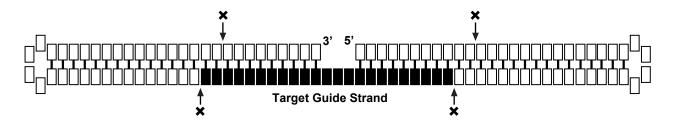
Asymmetric siRNA (A-siRNA): Direct-to-RISC

LIFECYCLE: Rapid pre-cursor processing by RNase III via tetraloop and single dsRBD for 11/13 or 14/16 stem removal on both 5' & 3' ends.

MECHANISM: Loads in RISC complex via 3' overhang for Ago. The duplex guides RISC to the target asymmetrically and eliminates sense strand off-target.

Native A-siRNA Pre-cursor:



STEP 1: RNase III removes stem-loops

