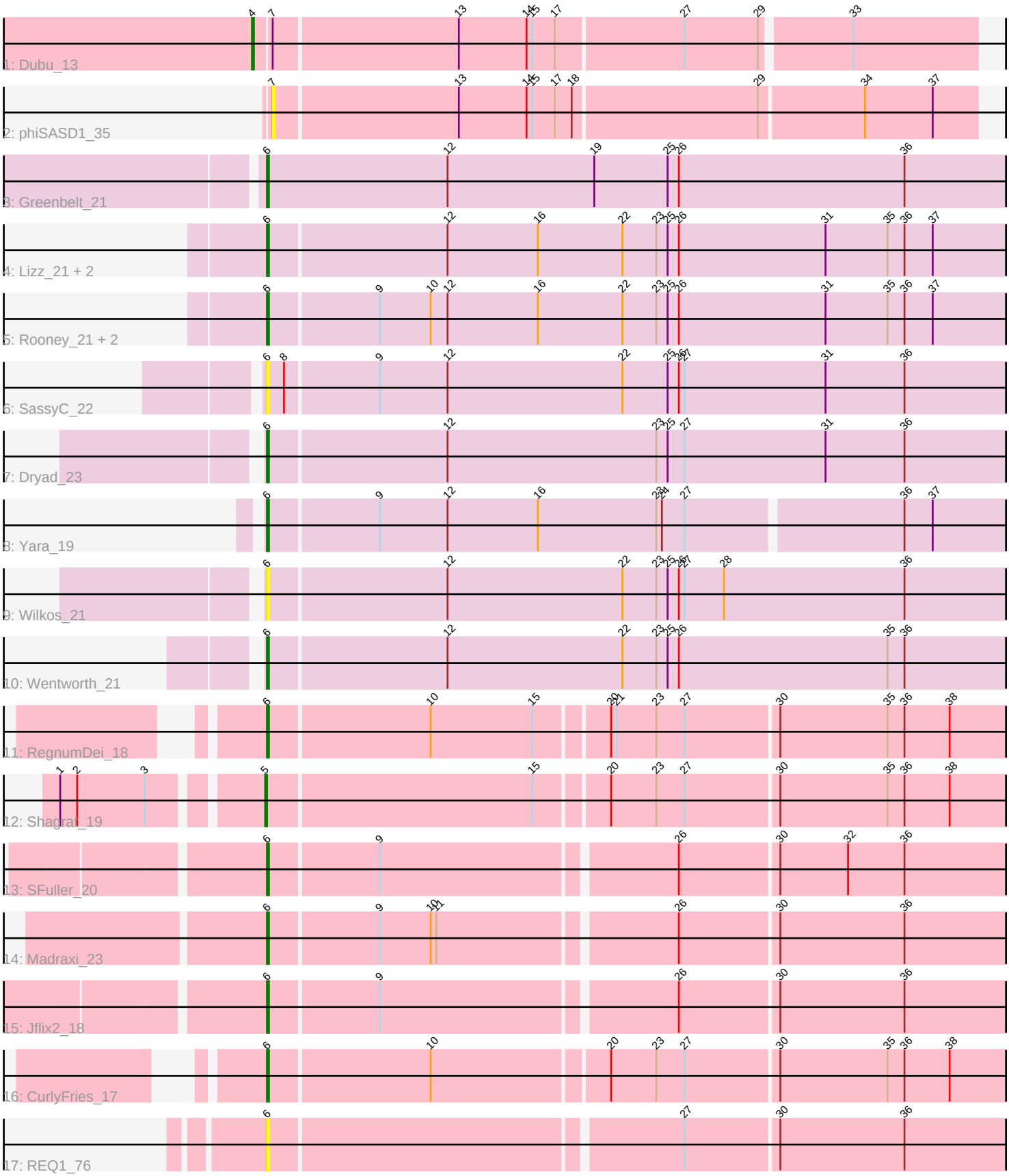
Pham 338538


1: Dubu_13
2: phiSASD1_35
3: Greenbelt_21
4: Lizz_21 + 2
5: Rooney_21 + 2
6: SassyC_22
7: Dryad_23
8: Yara_19
9: Wilkos_21
10: Wentworth_21
11: RegnumDei_18
12: Shagrat_19
13: SFuller_20
14: Madraxi_23
15: Jflix2_18
16: CurlyFries_17
17: REQ1_76

