0.000-1997 Counts /Magnification - 1.00

User Name: Artsimovitch Lab

Image Name: F:\Original gels\Fig 2CD r3.gel

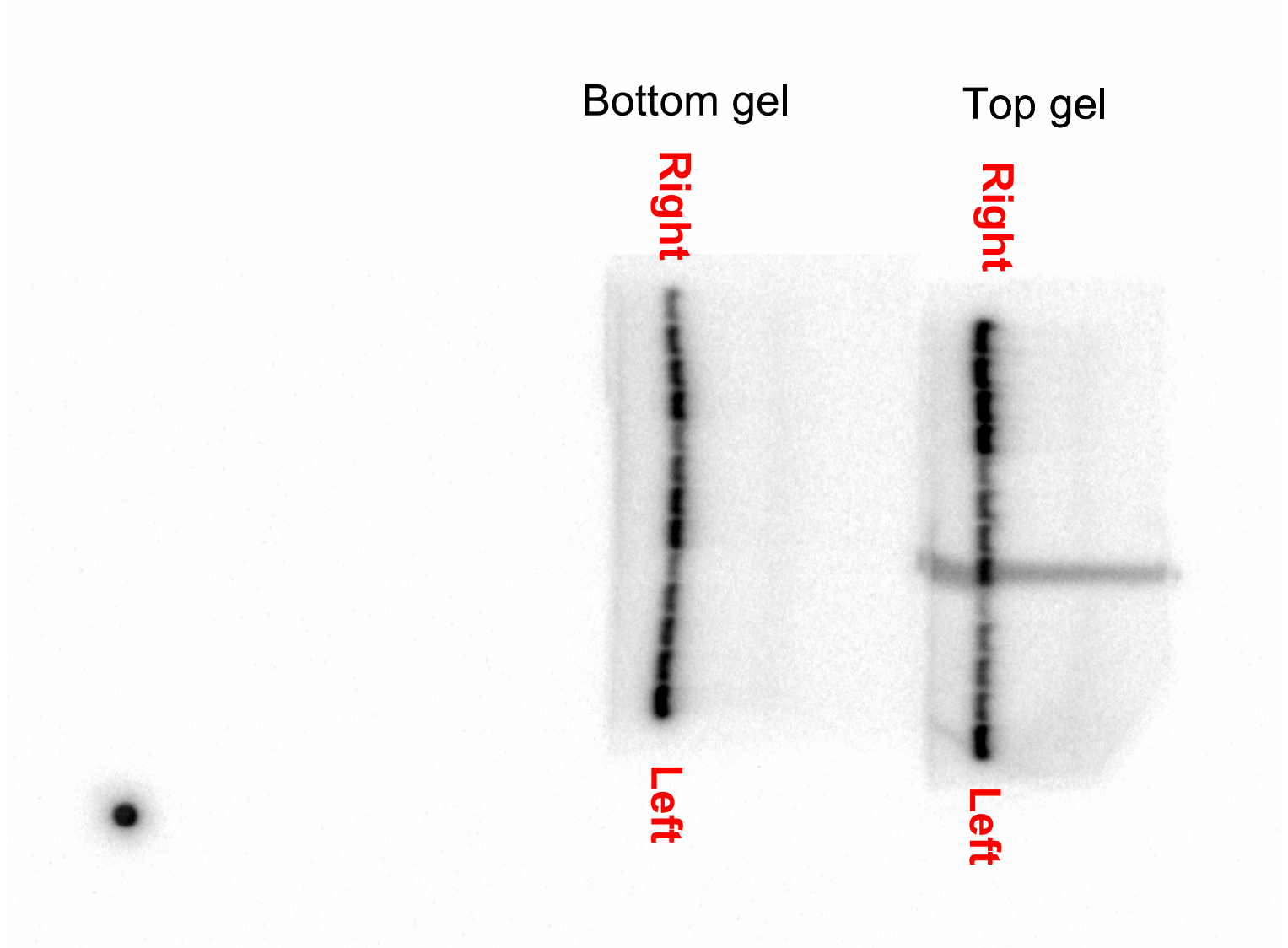
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Scan Date/Time: 2022:03:16 16:07:30

