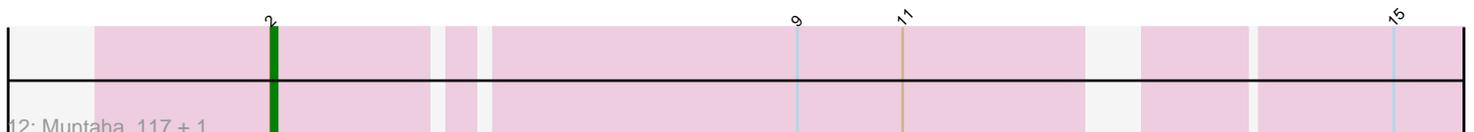
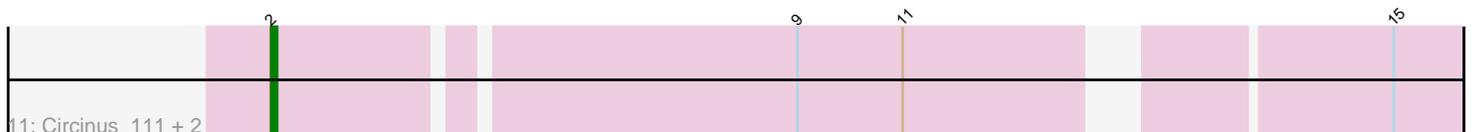
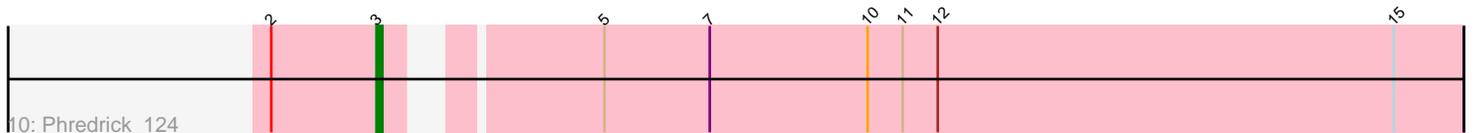
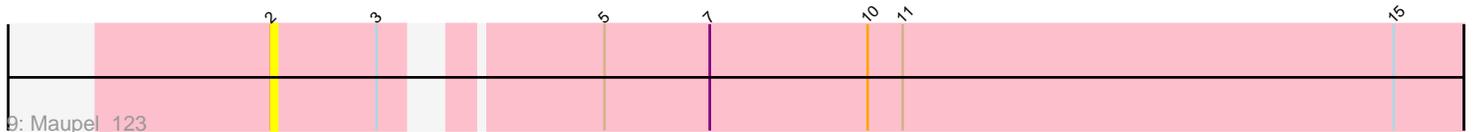
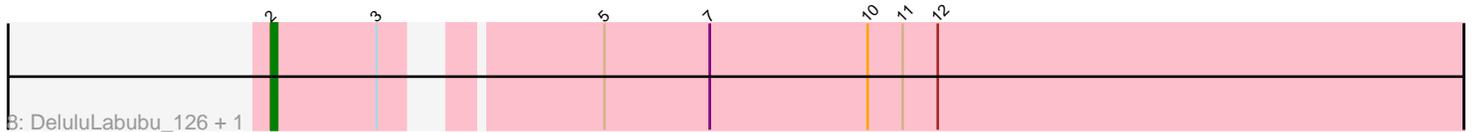
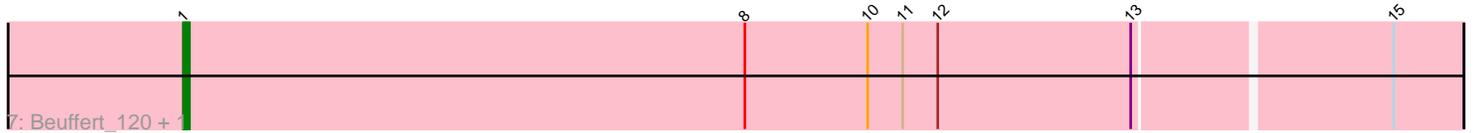
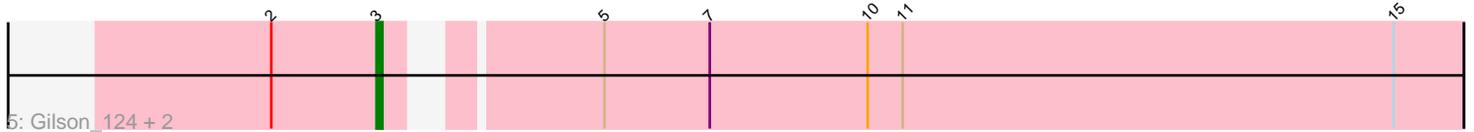
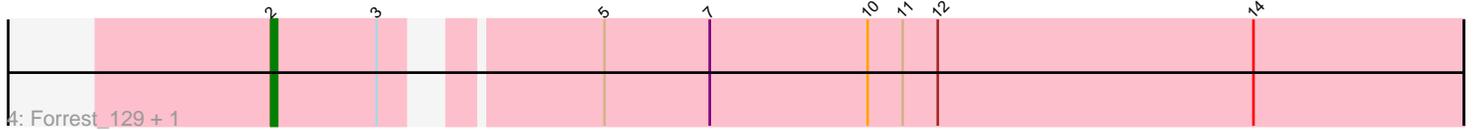
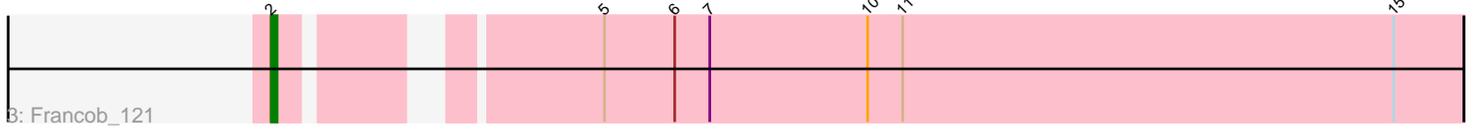
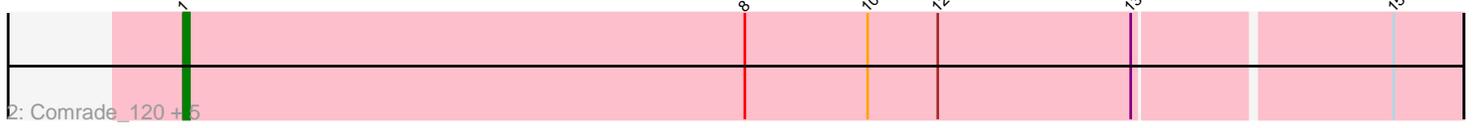
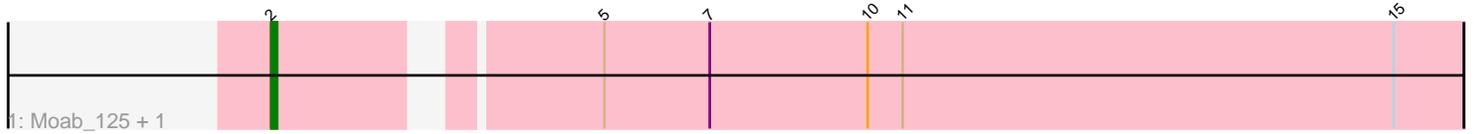


