**30\_11\_16 TEM Imaging Procedure**

1. A1 – ZigZag (annealed 1x TAE 24mM Mg)

1M MgCl2 Unstained with U.F. solution

1. B1 - ZigZag (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained with 1% U.F. solution

1. C1 - Tube With Cork/TWC (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained with 1% U.F. solution

1. D1 – Dimer Tube (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained with 1% U.F. solution

1. E1 – Puller 4pN (annealed 1x TAE 24mM Mg)

Stained 2% U.F. 25mM NaOH solution (NO Mg)

1. A2 - Puller 4pN (annealed TE 20mM Mg)

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. B2 - Puller 4pN (annealed TE 20mM Mg)

1M MgCl2 Stained 1% U.F solution

1. A3 – Grid only

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. E2 - ZigZag (annealed 1x TAE 24mM Mg)

1% U.F. solution (NO Mg)

1. C2 - ZigZag (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

1. D2 - Dimer Tube (annealed 1x TAE 24mM Mg)

1M MgCl2 Stained 2% U.F. 25mM NaOH solution

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|  | **ZigZag** | **ZigZag + Mg** | **TWC** | **TWC + Mg** | **TWC Dimer** | **TWC Dimer +Mg** | **Puller** | **Puller**  **+ Mg** |
| **1% U.F.** | E2 | B1 |  | C1 |  | D1 |  | B2 |
| **2% U.F. 25mM NaOH** |  | C2 |  |  |  | D2 | E1 | A2 |