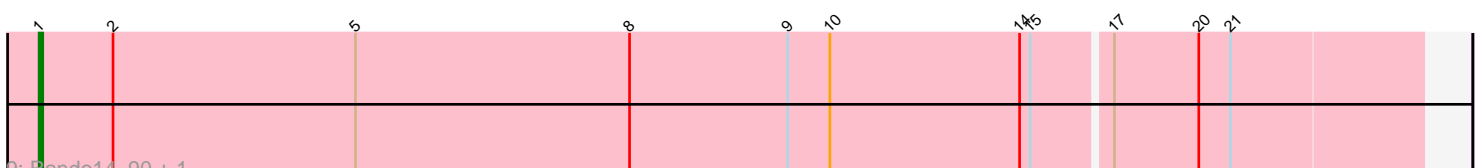
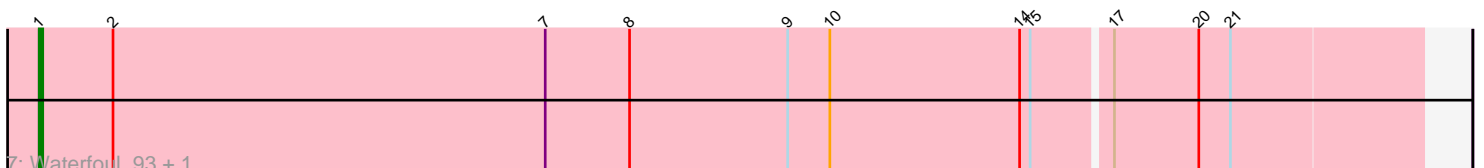
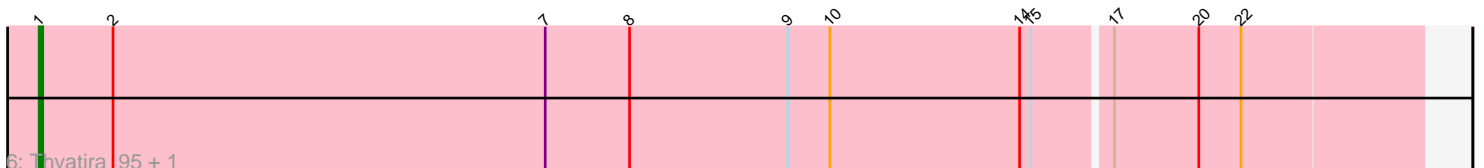
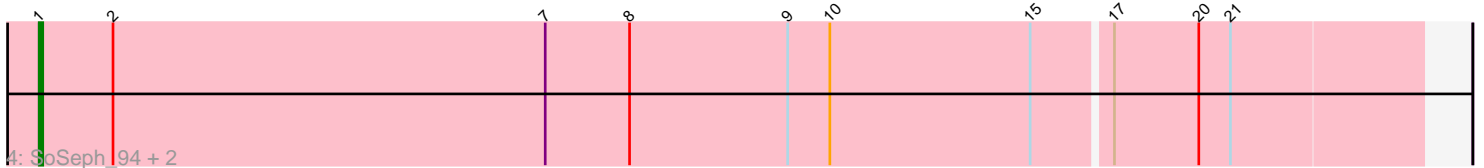
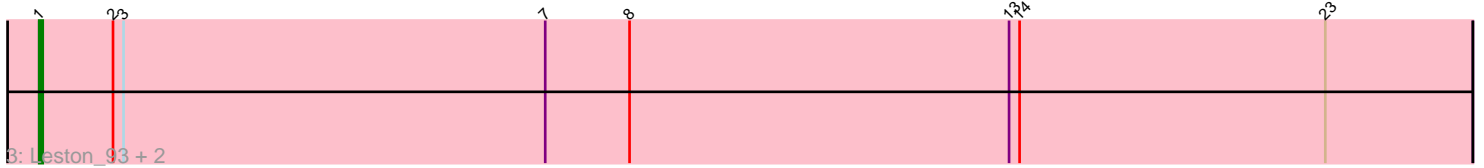
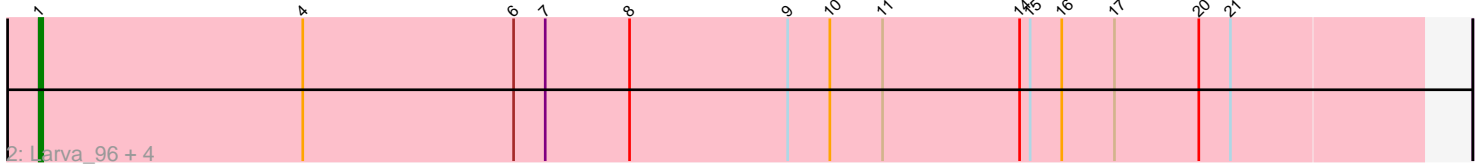
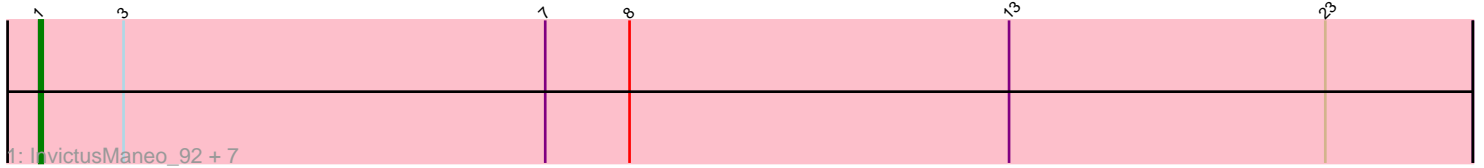


