A) Collection of all qualified probe sequences within each window

START: Next window?

- Any existing selected probe in the window?
  - NO: SKIP
  - YES: Proceed with the next step

Next probe sequence in the window

Test – selected probes within minimal distance?

- NO: Collect probe quality properties
- YES: Exclude me

B) Selection of the highest quality probe within the window

BLAST levels 1-4

- Level 1, no: Any probes? YES
- Level 2, no: Any probes? YES
- Level 3, low: Any probes? YES
- Level 4, high: Any probes? YES

Collect all probes on the same BLAST level

SORT

- Deviance from Tm-median
- Probe self-annealing
- BLAST percentage identity
- BLAST identity stretch
- Probe sequence length
- Probe position

Select highest quality probe