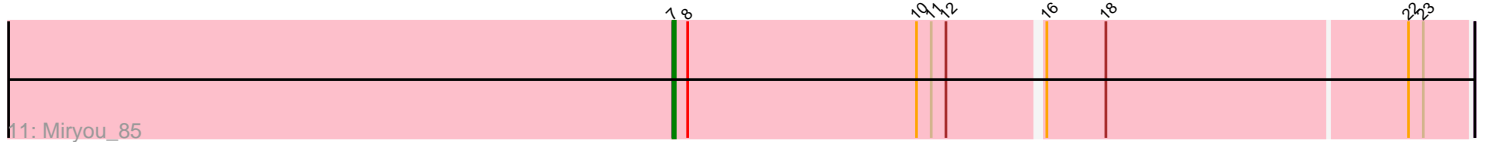
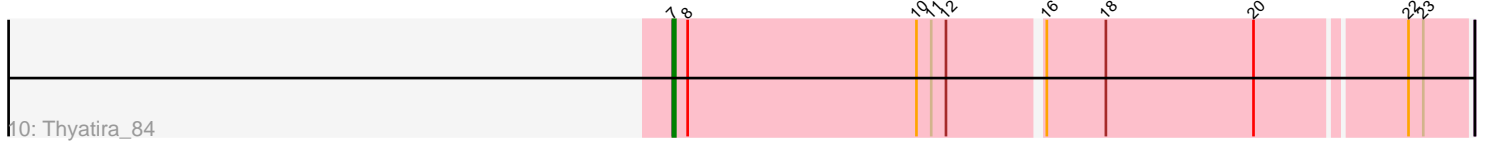
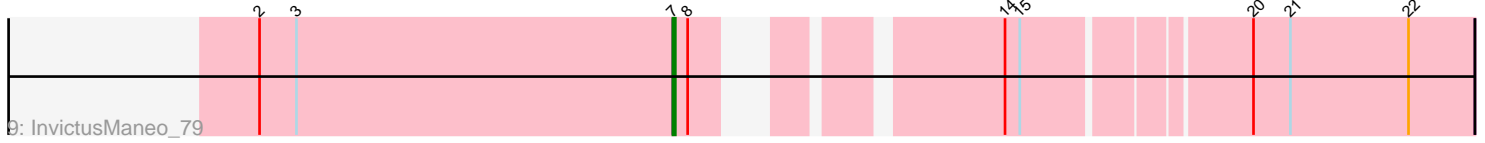
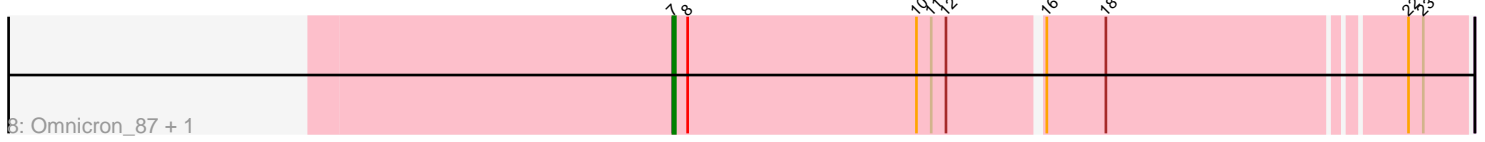
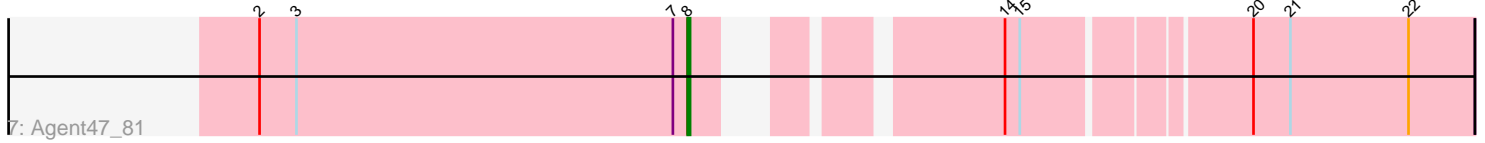
