

这是我在实验室纯化的一个蛋白的（最后成功的一次）实验记录。

这个蛋白我前后一共花了3个月，尝试了四五次，终于彻底摸清楚性质并成功纯化。同时，我第一次成功纯化就将收率翻了整整10倍，因此令我印象十分深刻。

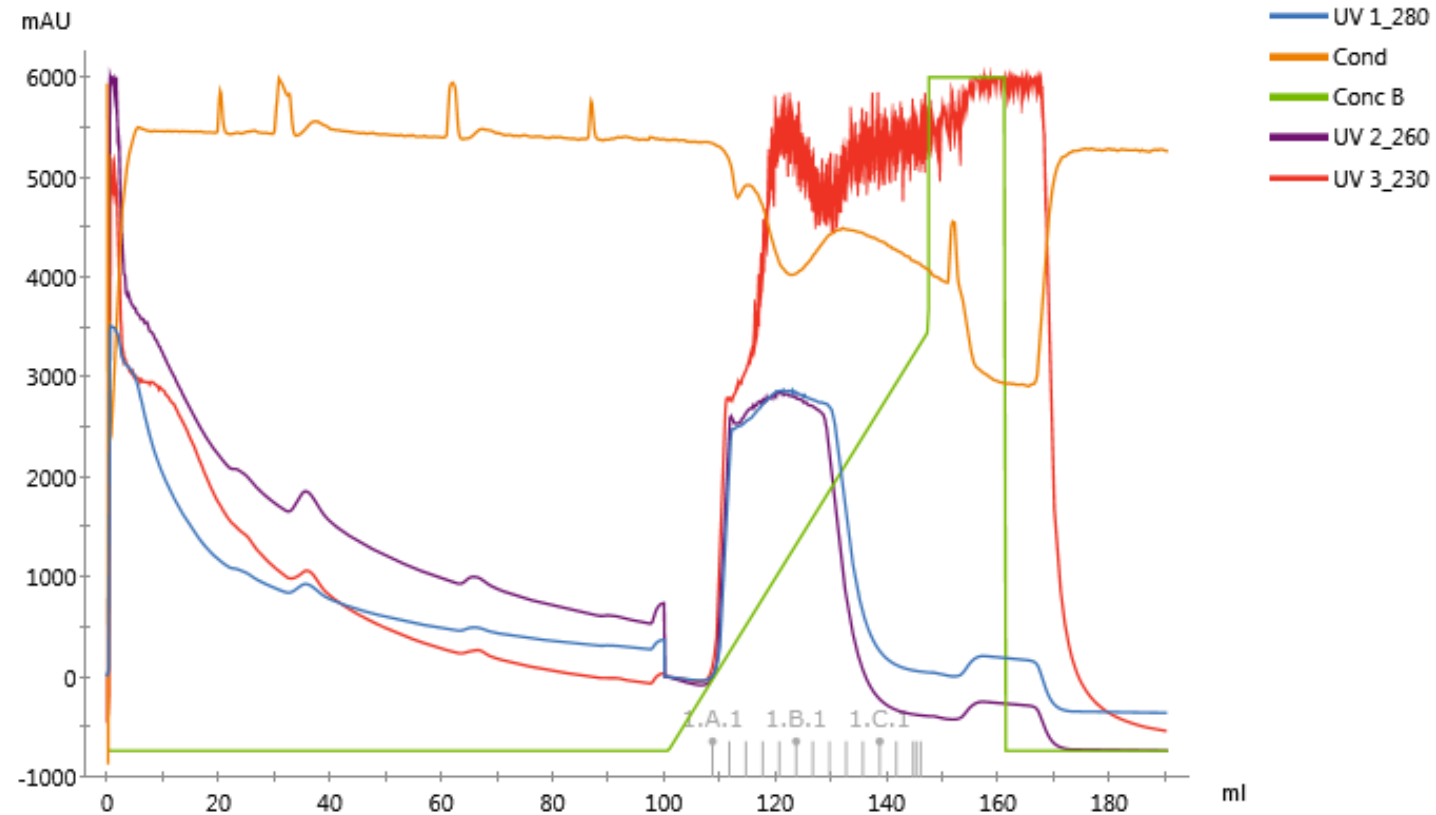
Human eEF1a1 H95A purification

安茗炫

