

## Full-length huntingtin Q23 expression and purification – 25<sup>th</sup> January 2018

### Rationale:

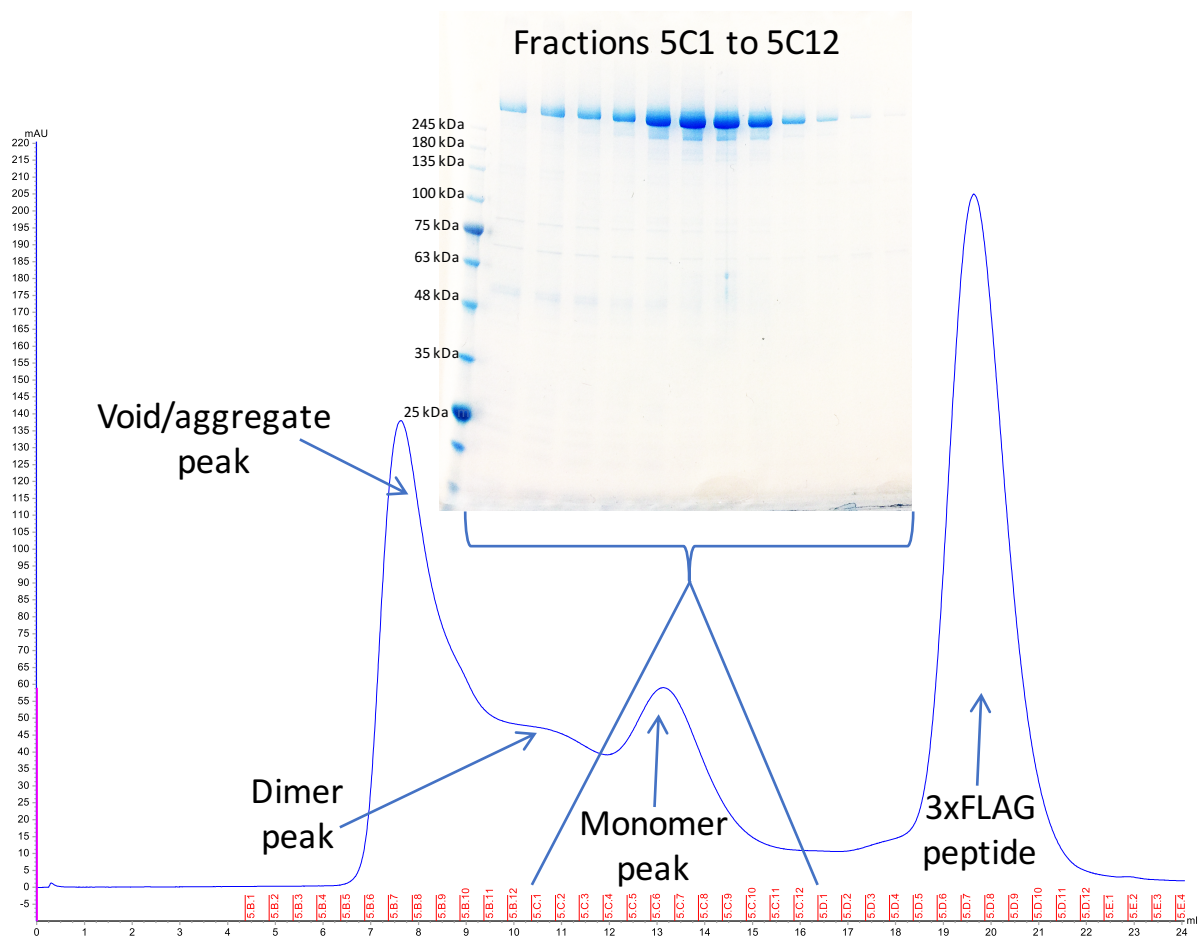
Purified huntingtin sample is required for use in binding assays and post-translational modification analysis.

### Growth:

4 L BVES production for TOC009-D01 (HTT<sup>1-3144</sup> pBACMAM C-terminal FLAG). Cells were harvested by centrifugation, resuspended in ~200 mL 50 mM Tris pH 8, 500 mM NaCl supplemented with 1 x protease inhibitors and then the pastes were stored at -80 °C prior to purification. Full methods are here: <https://zenodo.org/record/154611>

### Purification:

Cell pastes thawed and diluted to 500 mL with 50 mM Tris pH 8, 500 mM NaCl and supplemented with benzonase. NB: freeze-thaw cycle for cells is sufficient for lysis. The lysate was clarified by centrifugation and then bound to 5 mL anti-FLAG resin (Sigma M2) at 4 °C with rocking for 2 hours. Resin was washed with 1000 mL 50 mM Tris pH 8, 500 mM NaCl. HTT protein was eluted with ~15 mL resuspension buffer supplemented with 250 µg/mL 3xFLAG peptide. The sample was concentrated to 1 mL and run on Superose 6 10/300 GL column in 50 mM Tris pH 8, 500 mM NaCl.



Monomer peak concentrated to 4 mg/mL and flash frozen in 5 x 20 µL aliquots in N<sub>2</sub> (l).