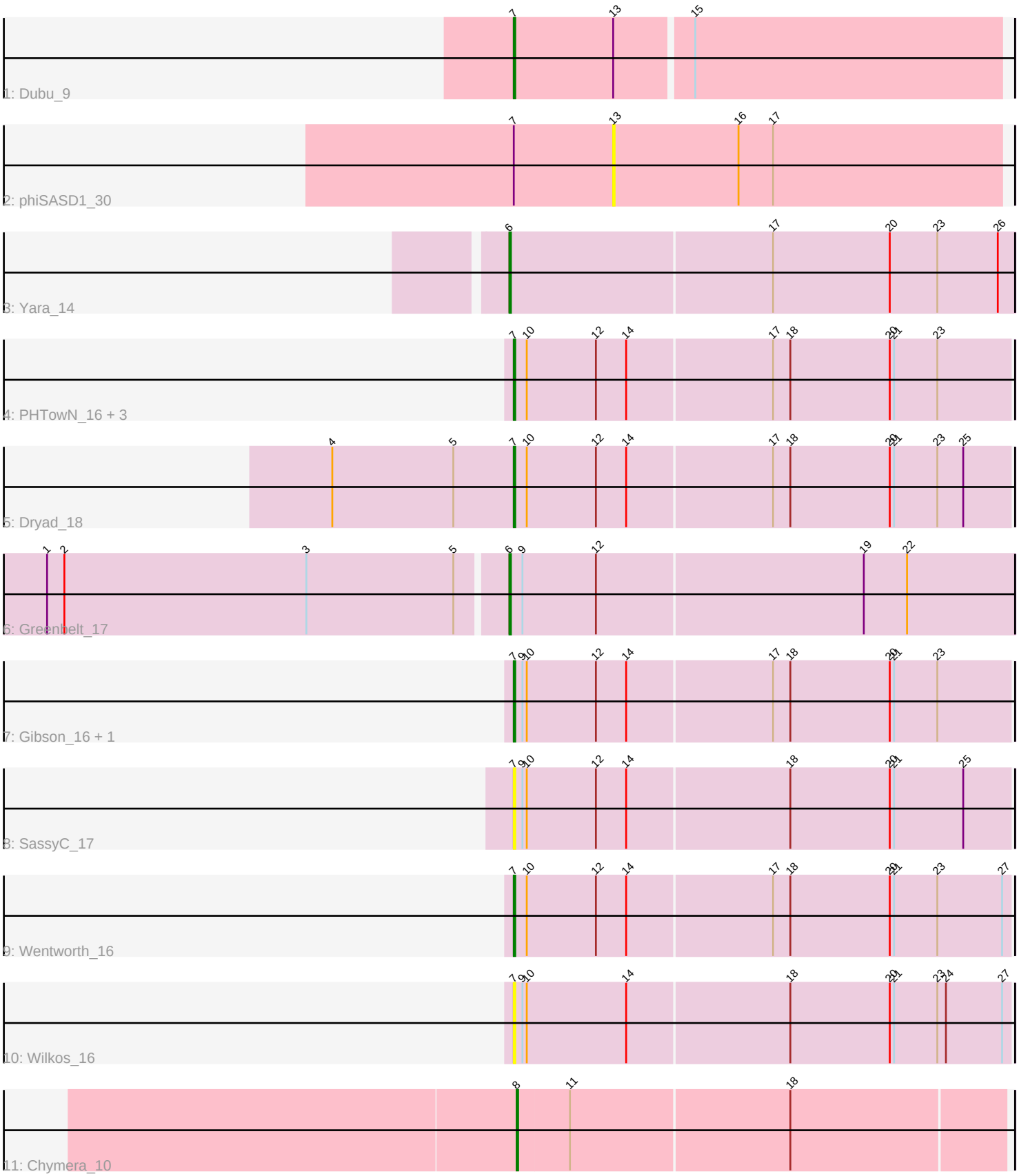
Pham 348150


1: Dubu_9
2: phiSASD1_30
3: Yara_14
4: PHTowN_16 + 3
5: Dryad_18
6: Greenbelt_17
7: Gibson_16 + 1
8: SassyC_17
9: Wentworth_16
10: Wilkos_16
11: Chymera_10

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 348150 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348150 has 15 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Dubu_9
• Track 2 : phiSASD1_30
• Track 3 : Yara_14
• Track 4 : PHTowN_16, Lizz_16, Virizion_18, ShakeNBake_16
• Track 5 : Dryad_18
• Track 6 : Greenbelt_17
• Track 7 : Gibson_16, Rooney_16
• Track 8 : SassyC_17
• Track 9 : Wentworth_16
• Track 10 : Wilkos_16
• Track 11 : Chymera_10

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 8 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_18, Dubu_9, Gibson_16, Lizz_16, PHTowN_16, Rooney_16, SassyC_17, ShakeNBake_16, Virizion_18, Wentworth_16, Wilkos_16,

Genes that have the "Most Annotated" start but do not call it:
• phiSASD1_30,

Genes that do not have the "Most Annotated" start:
• Chymera_10, Greenbelt_17, Yara_14,

Summary by start number:

Start 6:
• Found in 2 of 15 (13.3%) of genes in pham
• Manual Annotations of this start: 2 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_17 (BN), Yara_14 (BN),