Hisppase purification

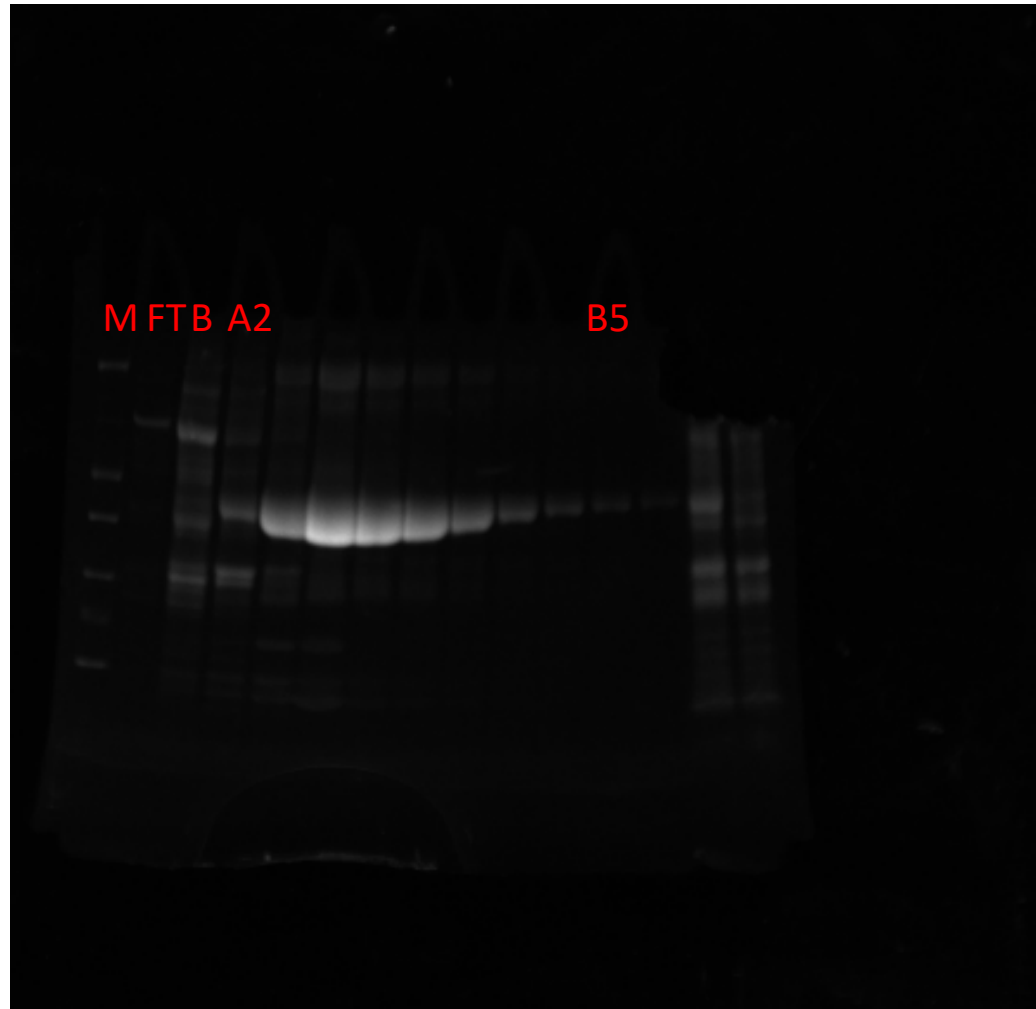
- Histrap

Hisppase Histrap 221029



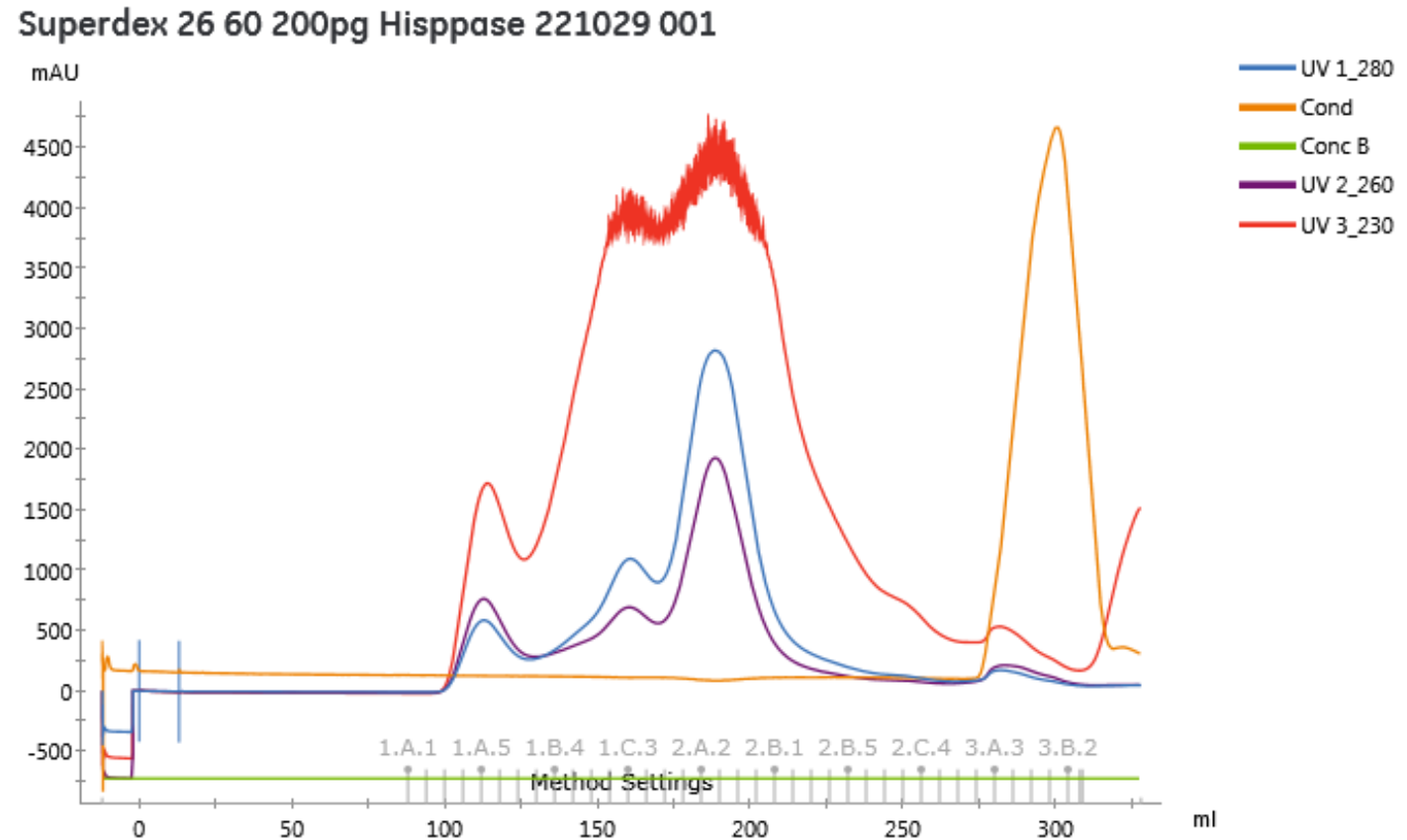
Hisppase purification

- Histrap
- Collect A3-B3