Prep. Date/Time: 2022:03:16 16:07:30

Fig. 2CD r4



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Fig. 3B r1

Present Date/Time: 2022-06-01 17:09:46

Left  
Right



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Present Date/Time: 2022-06-01 17:10:03

Fig. 3B r2

Left

Right

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Image Name: F:\Original gels\Fig 4C.gel

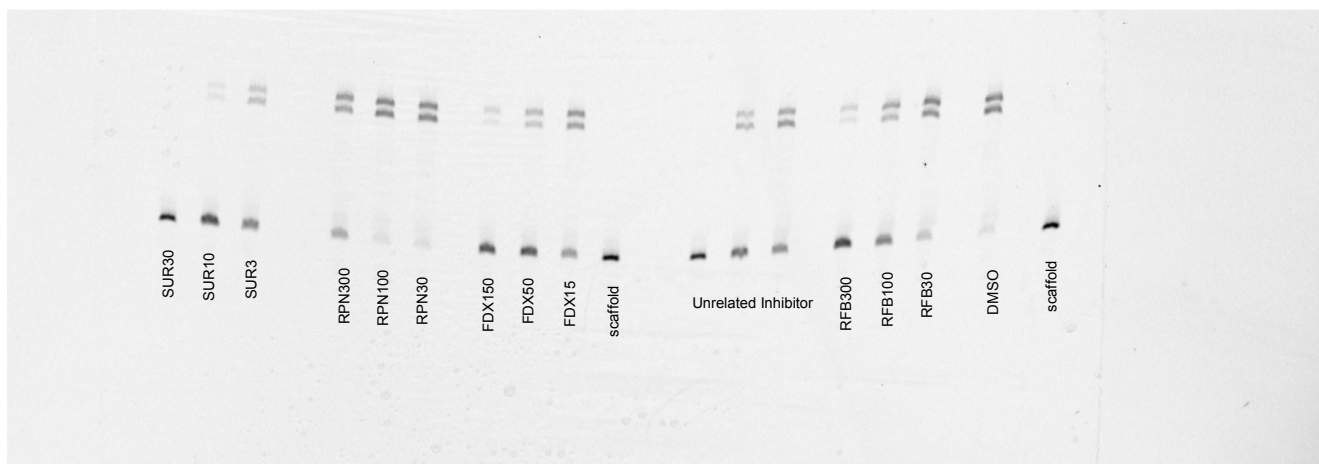
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Fig. 4C



File/Range: F:\Original gels\Fig 4D r1.gel / 14.64-10002 Counts /Magnification - 1.00

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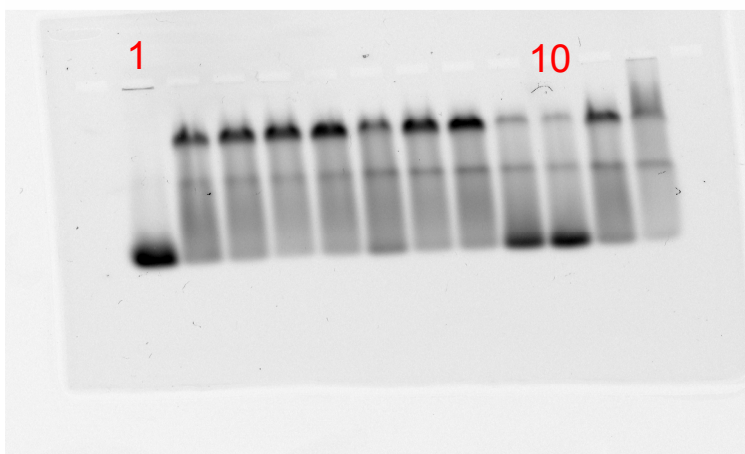
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Prep. Date/Time: 2022:03:21 13:09:49