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 338538 Report

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

Pham number 338538 has 21 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Dubu_13
• Track 2 : phiSASD1_35
• Track 3 : Greenbelt_21
• Track 4 : Lizz_21, PHTowN_21, ShakeNBake_21
• Track 5 : Rooney_21, Gibson_21, Virizion_23
• Track 6 : SassyC_22
• Track 7 : Dryad_23
• Track 8 : Yara_19
• Track 9 : Wilkos_21
• Track 10 : Wentworth_21
• Track 11 : RegnumDei_18
• Track 12 : Shagrat_19
• Track 13 : SFuller_20
• Track 14 : Madraxi_23
• Track 15 : Jflix2_18
• Track 16 : CurlyFries_17
• Track 17 : REQ1_76

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 14 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CurlyFries_17, Dryad_23, Gibson_21, Greenbelt_21, Jflix2_18, Lizz_21, Madraxi_23, PHTowN_21, REQ1_76, RegnumDei_18, Rooney_21, SFuller_20, SassyC_22, ShakeNBake_21, Virizion_23, Wentworth_21, Wilkos_21, Yara_19,

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

Genes that do not have the "Most Annotated" start:
• Dubu_13, Shagrat_19, phiSASD1_35,

Summary by start number:

Start 4:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dubu_13 (BJ),

Start 5:
• Found in 1 of 21 (4.8%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shagrat_19 (CF),

Start 6:
• Found in 18 of 21 (85.7%) of genes in pham
• Manual Annotations of this start: 14 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_17 (CF), Dryad_23 (BN), Gibson_21 (BN), Greenbelt_21 (BN), Jflix2_18 (CF), Lizz_21 (BN), Madraxi_23 (CF), PHTowN_21 (BN), REQ1_76 (CF), RegnumDei_18 (CF), Rooney_21 (BN), SFuller_20 (CF), SassyC_22 (BN), ShakeNBake_21 (BN), Virizion_23 (BN), Wentworth_21 (BN), Wilkos_21 (BN), Yara_19 (BN),

Start 7:
• Found in 2 of 21 (9.5%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: phiSASD1_35 (BJ),

Summary by clusters:

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

Info for manual annotations of cluster BJ:
•Start number 4 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster BN:
•Start number 6 was manually annotated 9 times for cluster BN.

Info for manual annotations of cluster CF:
•Start number 5 was manually annotated 1 time for cluster CF.
•Start number 6 was manually annotated 5 times for cluster CF.

Gene Information:

Gene: CurlyFries_17 Start: 11759, Stop: 12160, Start Num: 6
Candidate Starts for CurlyFries_17:
(Start: 6 @11759 has 14 MA's), (10, 11843), (20, 11933), (23, 11957), (27, 11972), (30, 12020), (35, 12077), (36, 12086), (38, 12110),

Gene: Dryad_23 Start: 12692, Stop: 13102, Start Num: 6
Candidate Starts for Dryad_23:
(Start: 6 @12692 has 14 MA's), (12, 12785), (23, 12896), (25, 12902), (27, 12911), (31, 12986), (36, 13028),

Gene: Dubu_13 Start: 8435, Stop: 8806, Start Num: 4
Candidate Starts for Dubu_13:
(Start: 4 @8435 has 1 MA's), (7, 8444), (13, 8540), (14, 8576), (15, 8579), (17, 8591), (27, 8657), (29, 8696), (33, 8741),

Gene: Gibson_21 Start: 12262, Stop: 12672, Start Num: 6
Candidate Starts for Gibson_21:
(Start: 6 @12262 has 14 MA's), (9, 12319), (10, 12346), (12, 12355), (16, 12403), (22, 12448), (23, 12466), (25, 12472), (26, 12478), (31, 12556), (35, 12589), (36, 12598), (37, 12613),

Gene: Greenbelt_21 Start: 12114, Stop: 12527, Start Num: 6
Candidate Starts for Greenbelt_21:
(Start: 6 @12114 has 14 MA's), (12, 12210), (19, 12288), (25, 12327), (26, 12333), (36, 12453),

Gene: Jflix2_18 Start: 13907, Stop: 14305, Start Num: 6
Candidate Starts for Jflix2_18:
(Start: 6 @13907 has 14 MA's), (9, 13964), (26, 14114), (30, 14165), (36, 14231),

Gene: Lizz_21 Start: 12178, Stop: 12588, Start Num: 6
Candidate Starts for Lizz_21:
(Start: 6 @12178 has 14 MA's), (12, 12271), (16, 12319), (22, 12364), (23, 12382), (25, 12388), (26, 12394), (31, 12472), (35, 12505), (36, 12514), (37, 12529),