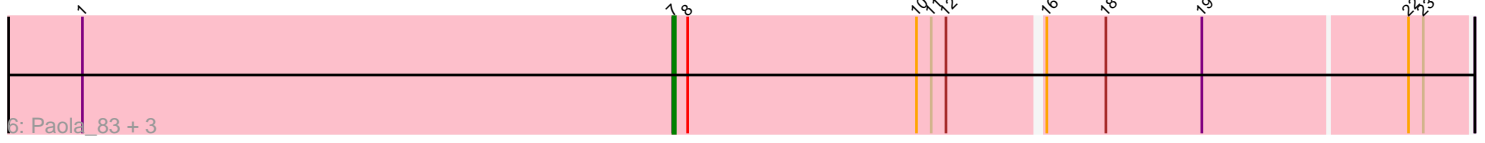
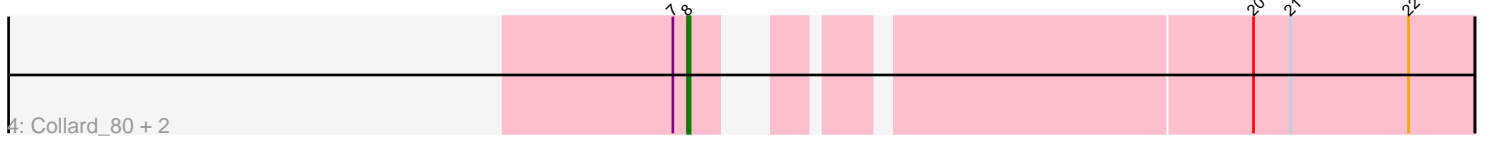
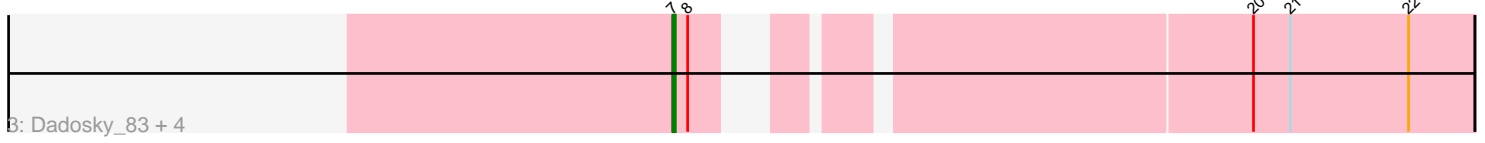
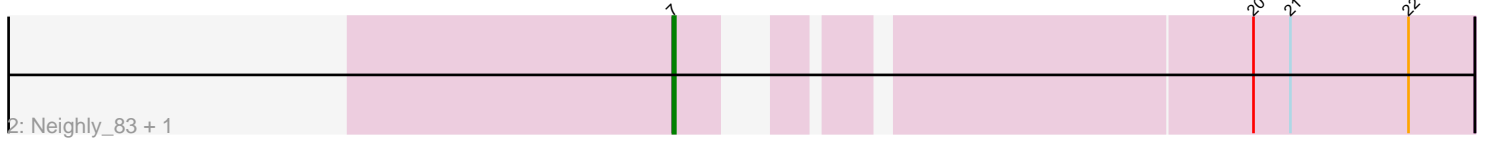
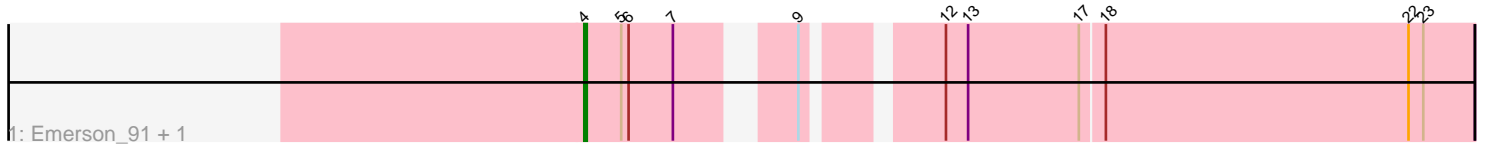


