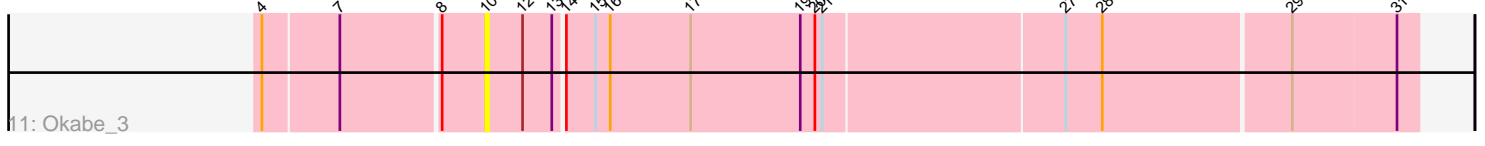
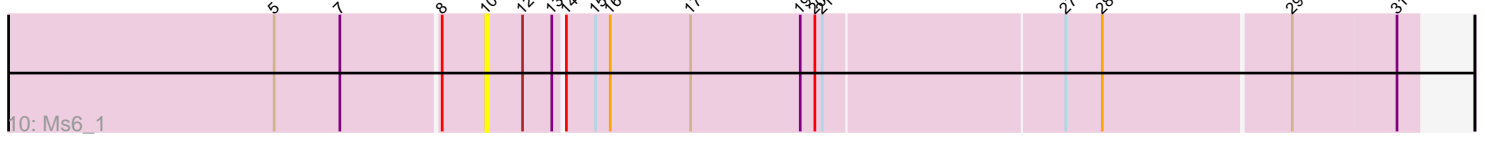
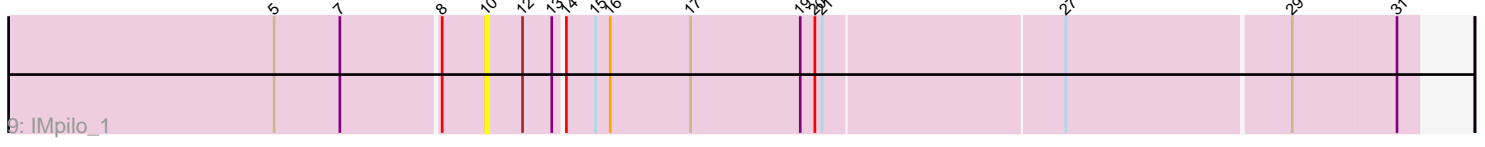
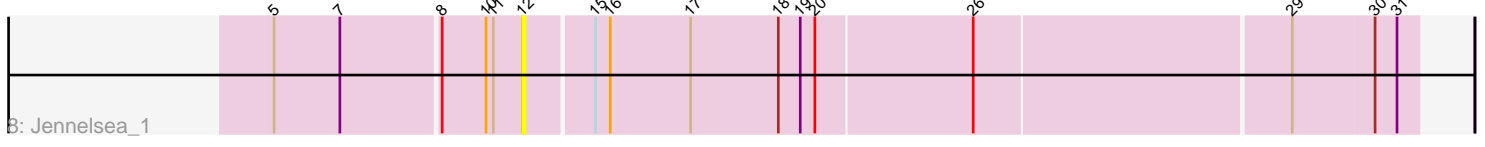
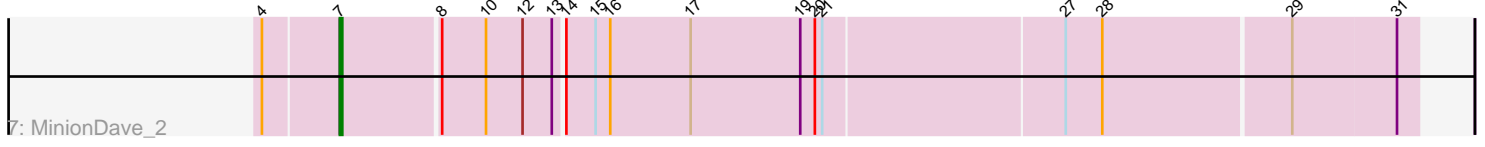
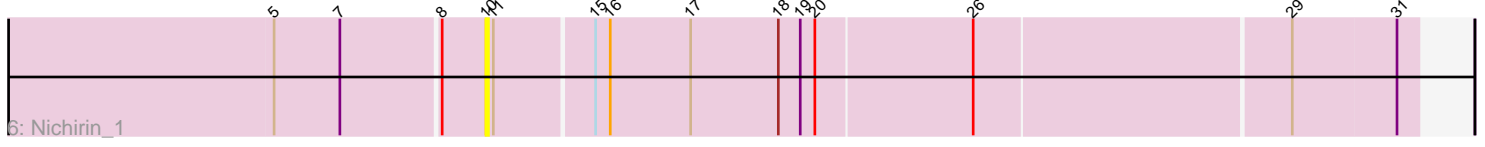
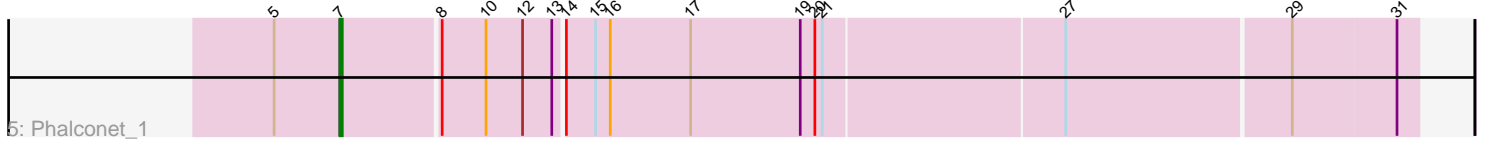
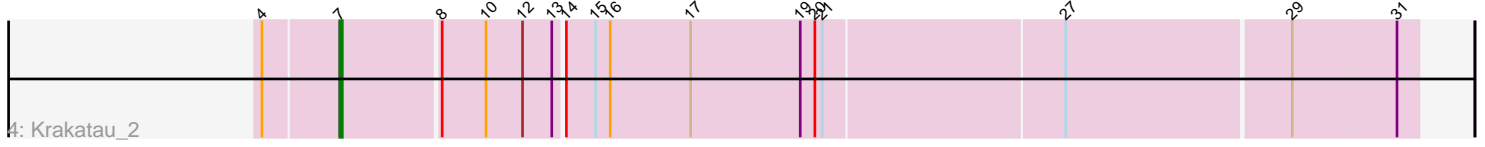
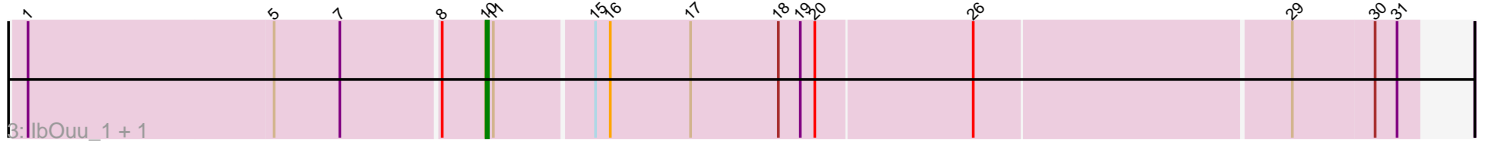
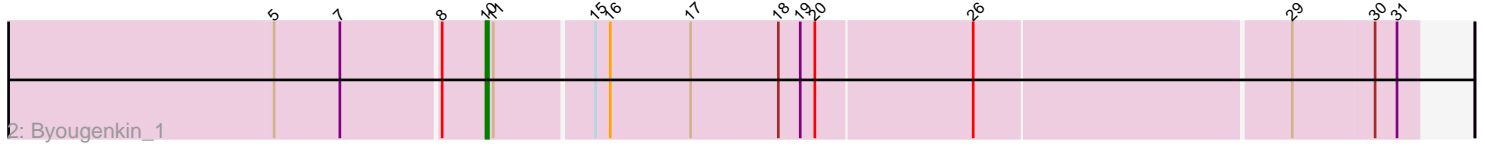