Pham 291450



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 291450 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291450 has 27 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Moab_125, Patelgo_127
- Track 2 : Comrade_120, Westy_126, SparkleGoddess_122, Karp_120, Stigma_122, Belfort_124
- Track 3 : Francob_121
- Track 4 : Forrest_129, Jada_125
- Track 5 : Gilson_124, Emma1919_124, MeganTheeKilla_123
- Track 6 : Annadreamy_114, Limpid_122
- Track 7 : Beuffert_120, Blueeyedbeauty_121
- Track 8 : DeluluLabubu_126, Kenrey_126
- Track 9 : Maupel_123
- Track 10 : Phredrick_124
- Track 11 : Circinus_111, Chaewon_114, BillNye_110
- Track 12 : Muntaha_117, Wakanda_115

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BillNye_110, Chaewon_114, Circinus_111, DeluluLabubu_126, Forrest_129, Francob_121, Jada_125, Kenrey_126, Maupel_123, Moab_125, Muntaha_117, Patelgo_127, Wakanda_115,

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

- Emma1919_124, Gilson_124, MeganTheeKilla_123, Phredrick_124,

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

- Annadreamy_114, Belfort_124, Beuffert_120, Blueeyedbeauty_121, Comrade_120, Karp_120, Limpid_122, SparkleGoddess_122, Stigma_122, Westy_126,

Summary by start number:

Start 1:

- Found in 10 of 27 (37.0%) of genes in pham
- Manual Annotations of this start: 10 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy_114 (BK1), Belfort_124 (BK1), Beuffert_120 (BK1), Blueeyedbeauty_121 (BK1), Comrade_120 (BK1), Karp_120 (BK1), Limpid_122 (BK1), SparkleGoddess_122 (BK1), Stigma_122 (BK1), Westy_126 (BK1),

Start 2:

- Found in 17 of 27 (63.0%) of genes in pham
- Manual Annotations of this start: 11 of 25
- Called 76.5% of time when present
- Phage (with cluster) where this start called: BillNye_110 (BK2), Chaewon_114 (BK2), Circinus_111 (BK2), DeluluLabubu_126 (BK1), Forrest_129 (BK1), Francob_121 (BK1), Jada_125 (BK1), Kenrey_126 (BK1), Maupel_123 (BK1), Moab_125 (BK1), Muntaha_117 (BK2), Patelgo_127 (BK1), Wakanda_115 (BK2),

Start 3:

- Found in 9 of 27 (33.3%) of genes in pham
- Manual Annotations of this start: 4 of 25
- Called 44.4% of time when present
- Phage (with cluster) where this start called: Emma1919_124 (BK1), Gilson_124 (BK1), MeganTheeKilla_123 (BK1), Phredrick_124 (BK1),

Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 10 times for cluster BK1.
- Start number 2 was manually annotated 7 times for cluster BK1.
- Start number 3 was manually annotated 4 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 2 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Annadreamy_114 Start: 71054, Stop: 71269, Start Num: 1

Candidate Starts for Annadreamy_114:

(Start: 1 @71054 has 10 MA's), (4, 71111), (9, 71159), (13, 71216), (15, 71258),

Gene: Belfort_124 Start: 76440, Stop: 76655, Start Num: 1

Candidate Starts for Belfort_124:

(Start: 1 @76440 has 10 MA's), (8, 76536), (10, 76557), (12, 76569), (13, 76602), (15, 76644),

Gene: Beuffert_120 Start: 75552, Stop: 75767, Start Num: 1

Candidate Starts for Beuffert_120:

(Start: 1 @75552 has 10 MA's), (8, 75648), (10, 75669), (11, 75675), (12, 75681), (13, 75714), (15, 75756),

Gene: BillNye_110 Start: 73768, Stop: 73953, Start Num: 2
Candidate Starts for BillNye_110:
(Start: 2 @73768 has 11 MA's), (9, 73852), (11, 73870), (15, 73942),

Gene: Blueeyedbeauty_121 Start: 73777, Stop: 73992, Start Num: 1
Candidate Starts for Blueeyedbeauty_121:
(Start: 1 @73777 has 10 MA's), (8, 73873), (10, 73894), (11, 73900), (12, 73906), (13, 73939), (15, 73981),

Gene: Chaewon_114 Start: 73664, Stop: 73849, Start Num: 2
Candidate Starts for Chaewon_114:
(Start: 2 @73664 has 11 MA's), (9, 73748), (11, 73766), (15, 73838),

Gene: Circinus_111 Start: 73758, Stop: 73943, Start Num: 2
Candidate Starts for Circinus_111:
(Start: 2 @73758 has 11 MA's), (9, 73842), (11, 73860), (15, 73932),

Gene: Comrade_120 Start: 75758, Stop: 75973, Start Num: 1
Candidate Starts for Comrade_120:
(Start: 1 @75758 has 10 MA's), (8, 75854), (10, 75875), (12, 75887), (13, 75920), (15, 75962),

Gene: DeluluLabubu_126 Start: 76132, Stop: 76326, Start Num: 2
Candidate Starts for DeluluLabubu_126:
(Start: 2 @76132 has 11 MA's), (Start: 3 @76150 has 4 MA's), (5, 76180), (7, 76198), (10, 76225), (11, 76231), (12, 76237),

Gene: Emma1919_124 Start: 75111, Stop: 75287, Start Num: 3
Candidate Starts for Emma1919_124:
(Start: 2 @75093 has 11 MA's), (Start: 3 @75111 has 4 MA's), (5, 75141), (7, 75159), (10, 75186), (11, 75192), (15, 75276),

Gene: Forrest_129 Start: 77900, Stop: 78094, Start Num: 2
Candidate Starts for Forrest_129:
(Start: 2 @77900 has 11 MA's), (Start: 3 @77918 has 4 MA's), (5, 77948), (7, 77966), (10, 77993), (11, 77999), (12, 78005), (14, 78059),