Pham 216521



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 216521 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216521 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Emerson_91, Padpat_92
- Track 2 : Neighly_83, Larva_82
- Track 3 : Dadosky_83, Kratio_83, Edugator_79, Psycho_81, AlleyCat_83
- Track 4 : Collard_80, Heftyboy_82, SoSeph_82
- Track 5 : ViviJ_87
- Track 6 : Paola_83, Leston_83, Waterfoul_83, Guillsminger_84
- Track 7 : Agent47_81
- Track 8 : Omnicron_87, Rando14_84
- Track 9 : InvictusManeo_79
- Track 10 : Thyatira_84
- Track 11 : Miryou_85

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

The start number called the most often in the published annotations is 7, it was called in 15 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlleyCat_83, Dadosky_83, Edugator_79, Guillsminger_84, InvictusManeo_79, Kratio_83, Larva_82, Leston_83, Miryou_85, Neighly_83, Omnicron_87, Paola_83, Psycho_81, Rando14_84, Thyatira_84, ViviJ_87, Waterfoul_83,

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

- Agent47_81, Collard_80, Emerson_91, Heftyboy_82, Padpat_92, SoSeph_82,

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

-

Summary by start number:

Start 4:

- Found in 2 of 23 (8.7%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Emerson_91 (K1), Padpat_92 (K1),

Start 7:

- Found in 23 of 23 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 21
- Called 73.9% of time when present
- Phage (with cluster) where this start called: AlleyCat_83 (K5), Dadosky_83 (K5), Edugator_79 (K5), Guillsminger_84 (K5), InvictusManeo_79 (K5), Kratio_83 (K5), Larva_82 (K5), Leston_83 (K5), Miryou_85 (K5), Neighly_83 (K3), Omnicron_87 (K5), Paola_83 (K5), Psycho_81 (K5), Rando14_84 (K5), Thyatira_84 (K5), ViviJ_87 (K5), Waterfoul_83 (K5),

Start 8:

- Found in 19 of 23 (82.6%) of genes in pham
- Manual Annotations of this start: 4 of 21
- Called 21.1% of time when present
- Phage (with cluster) where this start called: Agent47_81 (K5), Collard_80 (K5), Heftyboy_82 (K5), SoSeph_82 (K5),

Summary by clusters:

There are 3 clusters represented in this pham: K3, K1, K5,

Info for manual annotations of cluster K1:

- Start number 4 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K5:

- Start number 7 was manually annotated 15 times for cluster K5.
- Start number 8 was manually annotated 4 times for cluster K5.

Gene Information:

Gene: Agent47_81 Start: 53059, Stop: 53331, Start Num: 8

Candidate Starts for Agent47_81:

(2, 52885), (3, 52900), (Start: 7 @53053 has 15 MA's), (Start: 8 @53059 has 4 MA's), (14, 53152), (15, 53158), (20, 53242), (21, 53257), (22, 53305),

Gene: AlleyCat_83 Start: 54184, Stop: 54471, Start Num: 7

Candidate Starts for AlleyCat_83:

(Start: 7 @54184 has 15 MA's), (Start: 8 @54190 has 4 MA's), (20, 54382), (21, 54397), (22, 54445),

Gene: Collard_80 Start: 53300, Stop: 53581, Start Num: 8

Candidate Starts for Collard_80:

(Start: 7 @53294 has 15 MA's), (Start: 8 @53300 has 4 MA's), (20, 53492), (21, 53507), (22, 53555),

Gene: Dadosky_83 Start: 54185, Stop: 54472, Start Num: 7

Candidate Starts for Dadosky_83:

(Start: 7 @54185 has 15 MA's), (Start: 8 @54191 has 4 MA's), (20, 54383), (21, 54398), (22, 54446),

Gene: Edugator_79 Start: 55356, Stop: 55643, Start Num: 7

Candidate Starts for Edugator_79:

(Start: 7 @55356 has 15 MA's), (Start: 8 @55362 has 4 MA's), (20, 55554), (21, 55569), (22, 55617),

Gene: Emerson_91 Start: 56890, Stop: 57219, Start Num: 4

Candidate Starts for Emerson_91:

(Start: 4 @56890 has 2 MA's), (5, 56905), (6, 56908), (Start: 7 @56926 has 15 MA's), (9, 56962), (12, 57007), (13, 57016), (17, 57061), (18, 57070), (22, 57193), (23, 57199),

Gene: Guillsminger_84 Start: 55380, Stop: 55694, Start Num: 7

Candidate Starts for Guillsminger_84:

(1, 55140), (Start: 7 @55380 has 15 MA's), (Start: 8 @55386 has 4 MA's), (10, 55479), (11, 55485), (12, 55491), (16, 55527), (18, 55551), (19, 55590), (22, 55671), (23, 55677),

Gene: Heftyboy_82 Start: 55027, Stop: 55308, Start Num: 8

Candidate Starts for Heftyboy_82:

(Start: 7 @55021 has 15 MA's), (Start: 8 @55027 has 4 MA's), (20, 55219), (21, 55234), (22, 55282),

Gene: InvictusManeo_79 Start: 53057, Stop: 53335, Start Num: 7

Candidate Starts for InvictusManeo_79:

(2, 52889), (3, 52904), (Start: 7 @53057 has 15 MA's), (Start: 8 @53063 has 4 MA's), (14, 53156), (15, 53162), (20, 53246), (21, 53261), (22, 53309),