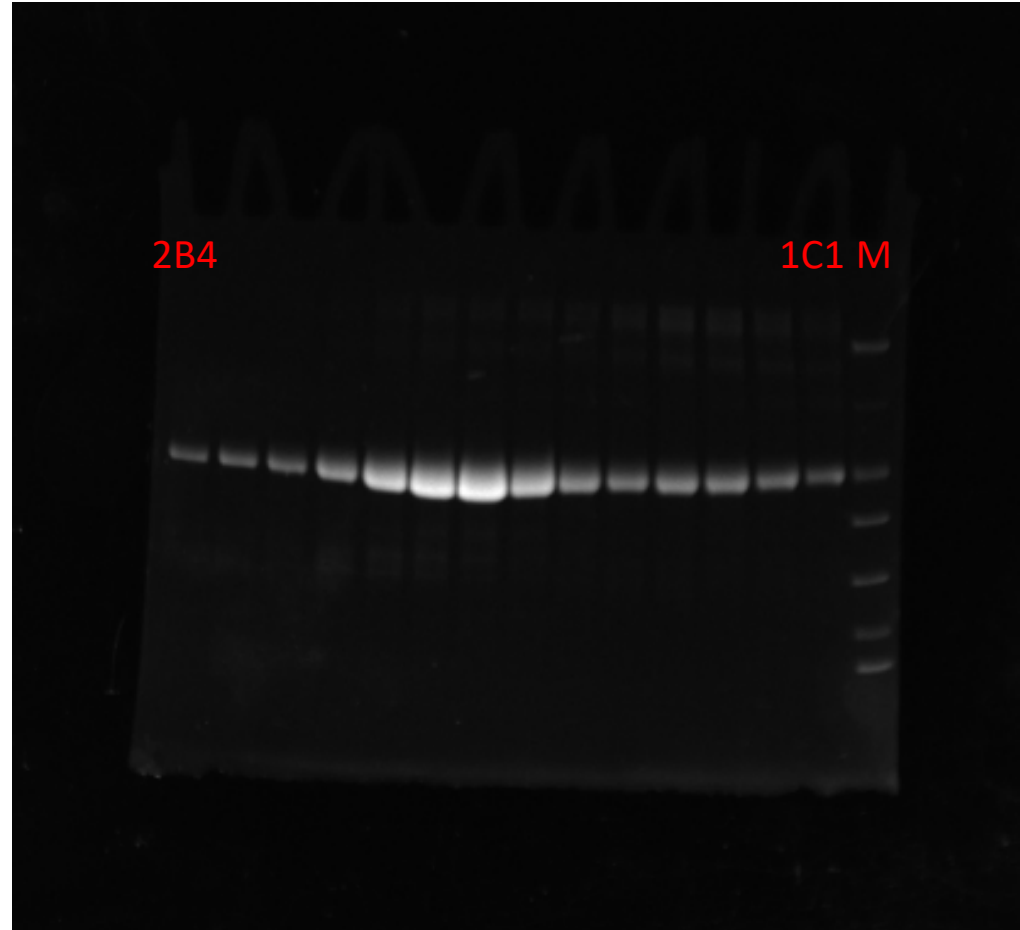
Hisppase purification

- Superdex 26 60 200pg



Hisppase purification

- Superdex 26 60 200pg
- Collect 2A1-2B4

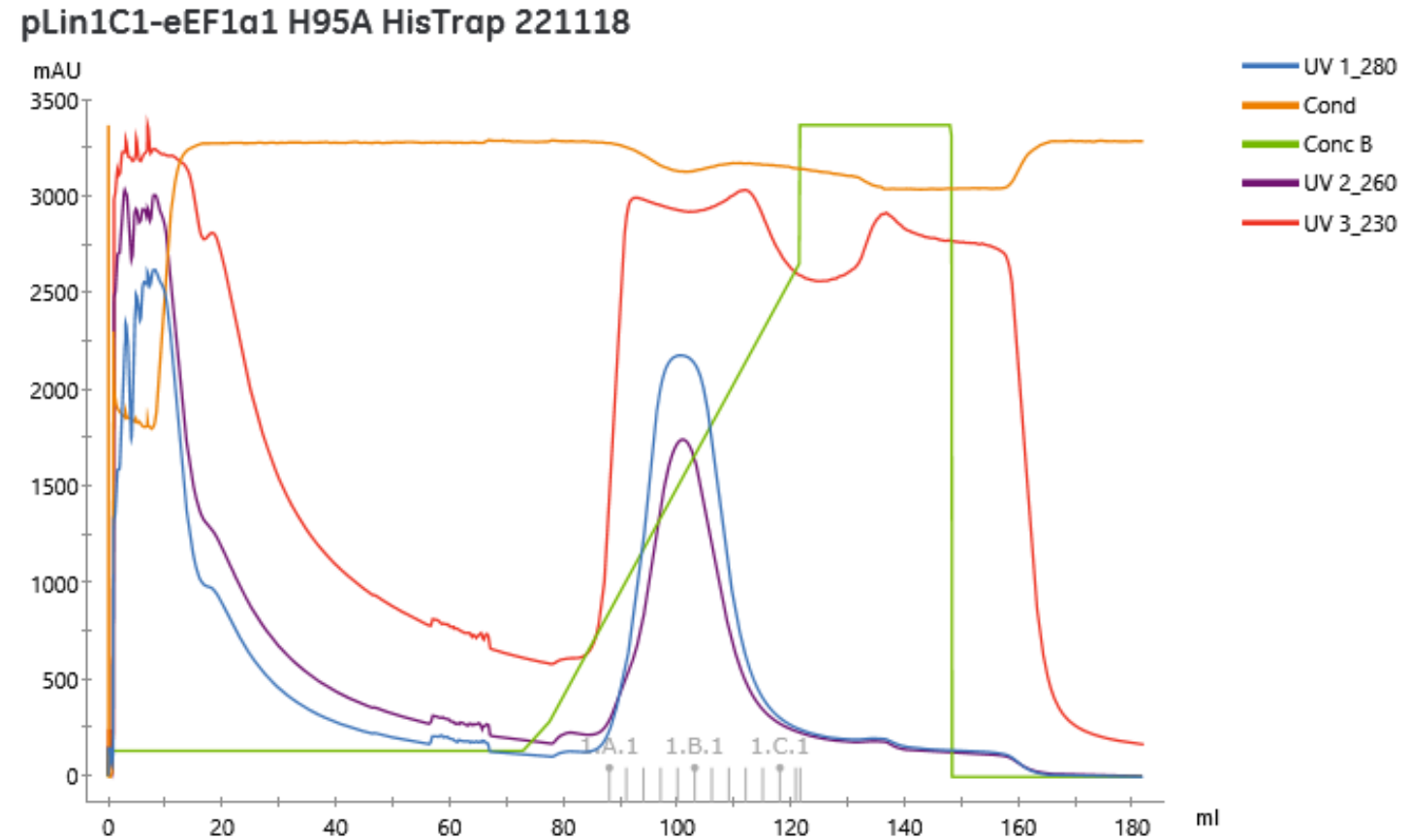


Hisppase purification

- Final concentration: 5.93mg/mL for ~13.2mL
- Total: 78.3mg
- Store 200μL*46+1mL*4 at -80°C
- Used for cutting the MBP-tag; add 1:100 to protein solution

