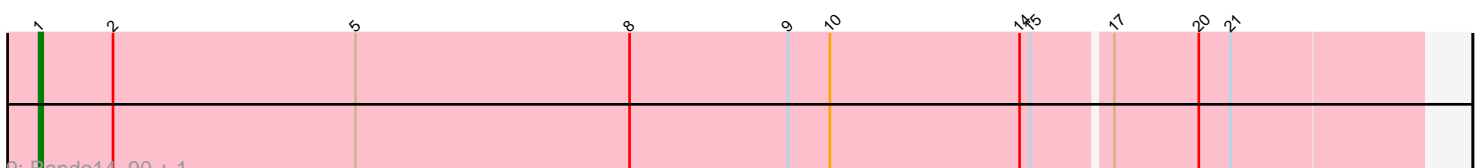
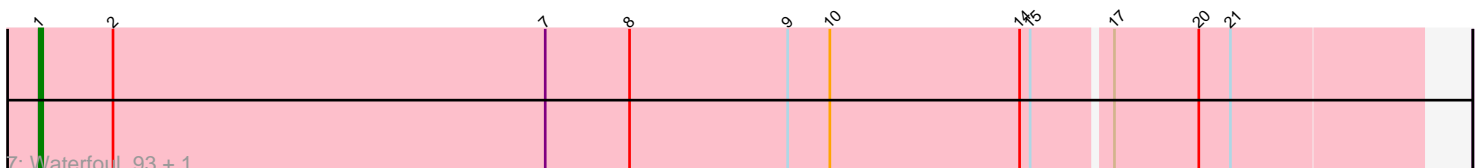
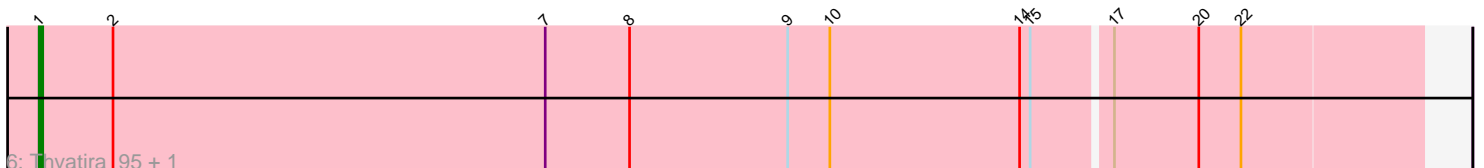
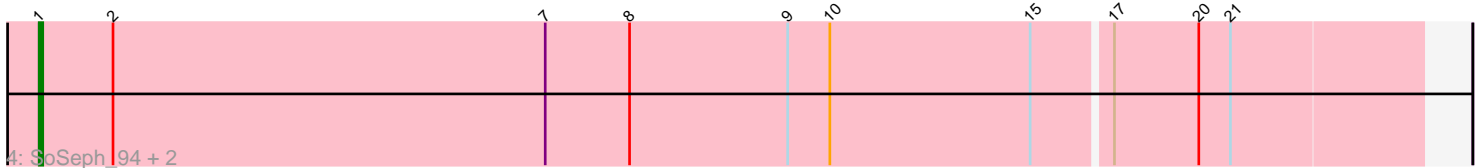
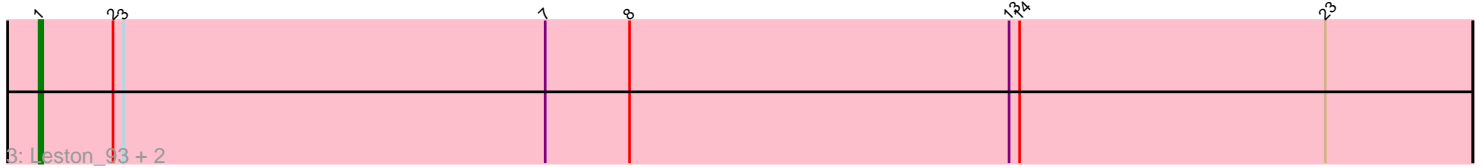
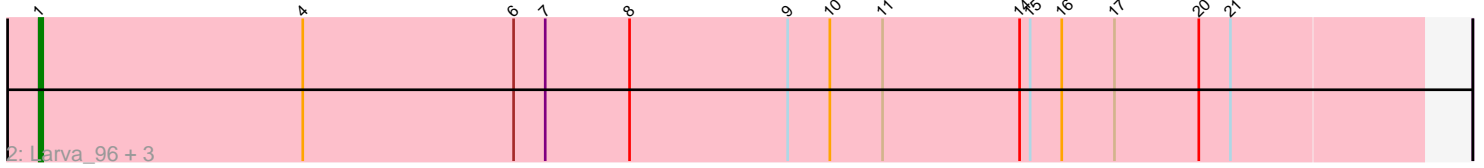
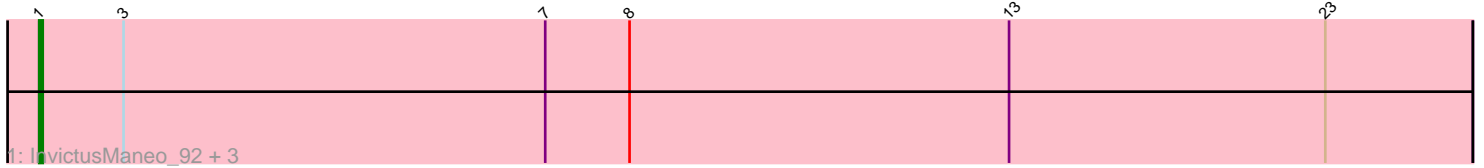