Fig. 4D r1



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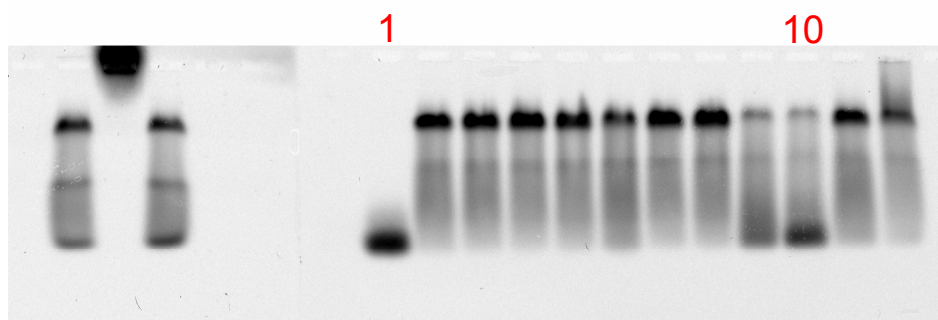
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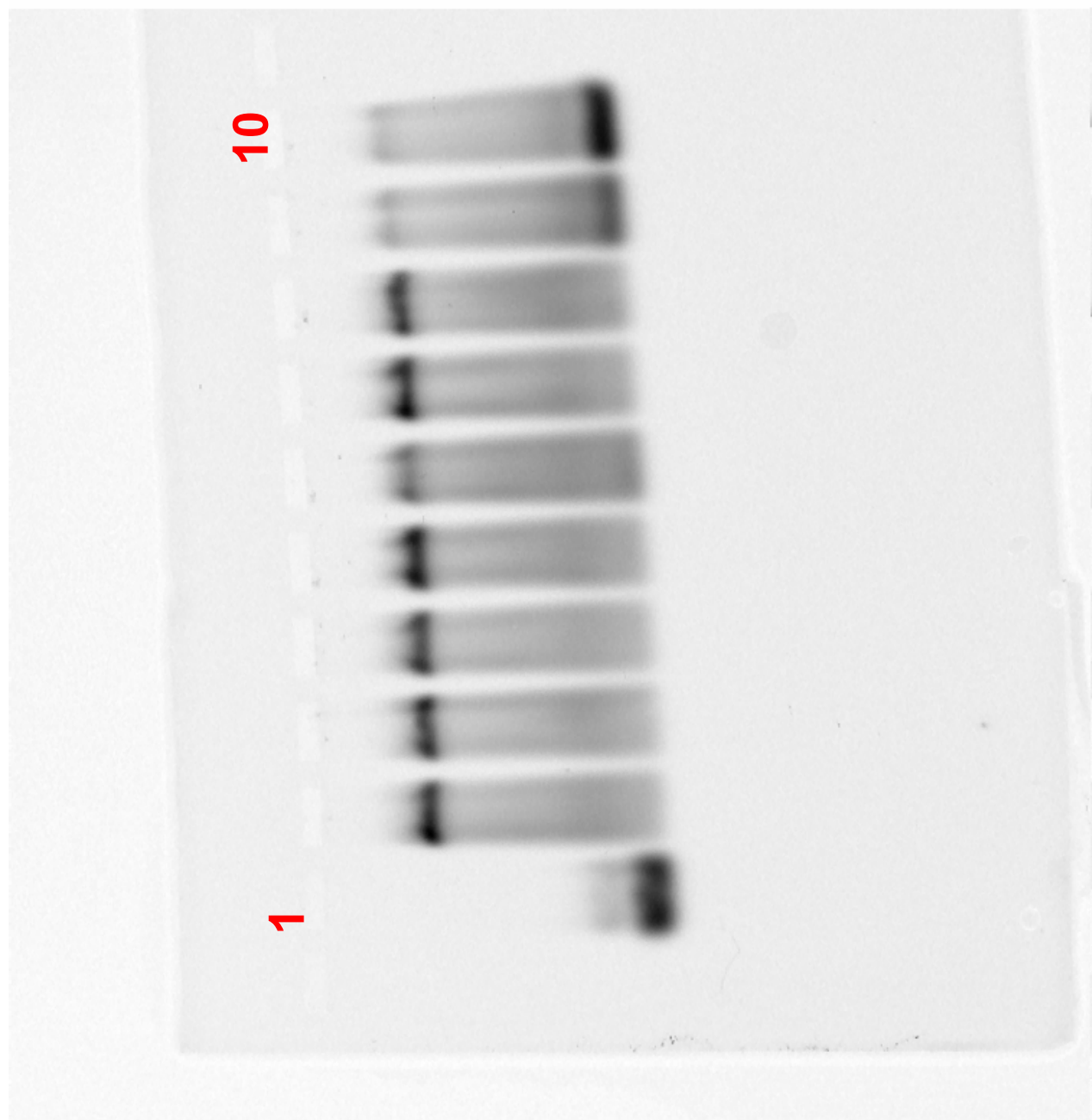
Fig. 4D r2



