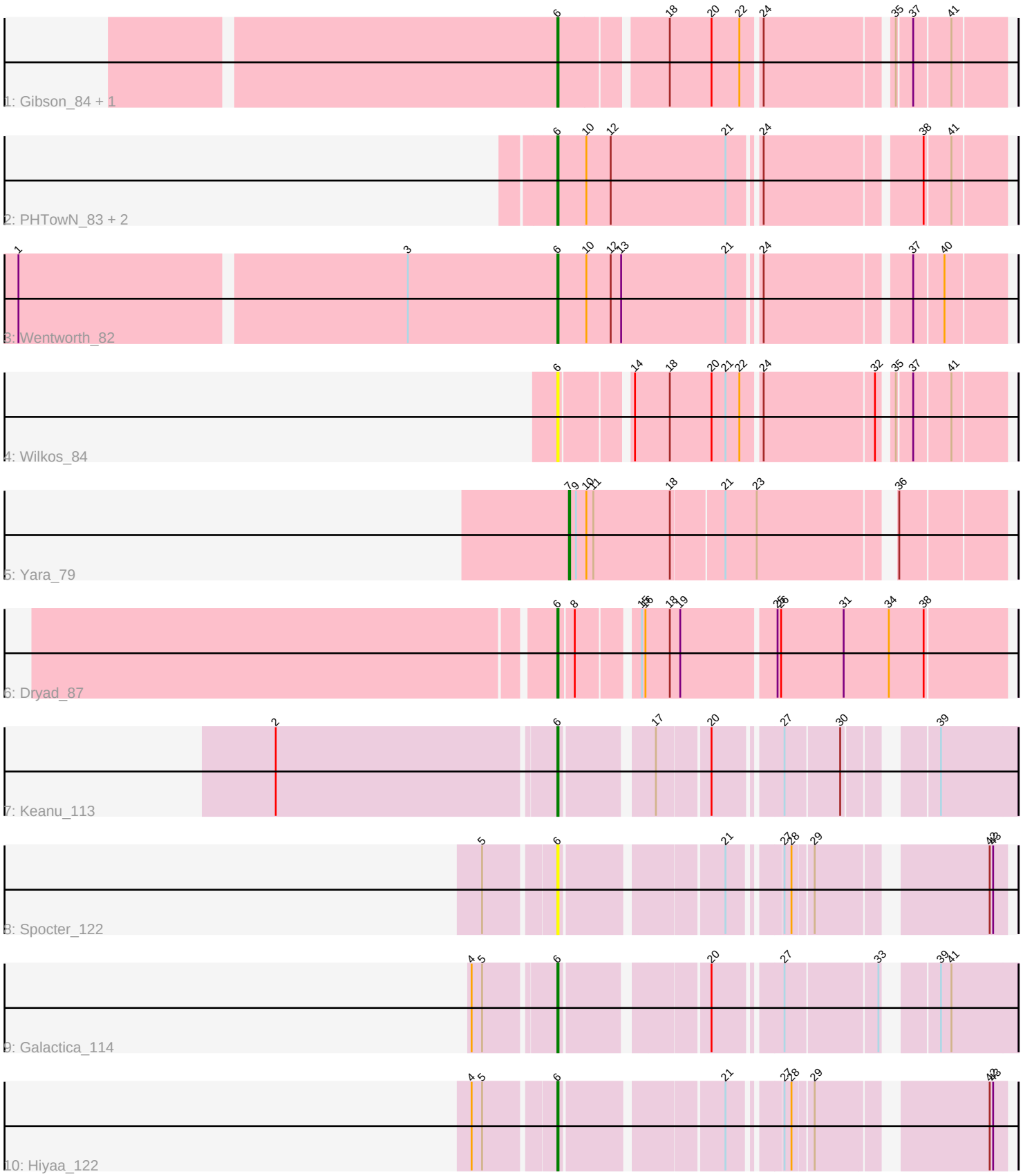
Pham 87198


1: Gibson_84 + 1
2: PHTowN_83 + 2
3: Wentworth_82
4: Wilkos_84
5: Yara_79
6: Dryad_87
7: Keanu_113
8: Spocter_122
9: Galactica_114
10: Hiyaa_122

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 87198 Report

This analysis was run 04/28/24 on database version 559.

