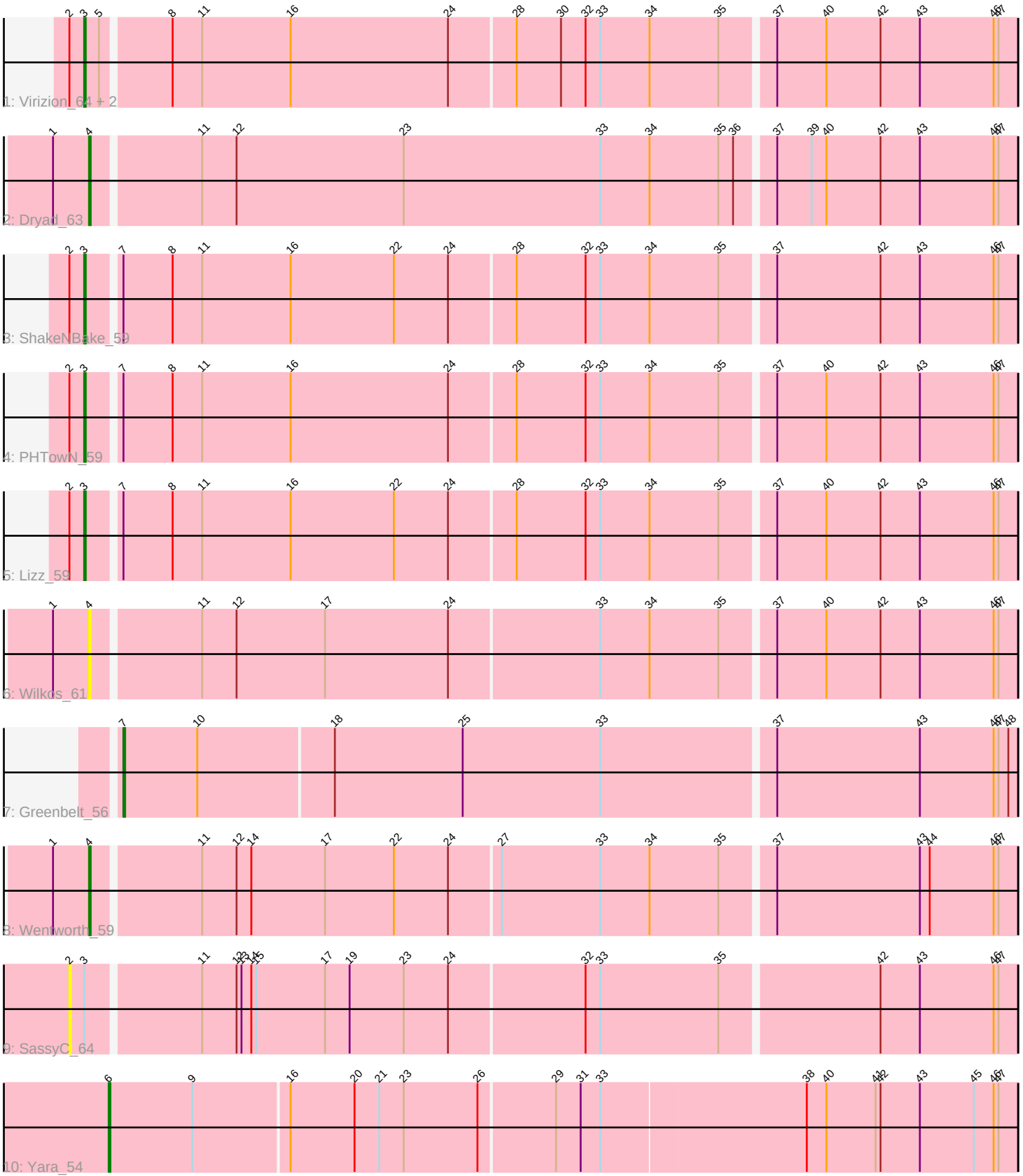
Pham 344590


1: Virizion_64 + 2
2: Dryad_63
3: ShakeNBake_59
4: PHTownN_59
5: Lizz_59
6: Wilkds_61
7: Greenbelt_56
8: Wentworth_59
9: SassyC_64
10: Yara_54

