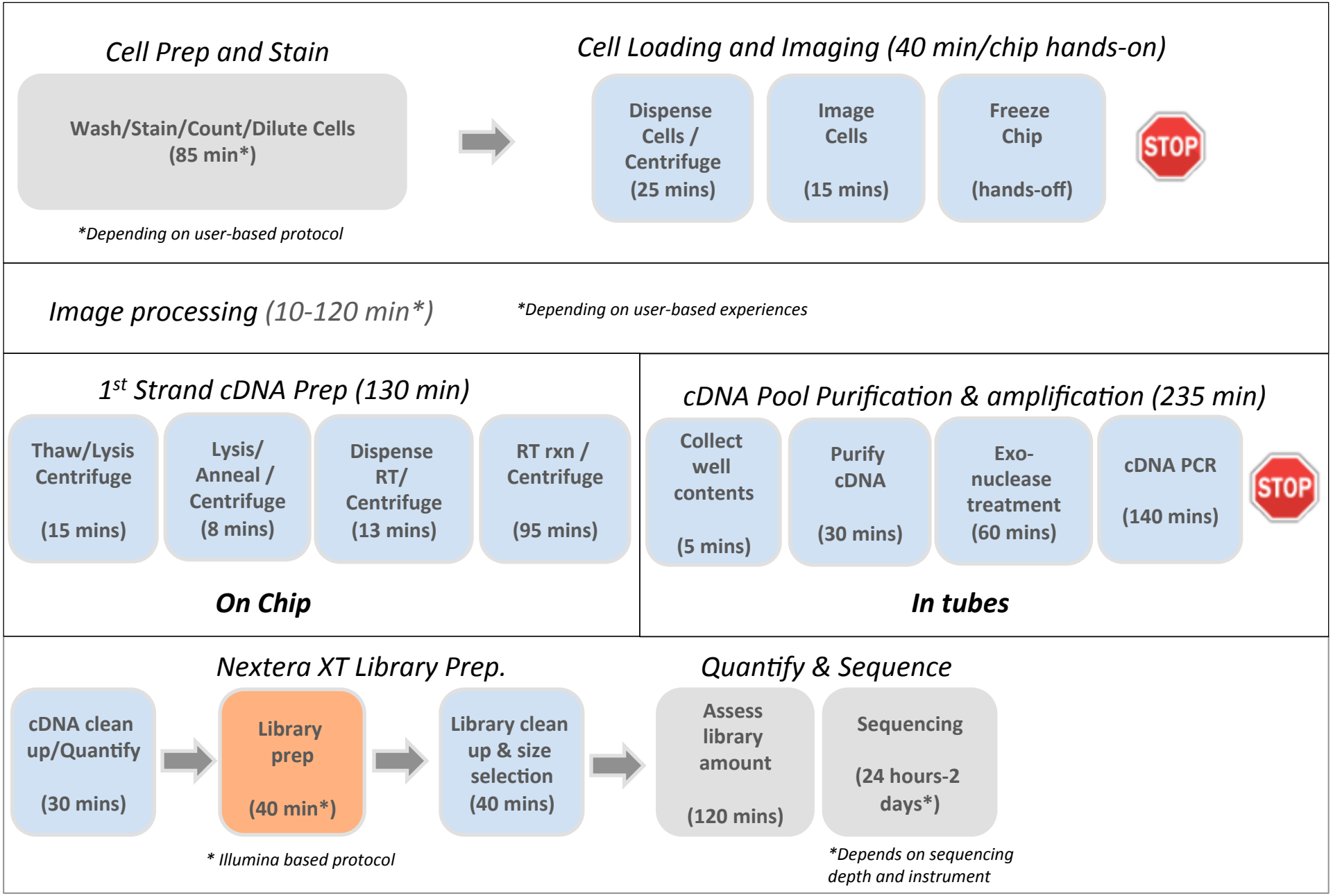
Fig. S1


Cell Prep and Stain
Wash/Stain/Count/Dilute Cells (85 min*)
*Depending on user-based protocol
Cell Loading and Imaging (40 min/chip hands-on)
Dispense Cells / Centrifuge (25 mins)
Image Cells (15 mins)
Freeze Chip (hands-off)
STOP
Image processing (10-120 min*)
*Depending on user-based experiences
1st Strand cDNA Prep (130 min)
Thaw/Lysis Centrifuge (15 mins)
Lysis/ Anneal / Centrifuge (8 mins)
Dispense RT/ Centrifuge (13 mins)
RT rxn / Centrifuge (95 mins)
On Chip
cDNA Pool Purification & amplification (235 min)
Collect well contents (5 mins)
Purify cDNA (30 mins)
Exo-nuclease treatment (60 mins)
cDNA PCR (140 mins)
STOP
In tubes
Nextera XT Library Prep.
cDNA clean up/Quantify (30 mins)
Library prep (40 min*)
Library clean up & size selection (40 mins)
* Illumina based protocol
Quantify & Sequence
Assess library amount (120 mins)
Sequencing (24 hours-2 days*)
*Depends on sequencing depth and instrument