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Scan Date/Time  
Prep. Date/Time

Fig. 4D r3





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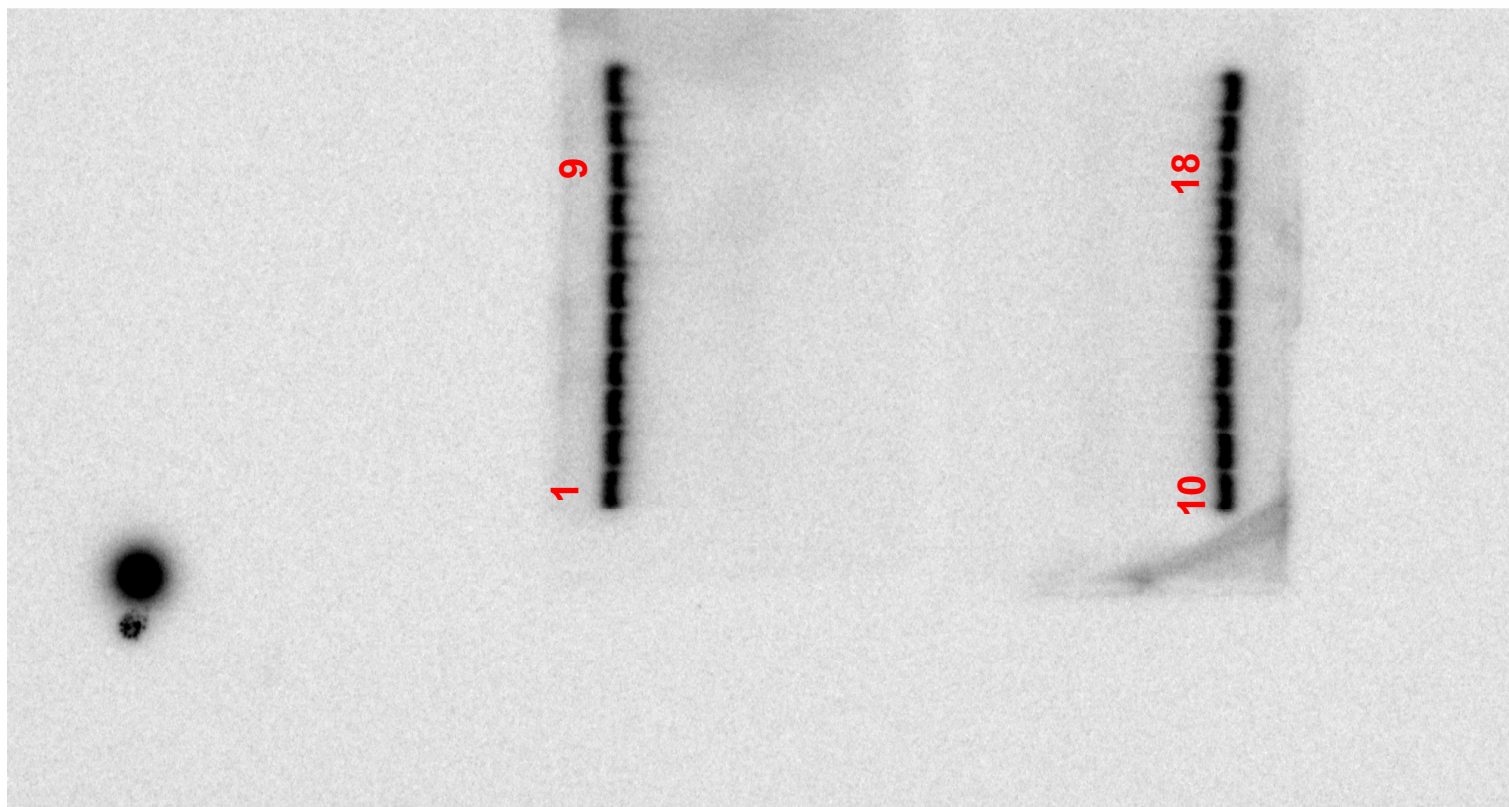
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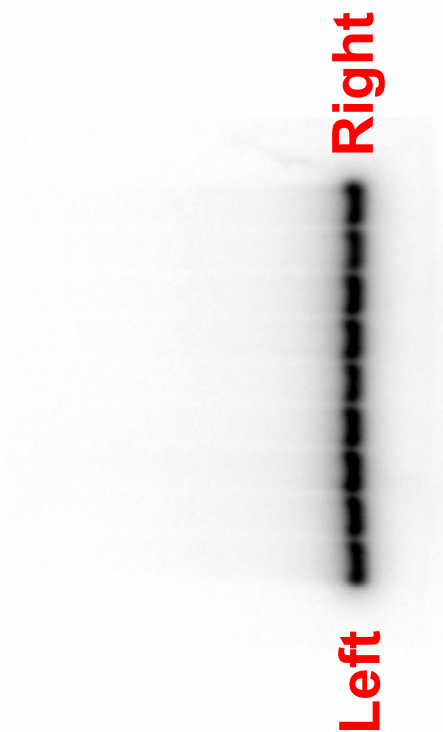
Fig. 4E r1