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 344590 Report

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

Pham number 344590 has 12 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Virizion_64, Rooney_59, Gibson_59
• Track 2 : Dryad_63
• Track 3 : ShakeNBake_59
• Track 4 : PHTowN_59
• Track 5 : Lizz_59
• Track 6 : Wilkos_61
• Track 7 : Greenbelt_56
• Track 8 : Wentworth_59
• Track 9 : SassyC_64
• Track 10 : Yara_54

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

The start number called the most often in the published annotations is 3, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Gibson_59, Lizz_59, PHTowN_59, Rooney_59, ShakeNBake_59, Virizion_64,

Genes that have the "Most Annotated" start but do not call it:
• SassyC_64,

Genes that do not have the "Most Annotated" start:
• Dryad_63, Greenbelt_56, Wentworth_59, Wilkos_61, Yara_54,

Summary by start number:

Start 2:
• 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: SassyC_64 (BN),

Start 3:

• Found in 7 of 12 (58.3%) of genes in pham
• Manual Annotations of this start: 5 of 9
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Gibson_59 (BN), Lizz_59 (BN), PHTowN_59 (BN), Rooney_59 (BN), ShakeNBake_59 (BN), Virizion_64 (BN),

Start 4:
• Found in 3 of 12 (25.0%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_63 (BN), Wentworth_59 (BN), Wilkos_61 (BN),

Start 6:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yara_54 (BN),

Start 7:
• Found in 4 of 12 (33.3%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_56 (BN),

Summary by clusters:

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:
•Start number 3 was manually annotated 5 times for cluster BN.
•Start number 4 was manually annotated 2 times for cluster BN.
•Start number 6 was manually annotated 1 time for cluster BN.
•Start number 7 was manually annotated 1 time for cluster BN.

Gene Information:

Gene: Dryad_63 Start: 43745, Stop: 43191, Start Num: 4
Candidate Starts for Dryad_63:
(1, 43766), (Start: 4 @43745 has 2 MA's), (11, 43682), (12, 43661), (23, 43559), (33, 43439), (34, 43409), (35, 43367), (36, 43358), (37, 43337), (39, 43316), (40, 43307), (42, 43274), (43, 43250), (46, 43205), (47, 43202),

Gene: Gibson_59 Start: 42975, Stop: 42421, Start Num: 3
Candidate Starts for Gibson_59:
(2, 42984), (Start: 3 @42975 has 5 MA's), (5, 42966), (8, 42927), (11, 42909), (16, 42855), (24, 42759), (28, 42720), (30, 42693), (32, 42678), (33, 42669), (34, 42639), (35, 42597), (37, 42567), (40, 42537), (42, 42504), (43, 42480), (46, 42435), (47, 42432),

Gene: Greenbelt_56 Start: 39084, Stop: 38548, Start Num: 7
Candidate Starts for Greenbelt_56:

(Start: 7 @39084 has 1 MA's), (10, 39039), (18, 38958), (25, 38880), (33, 38796), (37, 38694), (43, 38607), (46, 38562), (47, 38559), (48, 38553),

Gene: Lizz_59 Start: 42815, Stop: 42261, Start Num: 3
Candidate Starts for Lizz_59:
(2, 42824), (Start: 3 @42815 has 5 MA's), (Start: 7 @42797 has 1 MA's), (8, 42767), (11, 42749), (16, 42695), (22, 42632), (24, 42599), (28, 42560), (32, 42518), (33, 42509), (34, 42479), (35, 42437), (37, 42407), (40, 42377), (42, 42344), (43, 42320), (46, 42275), (47, 42272),