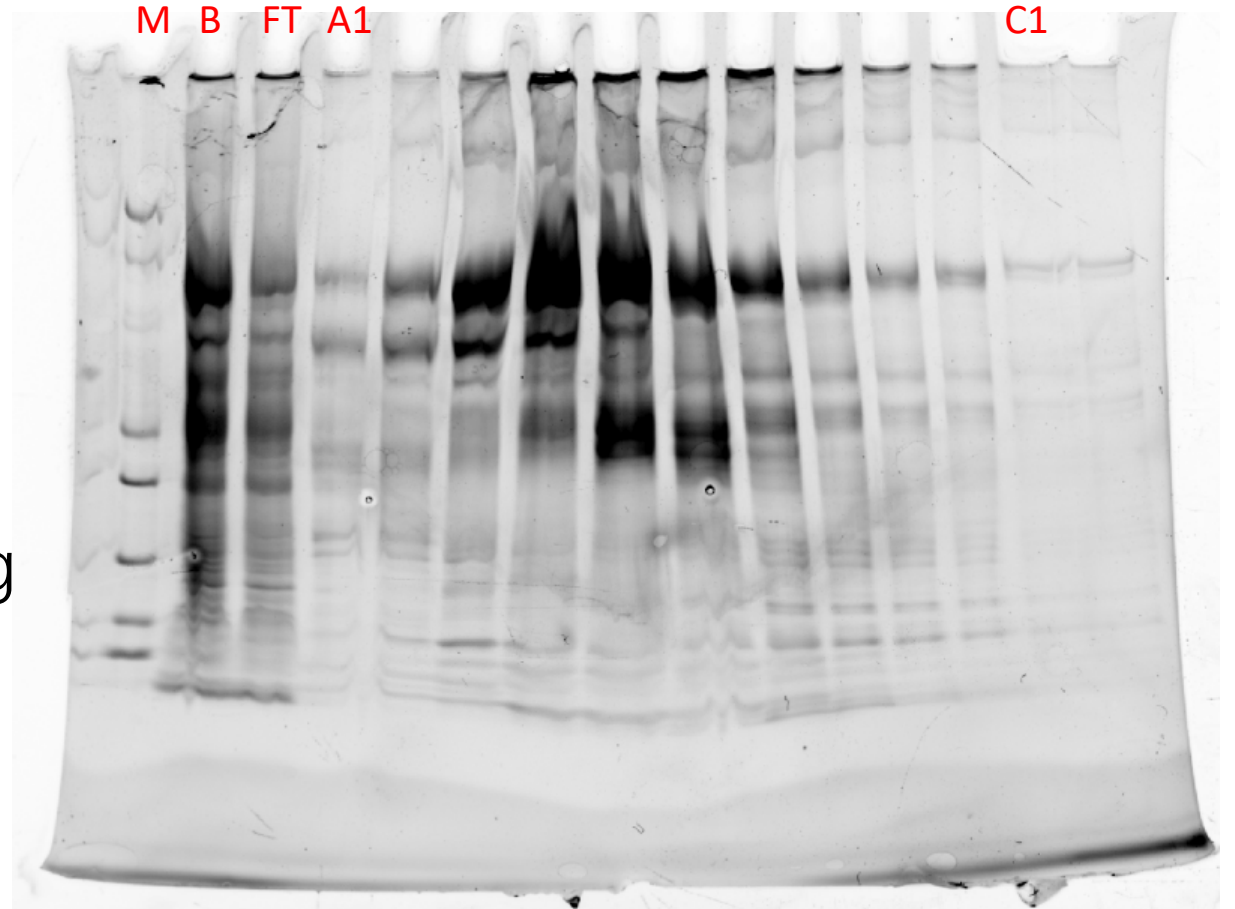
eEF1a1 (human origin) H95A purification

- Histrap



eEF1a1 (human origin) H95A purification