Pham 303820



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 303820 Report

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

Pham number 303820 has 12 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Kabluna_1
- Track 2 : Byougenkin_1
- Track 3 : IbOuu_1, Juniper1_1
- Track 4 : Krakatau_2
- Track 5 : Phalconet_1
- Track 6 : Nichirin_1
- Track 7 : MinionDave_2
- Track 8 : Jennelsea_1
- Track 9 : IMpilo_1
- Track 10 : Ms6_1
- Track 11 : Okabe_3

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 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Krakatau_2, MinionDave_2, Phalconet_1,

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

- Byougenkin_1, IMpilo_1, IbOuu_1, Jennelsea_1, Juniper1_1, Ms6_1, Nichirin_1, Okabe_3,

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

- Kabluna_1,

Summary by start number:

Start 7:

- Found in 11 of 12 (91.7%) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 27.3% of time when present

- Phage (with cluster) where this start called: Krakatau_2 (F1), MinionDave_2 (F1), Phalconet_1 (F1),

Start 9:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kabluna_1 (CR2),

Start 10:

- Found in 11 of 12 (91.7%) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Byougenkin_1 (F1), IMpilo_1 (F1), IbOuu_1 (F1), Juniper1_1 (F1), Ms6_1 (F1), Nichirin_1 (F1), Okabe_3 (F8),

Start 12:

- Found in 7 of 12 (58.3%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: Jennelsea_1 (F1),

Summary by clusters:

There are 3 clusters represented in this pham: F8, F1, CR2,

Info for manual annotations of cluster CR2:

- Start number 9 was manually annotated 1 time for cluster CR2.

Info for manual annotations of cluster F1:

- Start number 7 was manually annotated 3 times for cluster F1.
- Start number 10 was manually annotated 3 times for cluster F1.