Start 7:
• Found in 12 of 15 (80.0%) of genes in pham
• Manual Annotations of this start: 8 of 11
• Called 91.7% of time when present
• Phage (with cluster) where this start called: Dryad_18 (BN), Dubu_9 (BJ), Gibson_16 (BN), Lizz_16 (BN), PHTowN_16 (BN), Rooney_16 (BN), SassyC_17 (BN), ShakeNBake_16 (BN), Virizion_18 (BN), Wentworth_16 (BN), Wilkos_16 (BN),

Start 8:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chymera_10 (singleton),

Start 13:
• Found in 2 of 15 (13.3%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: phiSASD1_30 (BJ),

Summary by clusters:

There are 3 clusters represented in this pham: BN, singleton, BJ,

Info for manual annotations of cluster BJ:
•Start number 7 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BN:
•Start number 6 was manually annotated 2 times for cluster BN.
•Start number 7 was manually annotated 7 times for cluster BN.

Gene Information:

Gene: Chymera_10 Start: 8233, Stop: 8565, Start Num: 8
Candidate Starts for Chymera_10:
(Start: 8 @8233 has 1 MA's), (11, 8269), (18, 8419),

Gene: Dryad_18 Start: 10966, Stop: 11307, Start Num: 7
Candidate Starts for Dryad_18:
(4, 10840), (5, 10924), (Start: 7 @10966 has 8 MA's), (10, 10975), (12, 11023), (14, 11044), (17, 11143), (18, 11155), (20, 11224), (21, 11227), (23, 11257), (25, 11275),

Gene: Dubu_9 Start: 6888, Stop: 7220, Start Num: 7
Candidate Starts for Dubu_9:
(Start: 7 @6888 has 8 MA's), (13, 6957), (15, 7008),

Gene: Gibson_16 Start: 10527, Stop: 10868, Start Num: 7
Candidate Starts for Gibson_16:
(Start: 7 @10527 has 8 MA's), (9, 10533), (10, 10536), (12, 10584), (14, 10605), (17, 10704), (18, 10716), (20, 10785), (21, 10788), (23, 10818),

Gene: Greenbelt_17 Start: 10559, Stop: 10906, Start Num: 6
Candidate Starts for Greenbelt_17:
(1, 10244), (2, 10256), (3, 10424), (5, 10526), (Start: 6 @10559 has 2 MA's), (9, 10568), (12, 10619), (19, 10802), (22, 10832),

Gene: Lizz_16 Start: 10443, Stop: 10784, Start Num: 7
Candidate Starts for Lizz_16:
(Start: 7 @10443 has 8 MA's), (10, 10452), (12, 10500), (14, 10521), (17, 10620), (18, 10632), (20, 10701), (21, 10704), (23, 10734),

Gene: PHTowN_16 Start: 10443, Stop: 10784, Start Num: 7
Candidate Starts for PHTowN_16:
(Start: 7 @10443 has 8 MA's), (10, 10452), (12, 10500), (14, 10521), (17, 10620), (18, 10632), (20, 10701), (21, 10704), (23, 10734),

Gene: Rooney_16 Start: 10524, Stop: 10865, Start Num: 7
Candidate Starts for Rooney_16:
(Start: 7 @10524 has 8 MA's), (9, 10530), (10, 10533), (12, 10581), (14, 10602), (17, 10701), (18, 10713), (20, 10782), (21, 10785), (23, 10815),

Gene: SassyC_17 Start: 10236, Stop: 10577, Start Num: 7
Candidate Starts for SassyC_17:
(Start: 7 @10236 has 8 MA's), (9, 10242), (10, 10245), (12, 10293), (14, 10314), (18, 10425), (20, 10494), (21, 10497), (25, 10545),

Gene: ShakeNBake_16 Start: 10443, Stop: 10784, Start Num: 7
Candidate Starts for ShakeNBake_16:
(Start: 7 @10443 has 8 MA's), (10, 10452), (12, 10500), (14, 10521), (17, 10620), (18, 10632), (20, 10701), (21, 10704), (23, 10734),

Gene: Virizion_18 Start: 10757, Stop: 11098, Start Num: 7
Candidate Starts for Virizion_18:
(Start: 7 @10757 has 8 MA's), (10, 10766), (12, 10814), (14, 10835), (17, 10934), (18, 10946), (20, 11015), (21, 11018), (23, 11048),

Gene: Wentworth_16 Start: 10239, Stop: 10580, Start Num: 7
Candidate Starts for Wentworth_16:
(Start: 7 @10239 has 8 MA's), (10, 10248), (12, 10296), (14, 10317), (17, 10416), (18, 10428), (20, 10497), (21, 10500), (23, 10530), (27, 10575),

Gene: Wilkos_16 Start: 10408, Stop: 10749, Start Num: 7
Candidate Starts for Wilkos_16:
(Start: 7 @10408 has 8 MA's), (9, 10414), (10, 10417), (14, 10486), (18, 10597), (20, 10666), (21, 10669), (23, 10699), (24, 10705), (27, 10744),

Gene: Yara_14 Start: 9509, Stop: 9856, Start Num: 6
Candidate Starts for Yara_14:
(Start: 6 @9509 has 2 MA's), (17, 9689), (20, 9770), (23, 9803), (26, 9845),

Gene: phiSASD1_30 Start: 7168, Stop: 7437, Start Num: 13
Candidate Starts for phiSASD1_30:
(Start: 7 @7099 has 8 MA's), (13, 7168), (16, 7255), (17, 7279),