Gene: Madraxi_23 Start: 16345, Stop: 16743, Start Num: 6
Candidate Starts for Madraxi_23:
(Start: 6 @16345 has 14 MA's), (9, 16402), (10, 16429), (11, 16432), (26, 16552), (30, 16603), (36, 16669),

Gene: PHTowN_21 Start: 12178, Stop: 12588, Start Num: 6
Candidate Starts for PHTowN_21:
(Start: 6 @12178 has 14 MA's), (12, 12271), (16, 12319), (22, 12364), (23, 12382), (25, 12388), (26, 12394), (31, 12472), (35, 12505), (36, 12514), (37, 12529),

Gene: REQ1_76 Start: 37805, Stop: 38203, Start Num: 6
Candidate Starts for REQ1_76:
(Start: 6 @37805 has 14 MA's), (27, 38015), (30, 38063), (36, 38129),

Gene: RegnumDei_18 Start: 12475, Stop: 12876, Start Num: 6
Candidate Starts for RegnumDei_18:
(Start: 6 @12475 has 14 MA's), (10, 12559), (15, 12613), (20, 12649), (21, 12652), (23, 12673), (27, 12688), (30, 12736), (35, 12793), (36, 12802), (38, 12826),

Gene: Rooney_21 Start: 12259, Stop: 12669, Start Num: 6
Candidate Starts for Rooney_21:
(Start: 6 @12259 has 14 MA's), (9, 12316), (10, 12343), (12, 12352), (16, 12400), (22, 12445), (23, 12463), (25, 12469), (26, 12475), (31, 12553), (35, 12586), (36, 12595), (37, 12610),

Gene: SFuller_20 Start: 14519, Stop: 14917, Start Num: 6

Candidate Starts for SFuller_20:
(Start: 6 @14519 has 14 MA's), (9, 14576), (26, 14726), (30, 14777), (32, 14813), (36, 14843),

Gene: SassyC_22 Start: 11960, Stop: 12370, Start Num: 6
Candidate Starts for SassyC_22:
(Start: 6 @11960 has 14 MA's), (8, 11969), (9, 12017), (12, 12053), (22, 12146), (25, 12170), (26, 12176), (27, 12179), (31, 12254), (36, 12296),

Gene: Shagrat_19 Start: 13521, Stop: 13922, Start Num: 5
Candidate Starts for Shagrat_19:
(1, 13425), (2, 13434), (3, 13470), (Start: 5 @13521 has 1 MA's), (15, 13659), (20, 13695), (23, 13719), (27, 13734), (30, 13782), (35, 13839), (36, 13848), (38, 13872),

Gene: ShakeNBake_21 Start: 12178, Stop: 12588, Start Num: 6
Candidate Starts for ShakeNBake_21:
(Start: 6 @12178 has 14 MA's), (12, 12271), (16, 12319), (22, 12364), (23, 12382), (25, 12388), (26, 12394), (31, 12472), (35, 12505), (36, 12514), (37, 12529),

Gene: Virizion_23 Start: 12492, Stop: 12902, Start Num: 6
Candidate Starts for Virizion_23:
(Start: 6 @12492 has 14 MA's), (9, 12549), (10, 12576), (12, 12585), (16, 12633), (22, 12678), (23, 12696), (25, 12702), (26, 12708), (31, 12786), (35, 12819), (36, 12828), (37, 12843),

Gene: Wentworth_21 Start: 11956, Stop: 12366, Start Num: 6
Candidate Starts for Wentworth_21:
(Start: 6 @11956 has 14 MA's), (12, 12049), (22, 12142), (23, 12160), (25, 12166), (26, 12172), (35, 12283), (36, 12292),

Gene: Wilkos_21 Start: 12125, Stop: 12535, Start Num: 6
Candidate Starts for Wilkos_21:
(Start: 6 @12125 has 14 MA's), (12, 12218), (22, 12311), (23, 12329), (25, 12335), (26, 12341), (27, 12344), (28, 12365), (36, 12461),

Gene: Yara_19 Start: 11456, Stop: 11860, Start Num: 6
Candidate Starts for Yara_19:
(Start: 6 @11456 has 14 MA's), (9, 11513), (12, 11549), (16, 11597), (23, 11660), (24, 11663), (27, 11675), (36, 11786), (37, 11801),

Gene: phiSASD1_35 Start: 8991, Stop: 9356, Start Num: 7
Candidate Starts for phiSASD1_35:
(7, 8991), (13, 9087), (14, 9123), (15, 9126), (17, 9138), (18, 9147), (29, 9243), (34, 9297), (37, 9333),