Gene Information:

Gene: Byougenkin_1 Start: 193, Stop: 564, Start Num: 10

Candidate Starts for Byougenkin_1:

(5, 109), (Start: 7 @136 has 3 MA's), (8, 175), (Start: 10 @193 has 3 MA's), (11, 196), (15, 235), (16, 241), (17, 274), (18, 310), (19, 319), (20, 325), (26, 388), (29, 514), (30, 547), (31, 556),

Gene: IMpilo_1 Start: 194, Stop: 565, Start Num: 10

Candidate Starts for IMpilo_1:

(5, 110), (Start: 7 @137 has 3 MA's), (8, 176), (Start: 10 @194 has 3 MA's), (12, 209), (13, 221), (14, 224), (15, 236), (16, 242), (17, 275), (19, 320), (20, 326), (21, 329), (27, 425), (29, 515), (31, 557),

Gene: IbOuu_1 Start: 192, Stop: 563, Start Num: 10

Candidate Starts for IbOuu_1:

(1, 9), (5, 108), (Start: 7 @135 has 3 MA's), (8, 174), (Start: 10 @192 has 3 MA's), (11, 195), (15, 234), (16, 240), (17, 273), (18, 309), (19, 318), (20, 324), (26, 387), (29, 513), (30, 546), (31, 555),

Gene: Jennelsea_1 Start: 208, Stop: 564, Start Num: 12

Candidate Starts for Jennelsea_1:

(5, 109), (Start: 7 @136 has 3 MA's), (8, 175), (Start: 10 @193 has 3 MA's), (11, 196), (12, 208), (15, 235), (16, 241), (17, 274), (18, 310), (19, 319), (20, 325), (26, 388), (29, 514), (30, 547), (31, 556),

Gene: Juniper1_1 Start: 192, Stop: 563, Start Num: 10

Candidate Starts for Juniper1_1:

(1, 9), (5, 108), (Start: 7 @135 has 3 MA's), (8, 174), (Start: 10 @192 has 3 MA's), (11, 195), (15, 234), (16, 240), (17, 273), (18, 309), (19, 318), (20, 324), (26, 387), (29, 513), (30, 546), (31, 555),

Gene: Kabluna_1 Start: 289, Stop: 708, Start Num: 9

Candidate Starts for Kabluna_1:

(2, 124), (3, 160), (6, 235), (Start: 9 @289 has 1 MA's), (16, 355), (17, 388), (22, 445), (23, 454), (24, 469), (25, 475), (27, 541), (32, 700),

Gene: Krakatau_2 Start: 784, Stop: 1212, Start Num: 7

Candidate Starts for Krakatau_2:

(4, 754), (Start: 7 @784 has 3 MA's), (8, 823), (Start: 10 @841 has 3 MA's), (12, 856), (13, 868), (14, 871), (15, 883), (16, 889), (17, 922), (19, 967), (20, 973), (21, 976), (27, 1072), (29, 1162), (31, 1204),

Gene: MinionDave_2 Start: 784, Stop: 1212, Start Num: 7

Candidate Starts for MinionDave_2:

(4, 754), (Start: 7 @784 has 3 MA's), (8, 823), (Start: 10 @841 has 3 MA's), (12, 856), (13, 868), (14, 871), (15, 883), (16, 889), (17, 922), (19, 967), (20, 973), (21, 976), (27, 1072), (28, 1087), (29, 1162), (31, 1204),

Gene: Ms6_1 Start: 193, Stop: 564, Start Num: 10

Candidate Starts for Ms6_1:

(5, 109), (Start: 7 @136 has 3 MA's), (8, 175), (Start: 10 @193 has 3 MA's), (12, 208), (13, 220), (14, 223), (15, 235), (16, 241), (17, 274), (19, 319), (20, 325), (21, 328), (27, 424), (28, 439), (29, 514), (31, 556),

Gene: Nichirin_1 Start: 193, Stop: 564, Start Num: 10

Candidate Starts for Nichirin_1:

(5, 109), (Start: 7 @136 has 3 MA's), (8, 175), (Start: 10 @193 has 3 MA's), (11, 196), (15, 235), (16, 241), (17, 274), (18, 310), (19, 319), (20, 325), (26, 388), (29, 514), (31, 556),

Gene: Okabe_3 Start: 841, Stop: 1212, Start Num: 10

Candidate Starts for Okabe_3:

(4, 754), (Start: 7 @784 has 3 MA's), (8, 823), (Start: 10 @841 has 3 MA's), (12, 856), (13, 868), (14, 871), (15, 883), (16, 889), (17, 922), (19, 967), (20, 973), (21, 976), (27, 1072), (28, 1087), (29, 1162), (31, 1204),

Gene: Phalconet_1 Start: 136, Stop: 564, Start Num: 7

Candidate Starts for Phalconet_1:

(5, 109), (Start: 7 @136 has 3 MA's), (8, 175), (Start: 10 @193 has 3 MA's), (12, 208), (13, 220), (14, 223), (15, 235), (16, 241), (17, 274), (19, 319), (20, 325), (21, 328), (27, 424), (29, 514), (31, 556),