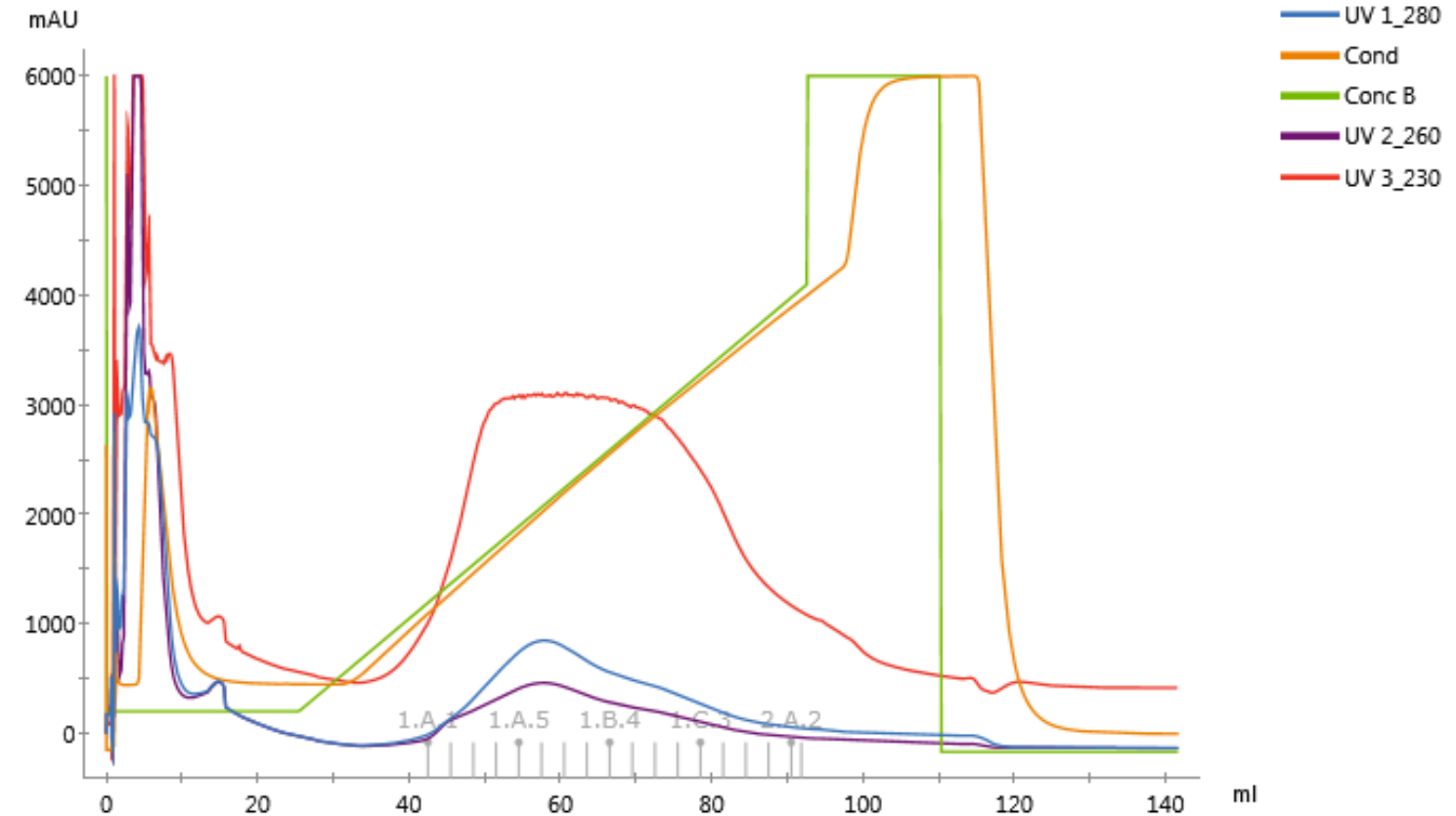
- Histrap
- Collect A2-B5
- Add low salt buffer (1:1.5) and then Prescission (1:100), 4°C overnight to cut MBP tag