Gene: Francob_121 Start: 75354, Stop: 75545, Start Num: 2
Candidate Starts for Francob_121:
(Start: 2 @75354 has 11 MA's), (5, 75399), (6, 75411), (7, 75417), (10, 75444), (11, 75450), (15, 75534),

Gene: Gilson_124 Start: 75073, Stop: 75249, Start Num: 3
Candidate Starts for Gilson_124:
(Start: 2 @75055 has 11 MA's), (Start: 3 @75073 has 4 MA's), (5, 75103), (7, 75121), (10, 75148), (11, 75154), (15, 75238),

Gene: Jada_125 Start: 76830, Stop: 77024, Start Num: 2
Candidate Starts for Jada_125:
(Start: 2 @76830 has 11 MA's), (Start: 3 @76848 has 4 MA's), (5, 76878), (7, 76896), (10, 76923), (11, 76929), (12, 76935), (14, 76989),

Gene: Karp_120 Start: 75729, Stop: 75944, Start Num: 1
Candidate Starts for Karp_120:

(Start: 1 @75729 has 10 MA's), (8, 75825), (10, 75846), (12, 75858), (13, 75891), (15, 75933),

Gene: Kenrey_126 Start: 76223, Stop: 76417, Start Num: 2

Candidate Starts for Kenrey_126:

(Start: 2 @76223 has 11 MA's), (Start: 3 @76241 has 4 MA's), (5, 76271), (7, 76289), (10, 76316), (11, 76322), (12, 76328),

Gene: Limpid_122 Start: 76297, Stop: 76512, Start Num: 1

Candidate Starts for Limpid_122:

(Start: 1 @76297 has 10 MA's), (4, 76354), (9, 76402), (13, 76459), (15, 76501),

Gene: Maupel_123 Start: 75055, Stop: 75249, Start Num: 2

Candidate Starts for Maupel_123:

(Start: 2 @75055 has 11 MA's), (Start: 3 @75073 has 4 MA's), (5, 75103), (7, 75121), (10, 75148), (11, 75154), (15, 75238),

Gene: MeganTheeKilla_123 Start: 75278, Stop: 75454, Start Num: 3

Candidate Starts for MeganTheeKilla_123:

(Start: 2 @75260 has 11 MA's), (Start: 3 @75278 has 4 MA's), (5, 75308), (7, 75326), (10, 75353), (11, 75359), (15, 75443),

Gene: Moab_125 Start: 77767, Stop: 77961, Start Num: 2

Candidate Starts for Moab_125:

(Start: 2 @77767 has 11 MA's), (5, 77815), (7, 77833), (10, 77860), (11, 77866), (15, 77950),

Gene: Muntaha_117 Start: 72382, Stop: 72567, Start Num: 2

Candidate Starts for Muntaha_117:

(Start: 2 @72382 has 11 MA's), (9, 72466), (11, 72484), (15, 72556),

Gene: Patelgo_127 Start: 77997, Stop: 78191, Start Num: 2

Candidate Starts for Patelgo_127:

(Start: 2 @77997 has 11 MA's), (5, 78045), (7, 78063), (10, 78090), (11, 78096), (15, 78180),

Gene: Phredrick_124 Start: 74874, Stop: 75050, Start Num: 3

Candidate Starts for Phredrick_124:

(Start: 2 @74856 has 11 MA's), (Start: 3 @74874 has 4 MA's), (5, 74904), (7, 74922), (10, 74949), (11, 74955), (12, 74961), (15, 75039),

Gene: SparkleGoddess_122 Start: 76058, Stop: 76273, Start Num: 1

Candidate Starts for SparkleGoddess_122:

(Start: 1 @76058 has 10 MA's), (8, 76154), (10, 76175), (12, 76187), (13, 76220), (15, 76262),

Gene: Stigma_122 Start: 76066, Stop: 76281, Start Num: 1

Candidate Starts for Stigma_122:

(Start: 1 @76066 has 10 MA's), (8, 76162), (10, 76183), (12, 76195), (13, 76228), (15, 76270),

Gene: Wakanda_115 Start: 72224, Stop: 72409, Start Num: 2

Candidate Starts for Wakanda_115:

(Start: 2 @72224 has 11 MA's), (9, 72308), (11, 72326), (15, 72398),

Gene: Westy_126 Start: 77093, Stop: 77308, Start Num: 1

Candidate Starts for Westy_126:

(Start: 1 @77093 has 10 MA's), (8, 77189), (10, 77210), (12, 77222), (13, 77255), (15, 77297),