Gene: PHTowN_59 Start: 42813, Stop: 42259, Start Num: 3
Candidate Starts for PHTowN_59:
(2, 42822), (Start: 3 @42813 has 5 MA's), (Start: 7 @42795 has 1 MA's), (8, 42765), (11, 42747), (16, 42693), (24, 42597), (28, 42558), (32, 42516), (33, 42507), (34, 42477), (35, 42435), (37, 42405), (40, 42375), (42, 42342), (43, 42318), (46, 42273), (47, 42270),

Gene: Rooney_59 Start: 42972, Stop: 42418, Start Num: 3
Candidate Starts for Rooney_59:
(2, 42981), (Start: 3 @42972 has 5 MA's), (5, 42963), (8, 42924), (11, 42906), (16, 42852), (24, 42756), (28, 42717), (30, 42690), (32, 42675), (33, 42666), (34, 42636), (35, 42594), (37, 42564), (40, 42534), (42, 42501), (43, 42477), (46, 42432), (47, 42429),

Gene: SassyC_64 Start: 43965, Stop: 43402, Start Num: 2
Candidate Starts for SassyC_64:
(2, 43965), (Start: 3 @43956 has 5 MA's), (11, 43890), (12, 43869), (13, 43866), (14, 43860), (15, 43857), (17, 43815), (19, 43800), (23, 43767), (24, 43740), (32, 43659), (33, 43650), (35, 43578), (42, 43485), (43, 43461), (46, 43416), (47, 43413),

Gene: ShakeNBake_59 Start: 42831, Stop: 42277, Start Num: 3
Candidate Starts for ShakeNBake_59:
(2, 42840), (Start: 3 @42831 has 5 MA's), (Start: 7 @42813 has 1 MA's), (8, 42783), (11, 42765), (16, 42711), (22, 42648), (24, 42615), (28, 42576), (32, 42534), (33, 42525), (34, 42495), (35, 42453), (37, 42423), (42, 42360), (43, 42336), (46, 42291), (47, 42288),

Gene: Virizion_64 Start: 43171, Stop: 42617, Start Num: 3
Candidate Starts for Virizion_64:
(2, 43180), (Start: 3 @43171 has 5 MA's), (5, 43162), (8, 43123), (11, 43105), (16, 43051), (24, 42955), (28, 42916), (30, 42889), (32, 42874), (33, 42865), (34, 42835), (35, 42793), (37, 42763), (40, 42733), (42, 42700), (43, 42676), (46, 42631), (47, 42628),

Gene: Wentworth_59 Start: 42998, Stop: 42447, Start Num: 4
Candidate Starts for Wentworth_59:
(1, 43019), (Start: 4 @42998 has 2 MA's), (11, 42935), (12, 42914), (14, 42905), (17, 42860), (22, 42818), (24, 42785), (27, 42755), (33, 42695), (34, 42665), (35, 42623), (37, 42593), (43, 42506), (44, 42500), (46, 42461), (47, 42458),

Gene: Wilkos_61 Start: 43142, Stop: 42591, Start Num: 4
Candidate Starts for Wilkos_61:
(1, 43163), (Start: 4 @43142 has 2 MA's), (11, 43079), (12, 43058), (17, 43004), (24, 42929), (33, 42839), (34, 42809), (35, 42767), (37, 42737), (40, 42707), (42, 42674), (43, 42650), (46, 42605), (47, 42602),

Gene: Yara_54 Start: 41457, Stop: 40912, Start Num: 6
Candidate Starts for Yara_54:

(Start: 6 @41457 has 1 MA's), (9, 41406), (16, 41349), (20, 41310), (21, 41295), (23, 41280), (26, 41235), (29, 41190), (31, 41175), (33, 41163), (38, 41040), (40, 41028), (41, 40998), (42, 40995), (43, 40971), (45, 40938), (46, 40926), (47, 40923),