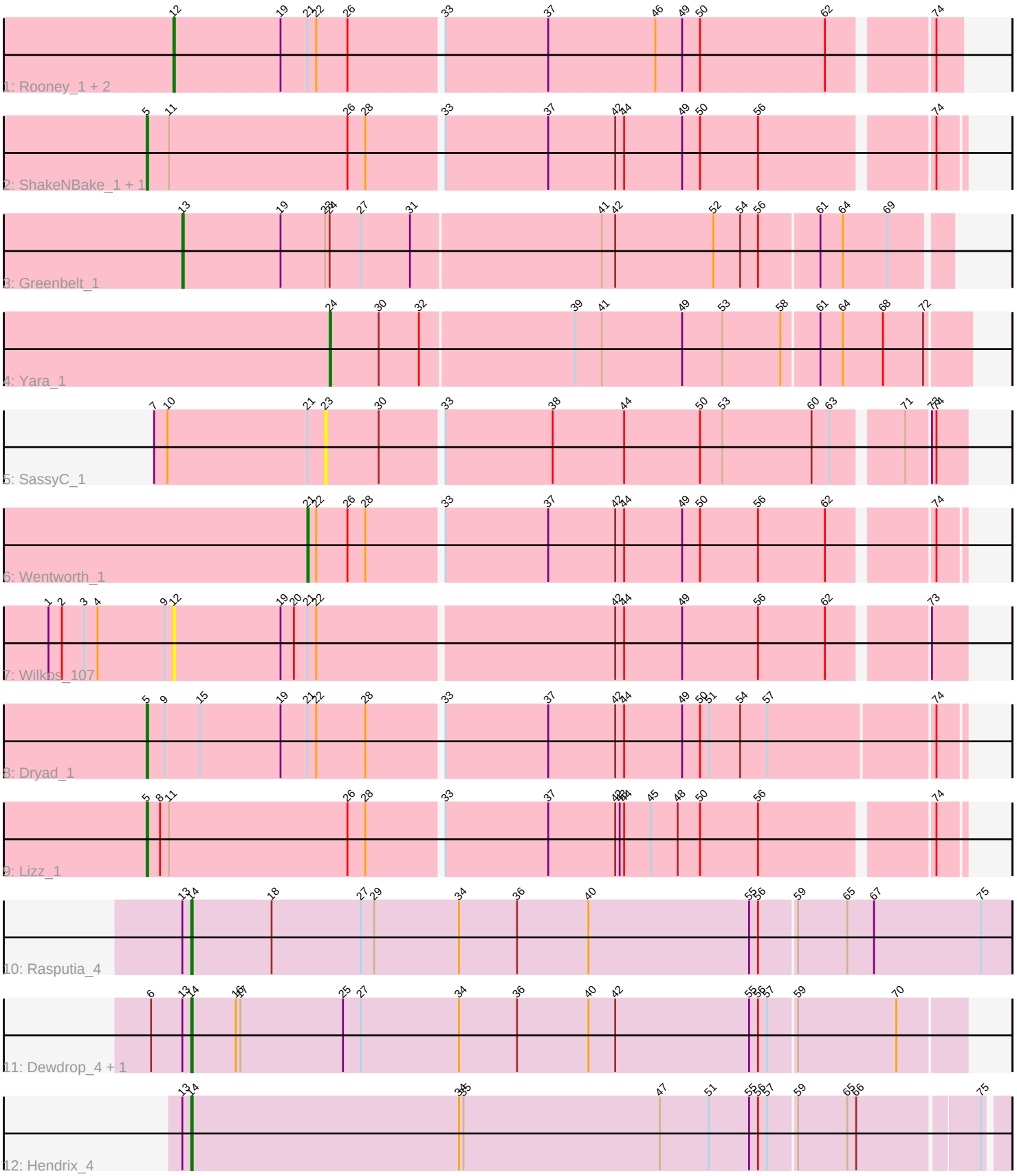
Pham 341206


1: Rooney_1 + 2
2: ShakeNBake_1 + 1
3: Greenbelt_1
4: Yara_1
5: SassyC_1
6: Wentworth_1
7: Wilkbs_107
8: Dryad_1
9: Lizz_1
10: Rasputia_4
11: Dewdrop_4 + 1
12: Hendrix_4

