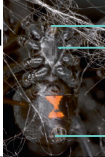


Sequenced  
cDNAs  
(**Million  
Reads**)



Venom Gland

Cephalothorax

Total Silk  
Glands

RNA-Seq  
(*Illumina*)

Venom

Ceph.

Silk

Clean  
Reads  
(*Perl Script*)

Venom

Ceph

Silk

72.8

99.2

17.1

53.7

67.8

17.1

Tissue-Specific  
Assemblies  
(**Trinity Sequences**)

Venom

66,398

Ceph

91,619

Silk

17,901

Combine  
Redundant  
Sequences  
(*Cap3*)

Venom

85,193

Ceph

114,418

Silk

19,306

Assemble  
Reads  
(*Trinity*)

Black Widow  
Transcriptome  
(**Assembled  
Transcripts**)

Combine  
Assemblies  
(*Cap3*)

105,018

Remove  
Short  
Peptides  
(*getORF*)

Full  
Assembled  
Transcripts

103,635

Remove  
Identical  
Proteins  
(*BLASTCLUST*)

Unique  
Assembled  
Transcripts  
**97,217**