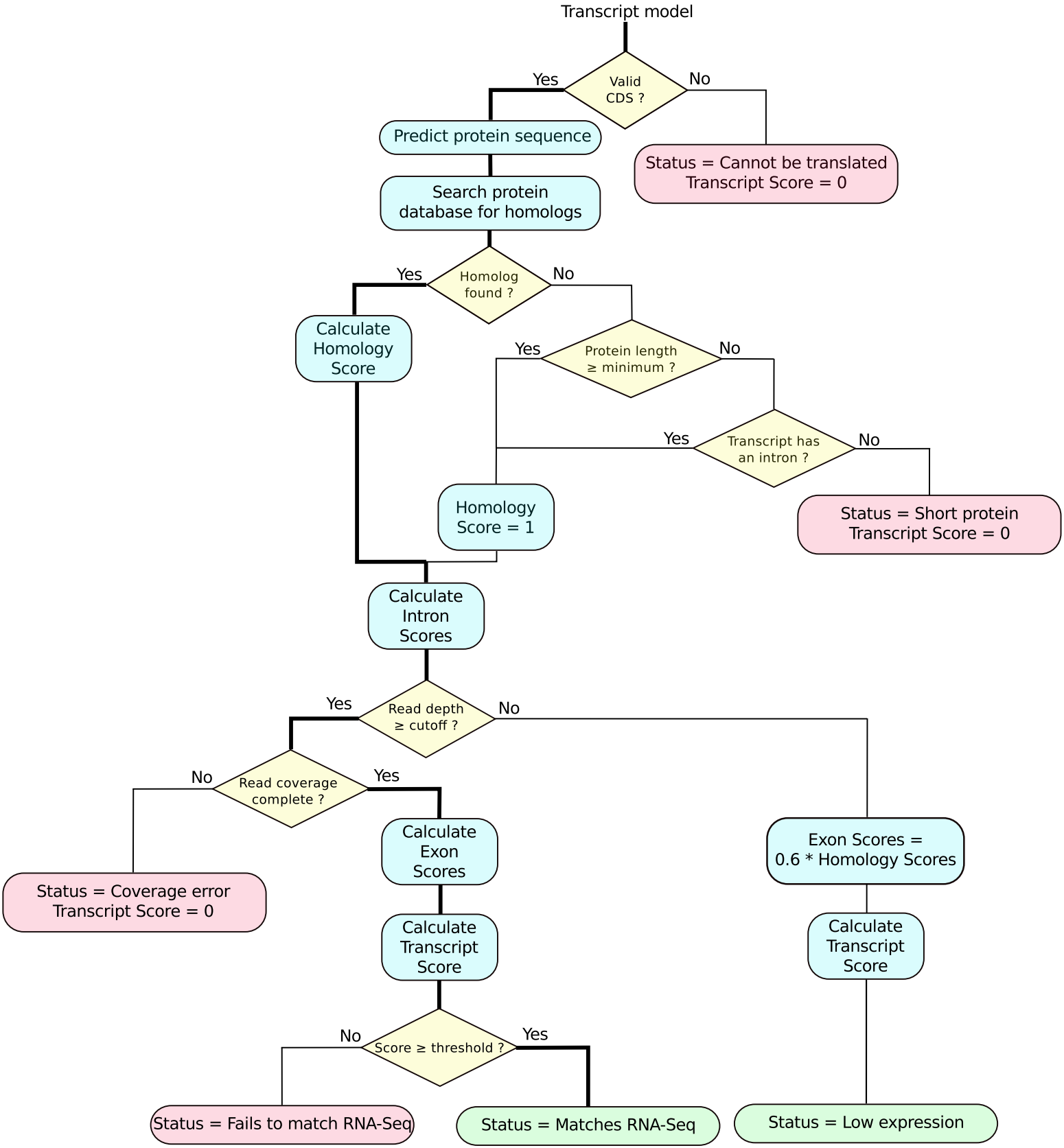
Transcript model
Valid CDS ?
Yes
No
Predict protein sequence
Status = Cannot be translated
Transcript Score = 0
Search protein database for homologs
Homolog found ?
Yes
No
Calculate Homology Score
Protein length ≥ minimum ?
Yes
No
Transcript has an intron ?
Yes
No
Homology Score = 1
Status = Short protein
Transcript Score = 0
Calculate Intron Scores
Read depth ≥ cutoff ?
Yes
No
Read coverage complete ?
No
Yes
Status = Coverage error
Transcript Score = 0
Calculate Exon Scores
Exon Scores = 0.6 * Homology Scores
Calculate Transcript Score
Calculate Transcript Score
Score ≥ threshold ?
No
Yes
Status = Fails to match RNA-Seq
Status = Matches RNA-Seq
Status = Low expression