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 341206 Report

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

Pham number 341206 has 16 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Rooney_1, Virizion_1, Gibson_1
• Track 2 : ShakeNBake_1, PHTowN_1
• Track 3 : Greenbelt_1
• Track 4 : Yara_1
• Track 5 : SassyC_1
• Track 6 : Wentworth_1
• Track 7 : Wilkos_107
• Track 8 : Dryad_1
• Track 9 : Lizz_1
• Track 10 : Rasputia_4
• Track 11 : Dewdrop_4, Leaf_4
• Track 12 : Hendrix_4

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

The start number called the most often in the published annotations is 14, it was called in 4 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dewdrop_4, Hendrix_4, Leaf_4, Rasputia_4,

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

Genes that do not have the "Most Annotated" start:
• Dryad_1, Gibson_1, Greenbelt_1, Lizz_1, PHTowN_1, Rooney_1, SassyC_1, ShakeNBake_1, Virizion_1, Wentworth_1, Wilkos_107, Yara_1,

Summary by start number:

Start 5:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 4 of 13
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Dryad_1 (BN), Lizz_1 (BN), PHTowN_1 (BN), ShakeNBake_1 (BN),

Start 12:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gibson_1 (BN), Rooney_1 (BN), Virizion_1 (BN), Wilkos_107 (BN),

Start 13:
• Found in 5 of 16 (31.2%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_1 (BN),

Start 14:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 4 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dewdrop_4 (GC), Hendrix_4 (GC), Leaf_4 (GC), Rasputia_4 (GC),

Start 21:
• Found in 7 of 16 (43.8%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Wentworth_1 (BN),

Start 23:
• Found in 2 of 16 (12.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: SassyC_1 (BN),

Start 24:
• Found in 2 of 16 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Yara_1 (BN),

Summary by clusters:

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

Info for manual annotations of cluster BN:
•Start number 5 was manually annotated 4 times for cluster BN.
•Start number 12 was manually annotated 2 times for cluster BN.
•Start number 13 was manually annotated 1 time for cluster BN.
•Start number 21 was manually annotated 1 time for cluster BN.
•Start number 24 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster GC:

•Start number 14 was manually annotated 4 times for cluster GC.

Gene Information:

Gene: Dewdrop_4 Start: 1871, Stop: 2386, Start Num: 14
Candidate Starts for Dewdrop_4:
(6, 1844), (Start: 13 @1865 has 1 MA's), (Start: 14 @1871 has 4 MA's), (16, 1901), (17, 1904), (25, 1973), (27, 1985), (34, 2051), (36, 2090), (40, 2138), (42, 2156), (55, 2246), (56, 2252), (57, 2258), (59, 2276), (70, 2342),

Gene: Dryad_1 Start: 1, Stop: 537, Start Num: 5
Candidate Starts for Dryad_1:
(Start: 5 @1 has 4 MA's), (9, 13), (15, 37), (19, 91), (Start: 21 @109 has 1 MA's), (22, 115), (28, 148), (33, 196), (37, 265), (42, 310), (44, 316), (49, 355), (50, 367), (51, 373), (54, 394), (57, 412), (74, 520),

Gene: Gibson_1 Start: 1, Stop: 513, Start Num: 12
Candidate Starts for Gibson_1:
(Start: 12 @1 has 2 MA's), (19, 73), (Start: 21 @91 has 1 MA's), (22, 97), (26, 118), (33, 178), (37, 247), (46, 319), (49, 337), (50, 349), (62, 433), (74, 496),

Gene: Greenbelt_1 Start: 1, Stop: 507, Start Num: 13
Candidate Starts for Greenbelt_1:
(Start: 13 @1 has 1 MA's), (19, 67), (23, 97), (Start: 24 @100 has 1 MA's), (27, 121), (31, 154), (41, 280), (42, 289), (52, 355), (54, 373), (56, 385), (61, 424), (64, 439), (69, 469),

Gene: Hendrix_4 Start: 1994, Stop: 2530, Start Num: 14
Candidate Starts for Hendrix_4:
(Start: 13 @1988 has 1 MA's), (Start: 14 @1994 has 4 MA's), (34, 2174), (35, 2177), (47, 2309), (51, 2342), (55, 2369), (56, 2375), (57, 2381), (59, 2399), (65, 2432), (66, 2438), (75, 2516),