Gene: Kratio_83 Start: 54079, Stop: 54366, Start Num: 7

Candidate Starts for Kratio_83:

(Start: 7 @54079 has 15 MA's), (Start: 8 @54085 has 4 MA's), (20, 54277), (21, 54292), (22, 54340),

Gene: Larva_82 Start: 55057, Stop: 55344, Start Num: 7

Candidate Starts for Larva_82:

(Start: 7 @55057 has 15 MA's), (20, 55255), (21, 55270), (22, 55318),

Gene: Leston_83 Start: 55497, Stop: 55811, Start Num: 7

Candidate Starts for Leston_83:

(1, 55257), (Start: 7 @55497 has 15 MA's), (Start: 8 @55503 has 4 MA's), (10, 55596), (11, 55602), (12, 55608), (16, 55644), (18, 55668), (19, 55707), (22, 55788), (23, 55794),

Gene: Miryou_85 Start: 57355, Stop: 57669, Start Num: 7

Candidate Starts for Miryou_85:

(Start: 7 @57355 has 15 MA's), (Start: 8 @57361 has 4 MA's), (10, 57454), (11, 57460), (12, 57466), (16, 57502), (18, 57526), (22, 57646), (23, 57652),

Gene: Neighly_83 Start: 55056, Stop: 55343, Start Num: 7

Candidate Starts for Neighly_83:

(Start: 7 @55056 has 15 MA's), (20, 55254), (21, 55269), (22, 55317),

Gene: Omnicron_87 Start: 57578, Stop: 57886, Start Num: 7

Candidate Starts for Omnicron_87:

(Start: 7 @57578 has 15 MA's), (Start: 8 @57584 has 4 MA's), (10, 57677), (11, 57683), (12, 57689), (16, 57725), (18, 57749), (22, 57863), (23, 57869),

Gene: Padpat_92 Start: 56890, Stop: 57219, Start Num: 4

Candidate Starts for Padpat_92:

(Start: 4 @56890 has 2 MA's), (5, 56905), (6, 56908), (Start: 7 @56926 has 15 MA's), (9, 56962), (12, 57007), (13, 57016), (17, 57061), (18, 57070), (22, 57193), (23, 57199),

Gene: Paola_83 Start: 55380, Stop: 55694, Start Num: 7

Candidate Starts for Paola_83:

(1, 55140), (Start: 7 @55380 has 15 MA's), (Start: 8 @55386 has 4 MA's), (10, 55479), (11, 55485), (12, 55491), (16, 55527), (18, 55551), (19, 55590), (22, 55671), (23, 55677),

Gene: Psycho_81 Start: 54182, Stop: 54469, Start Num: 7

Candidate Starts for Psycho_81:

(Start: 7 @54182 has 15 MA's), (Start: 8 @54188 has 4 MA's), (20, 54380), (21, 54395), (22, 54443),

Gene: Rando14_84 Start: 55989, Stop: 56297, Start Num: 7

Candidate Starts for Rando14_84:

(Start: 7 @55989 has 15 MA's), (Start: 8 @55995 has 4 MA's), (10, 56088), (11, 56094), (12, 56100), (16, 56136), (18, 56160), (22, 56274), (23, 56280),

Gene: SoSeph_82 Start: 55027, Stop: 55308, Start Num: 8

Candidate Starts for SoSeph_82:

(Start: 7 @55021 has 15 MA's), (Start: 8 @55027 has 4 MA's), (20, 55219), (21, 55234), (22, 55282),

Gene: Thyatira_84 Start: 57092, Stop: 57403, Start Num: 7

Candidate Starts for Thyatira_84:

(Start: 7 @57092 has 15 MA's), (Start: 8 @57098 has 4 MA's), (10, 57191), (11, 57197), (12, 57203), (16, 57239), (18, 57263), (20, 57323), (22, 57380), (23, 57386),

Gene: ViviJ_87 Start: 55383, Stop: 55670, Start Num: 7

Candidate Starts for ViviJ_87:

(Start: 7 @55383 has 15 MA's), (Start: 8 @55389 has 4 MA's), (20, 55581), (21, 55596), (22, 55644),

Gene: Waterfoul_83 Start: 55162, Stop: 55473, Start Num: 7

Candidate Starts for Waterfoul_83:

(1, 54922), (Start: 7 @55162 has 15 MA's), (Start: 8 @55168 has 4 MA's), (10, 55261), (11, 55267), (12, 55273), (16, 55309), (18, 55333), (19, 55372), (22, 55450), (23, 55456),