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 305244 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305244 has 27 members, 2 are drafts.

Phages represented in each track:

- Track 1 : InvictusManeo\_92, Collard\_93, DoubleChamp\_93, Agent47\_94, ViviJ\_101, Kratio\_98, BananenDer11\_95, LilDirt\_95
- Track 2 : Larva\_96, AlleyCat\_97, Dadosky\_97, Psycho\_95, Neighly\_97
- Track 3 : Leston\_93, Guillsminger\_93, Paola\_91
- Track 4 : SoSeph\_94, Feyre\_96, Heftyboy\_94
- Track 5 : OkiRoe\_94
- Track 6 : Thyatira\_95, Gengar\_93
- Track 7 : Waterfoul\_93, Miryou\_95
- Track 8 : Edugator\_90
- Track 9 : Rando14\_90, Omnicron\_93

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 1, it was called in 25 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agent47\_94, AlleyCat\_97, BananenDer11\_95, Collard\_93, Dadosky\_97, DoubleChamp\_93, Edugator\_90, Feyre\_96, Gengar\_93, Guillsminger\_93, Heftyboy\_94, InvictusManeo\_92, Kratio\_98, Larva\_96, Leston\_93, LilDirt\_95, Miryou\_95, Neighly\_97, OkiRoe\_94, Omnicron\_93, Paola\_91, Psycho\_95, Rando14\_90, SoSeph\_94, Thyatira\_95, ViviJ\_101, Waterfoul\_93,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 1:

- Found in 27 of 27 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 25 of 25

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agent47\_94 (K5), AlleyCat\_97 (K5), BananenDer11\_95 (K5), Collard\_93 (K5), Dadosky\_97 (K5), DoubleChamp\_93 (K5), Edugator\_90 (K5), Feyre\_96 (K5), Gengar\_93 (K5), Guillsminger\_93 (K5), Heftyboy\_94 (K5), InvictusManeo\_92 (K5), Kratio\_98 (K5), Larva\_96 (K5), Leston\_93 (K5), LilDirt\_95 (K5), Miryou\_95 (K5), Neighly\_97 (K3), OkiRoe\_94 (K5), Omnicron\_93 (K5), Paola\_91 (K5), Psycho\_95 (K5), Rando14\_90 (K5), SoSeph\_94 (K5), Thyatira\_95 (K5), ViviJ\_101 (K5), Waterfoul\_93 (K5),

### Summary by clusters:

There are 2 clusters represented in this pham: K3, K5,

Info for manual annotations of cluster K5:

- Start number 1 was manually annotated 25 times for cluster K5.