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Fig. 4E r2



File/Range: F:\Original gels\Fig 5B.gel / 128.3-2801 Counts /Magnification - 0.50

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Image Name: F:\Original gels\Fig 5B.gel

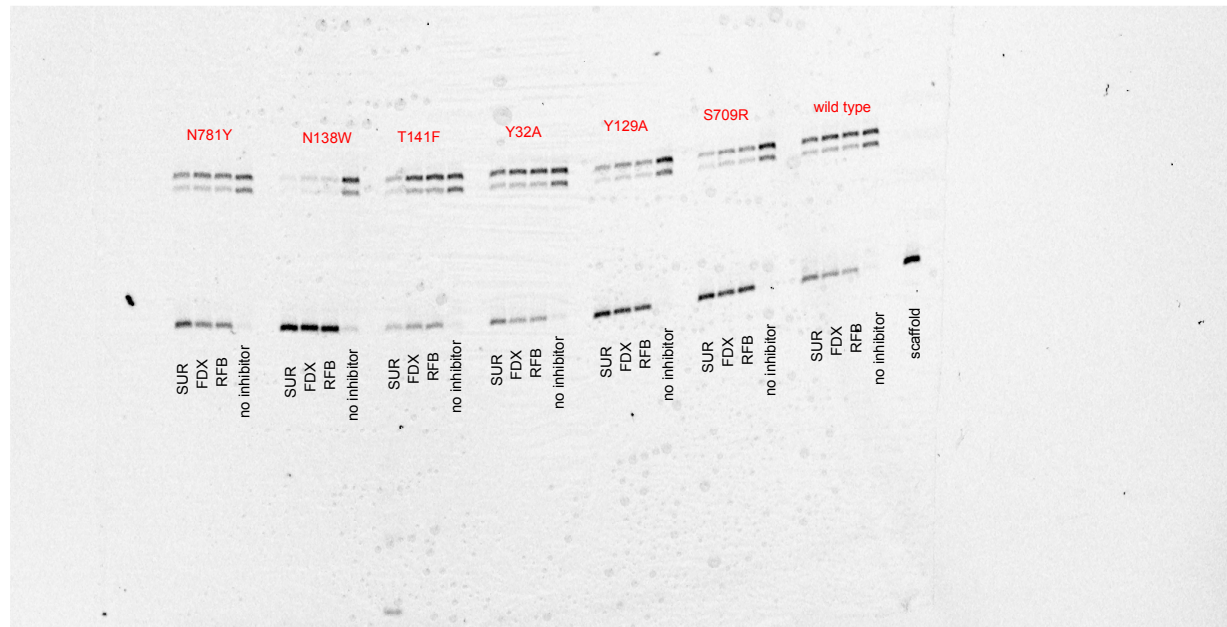
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Prep. Date/Time: 2022:03:18 13:24:34