Pham number 87198 has 13 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Gibson_84, Rooney_84
• Track 2 : PHTowN_83, Lizz_83, ShakeNBake_83
• Track 3 : Wentworth_82
• Track 4 : Wilkos_84
• Track 5 : Yara_79
• Track 6 : Dryad_87
• Track 7 : Keanu_113
• Track 8 : Spocter_122
• Track 9 : Galactica_114
• Track 10 : Hiyaa_122

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

The start number called the most often in the published annotations is 6, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_87, Galactica_114, Gibson_84, Hiyaa_122, Keanu_113, Lizz_83, PHTowN_83, Rooney_84, ShakeNBake_83, Spocter_122, Wentworth_82, Wilkos_84,

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

Genes that do not have the "Most Annotated" start:
• Yara_79,

Summary by start number:

Start 6:
• Found in 12 of 13 (92.3%) of genes in pham
• Manual Annotations of this start: 10 of 11
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Dryad_87 (BN), Galactica_114 (BQ), Gibson_84 (BN), Hiyaa_122 (BQ), Keanu_113 (BQ), Lizz_83 (BN), PHTowN_83 (BN), Rooney_84 (BN), ShakeNBake_83 (BN), Spocter_122 (BQ), Wentworth_82 (BN), Wilkos_84 (BN),

Start 7:
• Found in 1 of 13 (7.7%) 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: Yara_79 (BN),

Summary by clusters:

There are 2 clusters represented in this pham: BN, BQ,

Info for manual annotations of cluster BN:
•Start number 6 was manually annotated 7 times for cluster BN.
•Start number 7 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BQ:
•Start number 6 was manually annotated 3 times for cluster BQ.

Gene Information:

Gene: Dryad_87 Start: 57335, Stop: 56973, Start Num: 6
Candidate Starts for Dryad_87:
(Start: 6 @57335 has 10 MA's), (8, 57323), (15, 57278), (16, 57275), (18, 57254), (19, 57245), (25, 57167), (26, 57164), (31, 57110), (34, 57071), (38, 57041),

Gene: Galactica_114 Start: 79268, Stop: 79603, Start Num: 6
Candidate Starts for Galactica_114:
(4, 79202), (5, 79211), (Start: 6 @79268 has 10 MA's), (20, 79379), (27, 79430), (33, 79505), (39, 79538), (41, 79547),

Gene: Gibson_84 Start: 56774, Stop: 56427, Start Num: 6
Candidate Starts for Gibson_84:
(Start: 6 @56774 has 10 MA's), (18, 56690), (20, 56654), (22, 56630), (24, 56615), (35, 56513), (37, 56501), (41, 56471),

Gene: Hiyaa_122 Start: 81305, Stop: 81631, Start Num: 6
Candidate Starts for Hiyaa_122:
(4, 81239), (5, 81248), (Start: 6 @81305 has 10 MA's), (21, 81431), (27, 81467), (28, 81473), (29, 81488), (42, 81617), (43, 81620),

Gene: Keanu_113 Start: 79948, Stop: 80280, Start Num: 6
Candidate Starts for Keanu_113:
(2, 79714), (Start: 6 @79948 has 10 MA's), (17, 80017), (20, 80059), (27, 80110), (30, 80155), (39, 80215),

Gene: Lizz_83 Start: 56767, Stop: 56411, Start Num: 6
Candidate Starts for Lizz_83:

(Start: 6 @56767 has 10 MA's), (10, 56743), (12, 56722), (21, 56623), (24, 56602), (38, 56476), (41, 56455),

Gene: PHTowN_83 Start: 56765, Stop: 56409, Start Num: 6
Candidate Starts for PHTowN_83:
(Start: 6 @56765 has 10 MA's), (10, 56741), (12, 56720), (21, 56621), (24, 56600), (38, 56474), (41, 56453),

Gene: Rooney_84 Start: 56782, Stop: 56435, Start Num: 6
Candidate Starts for Rooney_84:
(Start: 6 @56782 has 10 MA's), (18, 56698), (20, 56662), (22, 56638), (24, 56623), (35, 56521), (37, 56509), (41, 56479),

Gene: ShakeNBake_83 Start: 56792, Stop: 56436, Start Num: 6
Candidate Starts for ShakeNBake_83:
(Start: 6 @56792 has 10 MA's), (10, 56768), (12, 56747), (21, 56648), (24, 56627), (38, 56501), (41, 56480),

Gene: Spocter_122 Start: 80837, Stop: 81163, Start Num: 6
Candidate Starts for Spocter_122:
(5, 80780), (Start: 6 @80837 has 10 MA's), (21, 80963), (27, 80999), (28, 81005), (29, 81020), (42, 81149), (43, 81152),

Gene: Wentworth_82 Start: 56226, Stop: 55870, Start Num: 6
Candidate Starts for Wentworth_82:
(1, 56679), (3, 56355), (Start: 6 @56226 has 10 MA's), (10, 56202), (12, 56181), (13, 56172), (21, 56082), (24, 56061), (37, 55944), (40, 55920),

Gene: Wilkos_84 Start: 56374, Stop: 56030, Start Num: 6
Candidate Starts for Wilkos_84:
(Start: 6 @56374 has 10 MA's), (14, 56323), (18, 56293), (20, 56257), (21, 56245), (22, 56233), (24, 56218), (32, 56125), (35, 56116), (37, 56104), (41, 56074),

Gene: Yara_79 Start: 54837, Stop: 54490, Start Num: 7
Candidate Starts for Yara_79:
(Start: 7 @54837 has 1 MA's), (9, 54831), (10, 54822), (11, 54816), (18, 54750), (21, 54708), (23, 54681), (36, 54576),