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 190078 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190078 has 22 members, 0 are drafts.

Phages represented in each track:

- Track 1 : InvictusManeo\_92, Collard\_93, Agent47\_94, Kratio\_98
- Track 2 : Larva\_96, AlleyCat\_97, Dadosky\_97, Psycho\_95
- 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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Agent47\_94, AlleyCat\_97, Collard\_93, Dadosky\_97, Edugator\_90, Feyre\_96, Gengar\_93, Guillsminger\_93, Heftyboy\_94, InvictusManeo\_92, Kratio\_98, Larva\_96, Leston\_93, Miryou\_95, OkiRoe\_94, Omnicron\_93, Paola\_91, Psycho\_95, Rando14\_90, SoSeph\_94, Thyatira\_95, 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 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Agent47\_94 (K5), AlleyCat\_97 (K5), Collard\_93 (K5), Dadosky\_97 (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), Miryou\_95 (K5), OkiRoe\_94 (K5), Omnicron\_93 (K5), Paola\_91 (K5), Psycho\_95 (K5), Rando14\_90 (K5), SoSeph\_94 (K5), Thyatira\_95 (K5), Waterfoul\_93 (K5),

### **Summary by clusters:**

There is one cluster represented in this pham: K5

Info for manual annotations of cluster K5:

•Start number 1 was manually annotated 22 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 22 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 22 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: Collard\_93 Start: 59418, Stop: 59825, Start Num: 1

Candidate Starts for Collard\_93:

(Start: 1 @59418 has 22 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 22 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: Edugator\_90 Start: 61365, Stop: 61772, Start Num: 1

Candidate Starts for Edugator\_90:

(Start: 1 @61365 has 22 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 22 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 22 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 22 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 22 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 22 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 22 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 22 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 22 MA's), (2, 59831), (3, 59834), (7, 59954), (8, 59978), (13, 60086), (14, 60089), (23, 60176),

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

Candidate Starts for Miryou\_95:

(Start: 1 @61404 has 22 MA's), (2, 61425), (7, 61548), (8, 61572), (9, 61617), (10, 61629), (14, 61683), (15, 61686), (17, 61707), (20, 61731), (21, 61740),

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

Candidate Starts for OkiRoe\_94:

(Start: 1 @60824 has 22 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 22 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 22 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 22 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 22 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 22 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 22 MA's), (2, 62128), (7, 62251), (8, 62275), (9, 62320), (10, 62332), (14, 62386), (15, 62389), (17, 62410), (20, 62434), (22, 62446),

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

Candidate Starts for Waterfoul\_93:

(Start: 1 @59474 has 22 MA's), (2, 59495), (7, 59618), (8, 59642), (9, 59687), (10, 59699), (14, 59753), (15, 59756), (17, 59777), (20, 59801), (21, 59810),