Fig. 5B



File/Range: F:\Original gels\Fig 5B\_R2.gel / 39.23-5001 Counts /Magnification - 0.50

User Name: Artsimovitch Lab

Image Name: F:\Original gels\Fig 5B\_R2.gel

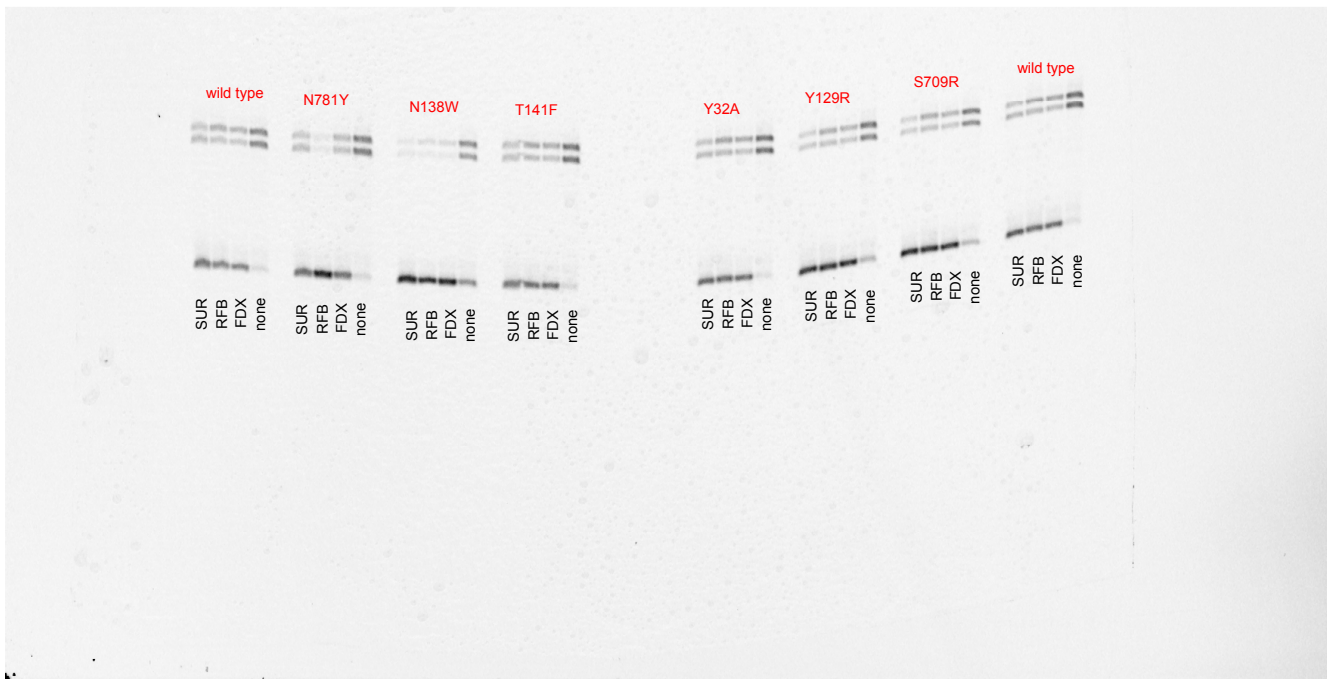
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Prep. Date/Time: 2022:03:17 11:29:30

Fig. 5B r1



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Scan Date/Time: 2022:03:17 16:27:15

Prep. Date/Time: 2022:03:17 16:27:15

Fig. 5B r2

