The Life Cycle of a Retrovirus

ENTRY INTO CELL AND LOSS OF ENVELOPE

LOSS OF VIRAL CAPSID

SYNTHESIS OF A DNA/RNA AND THEN A DNA/DNA DOUBLE HELIX BY REVERSE TRANSCRIPTASE

INTEGRATION OF DNA COPY INTO HOST CHROMOSOME

TRANSCRIPTION BY HOST CELL RNA POLYMERASE MAKES MANY RNA COPIES

TRANSLATION

ENVELOPE PROTEIN

capsid protein

VIRAL BUDDING

new progeny virus particles each containing reverse transcriptase

TRANSLATION

INTEGRATED DNA OF VIRUS

PORTION OF HOST CELL CHROMOSOME

ASSEMBLY

CYTOSOL

new progeny virus particles each containing reverse transcriptase