

TFit Output Parameters

When run, TFit outputs a file in the format *_K_Models_MLE.tsv, which contains a series of parameters. The output is formatted as:

- Single line of:

```
ID|chrom:start-stop|forward coverage, reverse coverage
```

- Multiple lines of:

```
model complexity, log_likelihood \  
mu_k sigma_k lambda_k pi_k fp_k w_[p,k],w_[f,k],w_[r,k], b_[f,k] a_[r,k]
```

Parameter Descriptions

- \sim INT: Placed at the start of the output line, this variable represents the model complexity level for the given output parameters.
- μ_k : Predicted Center of Bidir Transcription (Roughly the TSS)
- σ_k : Variance in μ .
- λ_k : Entry Length (Initiation Distance)
- π_k : Strand Bias
- fp_k : Footprint (the distance between bidir peaks)
- w : Mixture model weights (how we mix Loading/Initiation/Elongation distributions)
- $l_s = \{l_+, l_-\}$: Predicted elongation components
 - $l_+ = b$: Positive Strand Termination
 - $l_- = a$: Negative Strand Termination