### Gene Information:

Gene: Agent47\_94 Start: 59166, Stop: 59573, Start Num: 1

Candidate Starts for Agent47\_94:

(Start: 1 @59166 has 25 MA's), (3, 59190), (7, 59310), (8, 59334), (13, 59442), (23, 59532),

Gene: AlleyCat\_97 Start: 60311, Stop: 60703, Start Num: 1

Candidate Starts for AlleyCat\_97:

(Start: 1 @60311 has 25 MA's), (4, 60386), (6, 60446), (7, 60455), (8, 60479), (9, 60524), (10, 60536), (11, 60551), (14, 60590), (15, 60593), (16, 60602), (17, 60617), (20, 60641), (21, 60650),

Gene: BananenDer11\_95 Start: 59418, Stop: 59825, Start Num: 1

Candidate Starts for BananenDer11\_95:

(Start: 1 @59418 has 25 MA's), (3, 59442), (7, 59562), (8, 59586), (13, 59694), (23, 59784),

Gene: Collard\_93 Start: 59418, Stop: 59825, Start Num: 1

Candidate Starts for Collard\_93:

(Start: 1 @59418 has 25 MA's), (3, 59442), (7, 59562), (8, 59586), (13, 59694), (23, 59784),

Gene: Dadosky\_97 Start: 60312, Stop: 60704, Start Num: 1

Candidate Starts for Dadosky\_97:

(Start: 1 @60312 has 25 MA's), (4, 60387), (6, 60447), (7, 60456), (8, 60480), (9, 60525), (10, 60537), (11, 60552), (14, 60591), (15, 60594), (16, 60603), (17, 60618), (20, 60642), (21, 60651),

Gene: DoubleChamp\_93 Start: 59418, Stop: 59825, Start Num: 1

Candidate Starts for DoubleChamp\_93:

(Start: 1 @59418 has 25 MA's), (3, 59442), (7, 59562), (8, 59586), (13, 59694), (23, 59784),

Gene: Edugator\_90 Start: 61365, Stop: 61772, Start Num: 1

Candidate Starts for Edugator\_90:

(Start: 1 @61365 has 25 MA's), (3, 61389), (7, 61509), (8, 61533), (13, 61641), (18, 61689), (23, 61731),

Gene: Feyre\_96 Start: 61788, Stop: 62177, Start Num: 1

Candidate Starts for Feyre\_96:

(Start: 1 @61788 has 25 MA's), (2, 61809), (7, 61932), (8, 61956), (9, 62001), (10, 62013), (15, 62070), (17, 62091), (20, 62115), (21, 62124),

Gene: Gengar\_93 Start: 59856, Stop: 60245, Start Num: 1

Candidate Starts for Gengar\_93:

(Start: 1 @59856 has 25 MA's), (2, 59877), (7, 60000), (8, 60024), (9, 60069), (10, 60081), (14, 60135), (15, 60138), (17, 60159), (20, 60183), (22, 60195),

Gene: Guillsminger\_93 Start: 61155, Stop: 61562, Start Num: 1

Candidate Starts for Guillsminger\_93:

(Start: 1 @61155 has 25 MA's), (2, 61176), (3, 61179), (7, 61299), (8, 61323), (13, 61431), (14, 61434), (23, 61521),

Gene: Heftyboy\_94 Start: 60198, Stop: 60587, Start Num: 1

Candidate Starts for Heftyboy\_94:

(Start: 1 @60198 has 25 MA's), (2, 60219), (7, 60342), (8, 60366), (9, 60411), (10, 60423), (15, 60480), (17, 60501), (20, 60525), (21, 60534),

Gene: InvictusManeo\_92 Start: 59170, Stop: 59577, Start Num: 1

Candidate Starts for InvictusManeo\_92:

(Start: 1 @59170 has 25 MA's), (3, 59194), (7, 59314), (8, 59338), (13, 59446), (23, 59536),

Gene: Kratio\_98 Start: 60761, Stop: 61168, Start Num: 1

Candidate Starts for Kratio\_98:

(Start: 1 @60761 has 25 MA's), (3, 60785), (7, 60905), (8, 60929), (13, 61037), (23, 61127),

Gene: Larva\_96 Start: 61188, Stop: 61580, Start Num: 1

Candidate Starts for Larva\_96:

(Start: 1 @61188 has 25 MA's), (4, 61263), (6, 61323), (7, 61332), (8, 61356), (9, 61401), (10, 61413), (11, 61428), (14, 61467), (15, 61470), (16, 61479), (17, 61494), (20, 61518), (21, 61527),

Gene: Leston\_93 Start: 59810, Stop: 60217, Start Num: 1

Candidate Starts for Leston\_93:

(Start: 1 @59810 has 25 MA's), (2, 59831), (3, 59834), (7, 59954), (8, 59978), (13, 60086), (14, 60089), (23, 60176),

Gene: LilDirt\_95 Start: 59219, Stop: 59626, Start Num: 1

Candidate Starts for LilDirt\_95:

(Start: 1 @59219 has 25 MA's), (3, 59243), (7, 59363), (8, 59387), (13, 59495), (23, 59585),

Gene: Miryou\_95 Start: 61404, Stop: 61793, Start Num: 1

Candidate Starts for Miryou\_95:

(Start: 1 @61404 has 25 MA's), (2, 61425), (7, 61548), (8, 61572), (9, 61617), (10, 61629), (14, 61683), (15, 61686), (17, 61707), (20, 61731), (21, 61740),

Gene: Neighly\_97 Start: 61187, Stop: 61579, Start Num: 1

Candidate Starts for Neighly\_97:

(Start: 1 @61187 has 25 MA's), (4, 61262), (6, 61322), (7, 61331), (8, 61355), (9, 61400), (10, 61412), (11, 61427), (14, 61466), (15, 61469), (16, 61478), (17, 61493), (20, 61517), (21, 61526),

Gene: OkiRoe\_94 Start: 60824, Stop: 61213, Start Num: 1

Candidate Starts for OkiRoe\_94:

(Start: 1 @60824 has 25 MA's), (7, 60968), (8, 60992), (12, 61079), (15, 61106), (19, 61148), (24, 61208),

Gene: Omnicron\_93 Start: 59815, Stop: 60204, Start Num: 1

Candidate Starts for Omnicron\_93:

(Start: 1 @59815 has 25 MA's), (2, 59836), (5, 59905), (8, 59983), (9, 60028), (10, 60040), (14, 60094), (15, 60097), (17, 60118), (20, 60142), (21, 60151),

Gene: Paola\_91 Start: 59537, Stop: 59944, Start Num: 1

Candidate Starts for Paola\_91:

(Start: 1 @59537 has 25 MA's), (2, 59558), (3, 59561), (7, 59681), (8, 59705), (13, 59813), (14, 59816), (23, 59903),

Gene: Psycho\_95 Start: 60309, Stop: 60701, Start Num: 1

Candidate Starts for Psycho\_95:

(Start: 1 @60309 has 25 MA's), (4, 60384), (6, 60444), (7, 60453), (8, 60477), (9, 60522), (10, 60534), (11, 60549), (14, 60588), (15, 60591), (16, 60600), (17, 60615), (20, 60639), (21, 60648),

Gene: Rando14\_90 Start: 58226, Stop: 58615, Start Num: 1

Candidate Starts for Rando14\_90:

(Start: 1 @58226 has 25 MA's), (2, 58247), (5, 58316), (8, 58394), (9, 58439), (10, 58451), (14, 58505), (15, 58508), (17, 58529), (20, 58553), (21, 58562),

Gene: SoSeph\_94 Start: 60198, Stop: 60587, Start Num: 1

Candidate Starts for SoSeph\_94:

(Start: 1 @60198 has 25 MA's), (2, 60219), (7, 60342), (8, 60366), (9, 60411), (10, 60423), (15, 60480), (17, 60501), (20, 60525), (21, 60534),

Gene: Thyatira\_95 Start: 62107, Stop: 62496, Start Num: 1

Candidate Starts for Thyatira\_95:

(Start: 1 @62107 has 25 MA's), (2, 62128), (7, 62251), (8, 62275), (9, 62320), (10, 62332), (14, 62386), (15, 62389), (17, 62410), (20, 62434), (22, 62446),

Gene: ViviJ\_101 Start: 61507, Stop: 61914, Start Num: 1

Candidate Starts for ViviJ\_101:

(Start: 1 @61507 has 25 MA's), (3, 61531), (7, 61651), (8, 61675), (13, 61783), (23, 61873),

Gene: Waterfoul\_93 Start: 59474, Stop: 59863, Start Num: 1

Candidate Starts for Waterfoul\_93:

(Start: 1 @59474 has 25 MA's), (2, 59495), (7, 59618), (8, 59642), (9, 59687), (10, 59699), (14, 59753), (15, 59756), (17, 59777), (20, 59801), (21, 59810),