Gene: Leaf_4 Start: 1871, Stop: 2386, Start Num: 14
Candidate Starts for Leaf_4:
(6, 1844), (Start: 13 @1865 has 1 MA's), (Start: 14 @1871 has 4 MA's), (16, 1901), (17, 1904), (25, 1973), (27, 1985), (34, 2051), (36, 2090), (40, 2138), (42, 2156), (55, 2246), (56, 2252), (57, 2258), (59, 2276), (70, 2342),

Gene: Lizz_1 Start: 1, Stop: 531, Start Num: 5
Candidate Starts for Lizz_1:
(Start: 5 @1 has 4 MA's), (8, 10), (11, 16), (26, 136), (28, 148), (33, 196), (37, 265), (42, 310), (43, 313), (44, 316), (45, 334), (48, 352), (50, 367), (56, 406), (74, 514),

Gene: PHTowN_1 Start: 1, Stop: 531, Start Num: 5
Candidate Starts for PHTowN_1:
(Start: 5 @1 has 4 MA's), (11, 16), (26, 136), (28, 148), (33, 196), (37, 265), (42, 310), (44, 316), (49, 355), (50, 367), (56, 406), (74, 514),

Gene: Rasputia_4 Start: 1877, Stop: 2425, Start Num: 14
Candidate Starts for Rasputia_4:
(Start: 13 @1871 has 1 MA's), (Start: 14 @1877 has 4 MA's), (18, 1931), (27, 1991), (29, 2000), (34, 2057), (36, 2096), (40, 2144), (55, 2252), (56, 2258), (59, 2282), (65, 2315), (67, 2333), (75, 2405),

Gene: Rooney_1 Start: 1, Stop: 513, Start Num: 12
Candidate Starts for Rooney_1:
(Start: 12 @1 has 2 MA's), (19, 73), (Start: 21 @91 has 1 MA's), (22, 97), (26, 118), (33, 178), (37, 247), (46, 319), (49, 337), (50, 349), (62, 433), (74, 496),

Gene: SassyC_1 Start: 115, Stop: 528, Start Num: 23
Candidate Starts for SassyC_1:
(7, 1), (10, 10), (Start: 21 @103 has 1 MA's), (23, 115), (30, 151), (33, 190), (38, 262), (44, 310), (50, 361), (53, 376), (60, 436), (63, 448), (71, 490), (73, 505), (74, 508),

Gene: ShakeNBake_1 Start: 1, Stop: 531, Start Num: 5
Candidate Starts for ShakeNBake_1:
(Start: 5 @1 has 4 MA's), (11, 16), (26, 136), (28, 148), (33, 196), (37, 265), (42, 310), (44, 316), (49, 355), (50, 367), (56, 406), (74, 514),

Gene: Virizion_1 Start: 1, Stop: 513, Start Num: 12
Candidate Starts for Virizion_1:
(Start: 12 @1 has 2 MA's), (19, 73), (Start: 21 @91 has 1 MA's), (22, 97), (26, 118), (33, 178), (37, 247), (46, 319), (49, 337), (50, 349), (62, 433), (74, 496),

Gene: Wentworth_1 Start: 1, Stop: 423, Start Num: 21
Candidate Starts for Wentworth_1:
(Start: 21 @1 has 1 MA's), (22, 7), (26, 28), (28, 40), (33, 88), (37, 157), (42, 202), (44, 208), (49, 247), (50, 259), (56, 298), (62, 343), (74, 406),

Gene: Wilkos_107 Start: 69360, Stop: 426, Start Num: 12
Candidate Starts for Wilkos_107:
(1, 69276), (2, 69285), (3, 69300), (4, 69309), (9, 69354), (Start: 12 @69360 has 2 MA's), (19, 69432), (20, 69441), (Start: 21 @69450 has 1 MA's), (22, 69456), (42, 69651), (44, 69657), (49, 69696), (56, 69747), (62, 69792), (73, 69852),

Gene: Yara_1 Start: 1, Stop: 423, Start Num: 24
Candidate Starts for Yara_1:
(Start: 24 @1 has 1 MA's), (30, 34), (32, 61), (39, 163), (41, 181), (49, 235), (53, 262), (58, 301), (61, 325), (64, 340), (68, 367), (72, 394),