eEF1a1 (human origin) H95A purification

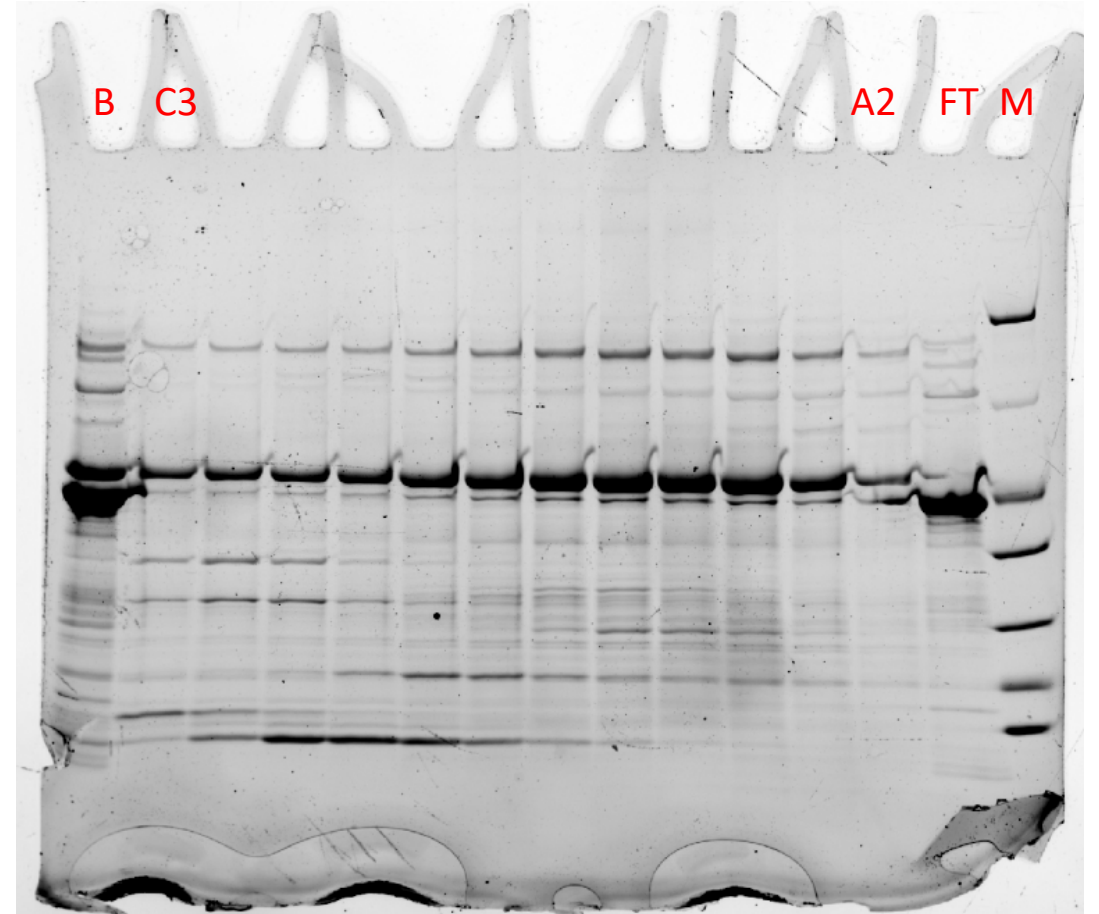
- Heparin

pLin1C1-eEF1a1 H95A Heparin 221119



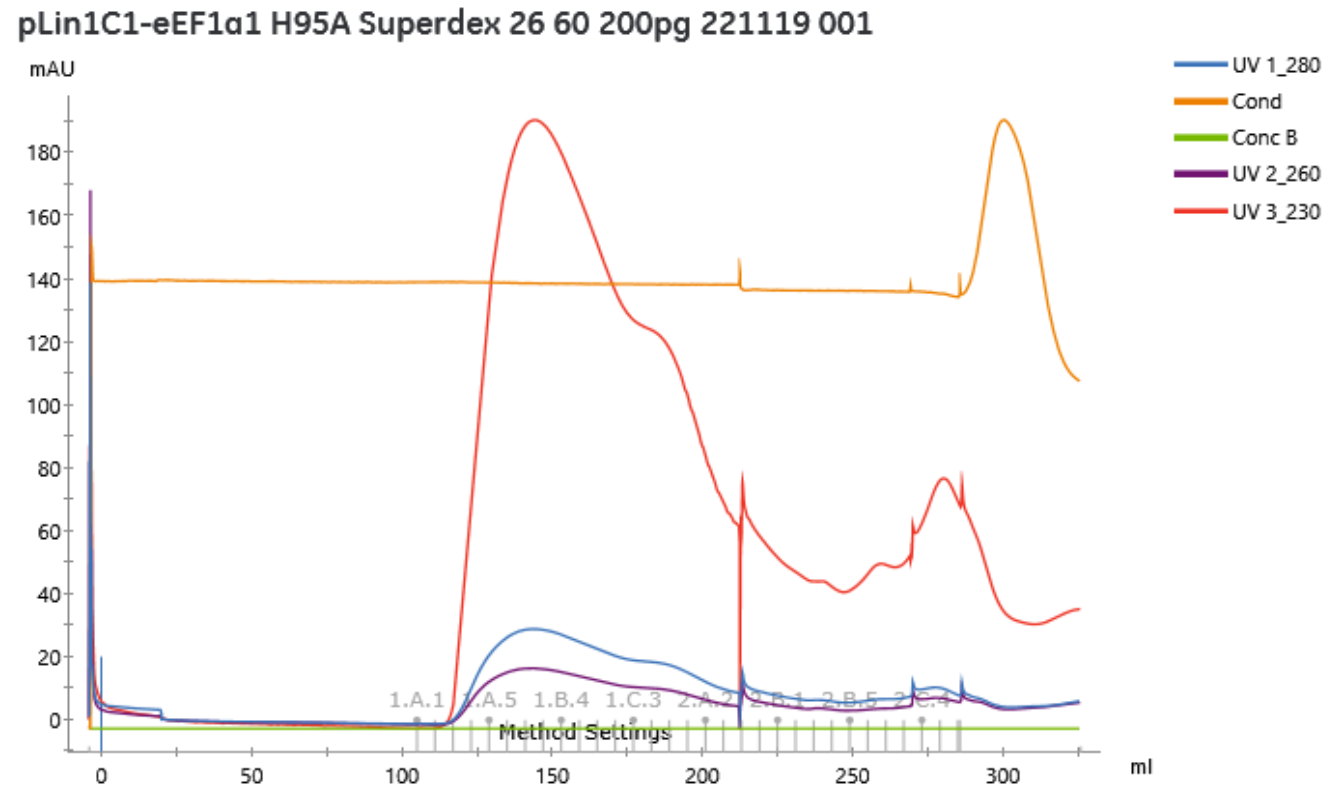
eEF1a1 (human origin) H95A purification

- Heparin
- Collect A2-C5, and concentrate to ~9mL



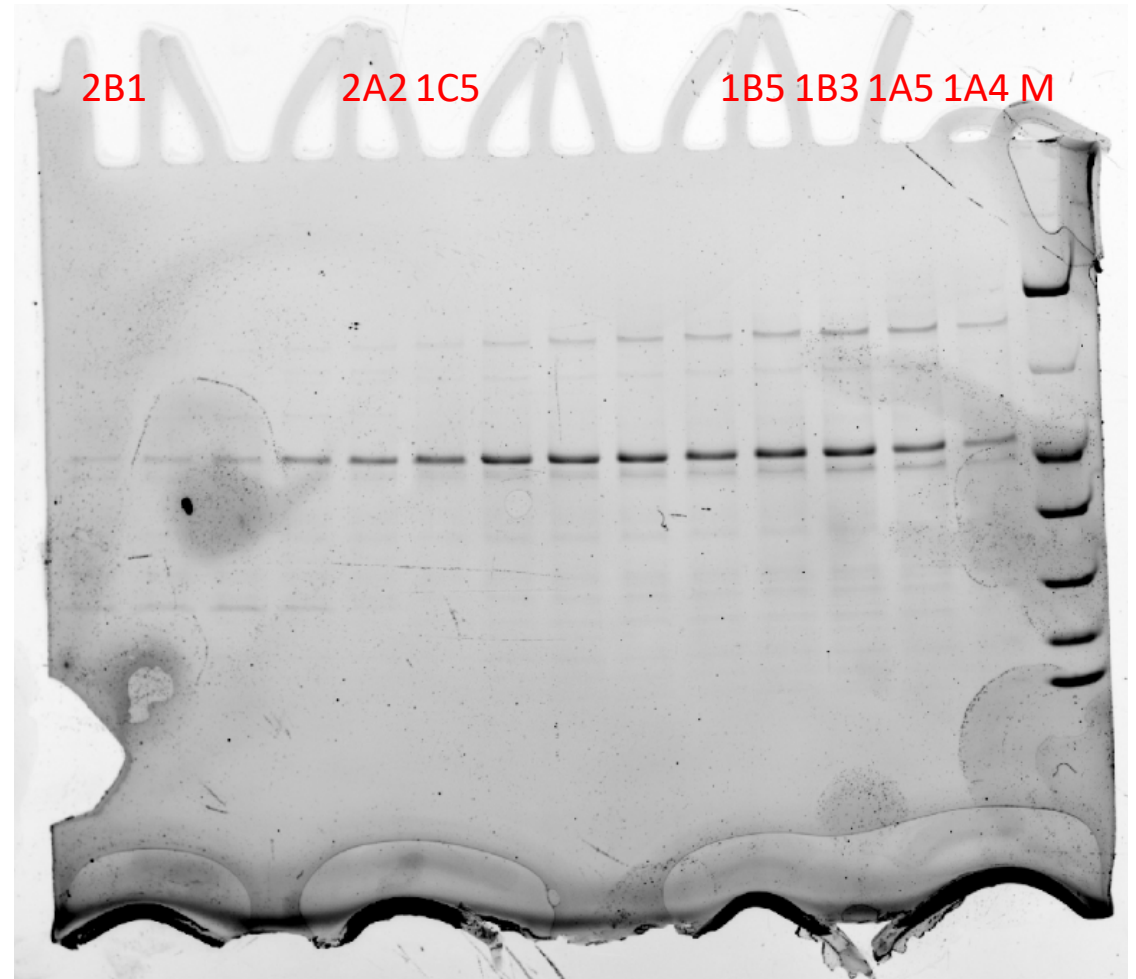
eEF1a1 (human origin) H95A purification

- Superdex 26 60 200pg



eEF1a1 (human origin) H95A purification

- Superdex 26 60 200pg
- Collect 1A5-2A3



eEF1a1 (human origin) H95A purification

- Divide into 2 parts: 1A5-1C3 and 1C4-2A3 (high purity)
- Final concentration: 3.40mg/mL for 1450 μ L and 3.80mg/mL for 440 μ L (high purity)
- Store: 50 μ L*29 and 20 μ L*22 at -80°C
- Total: $4.93+1.67=6.60$ mg