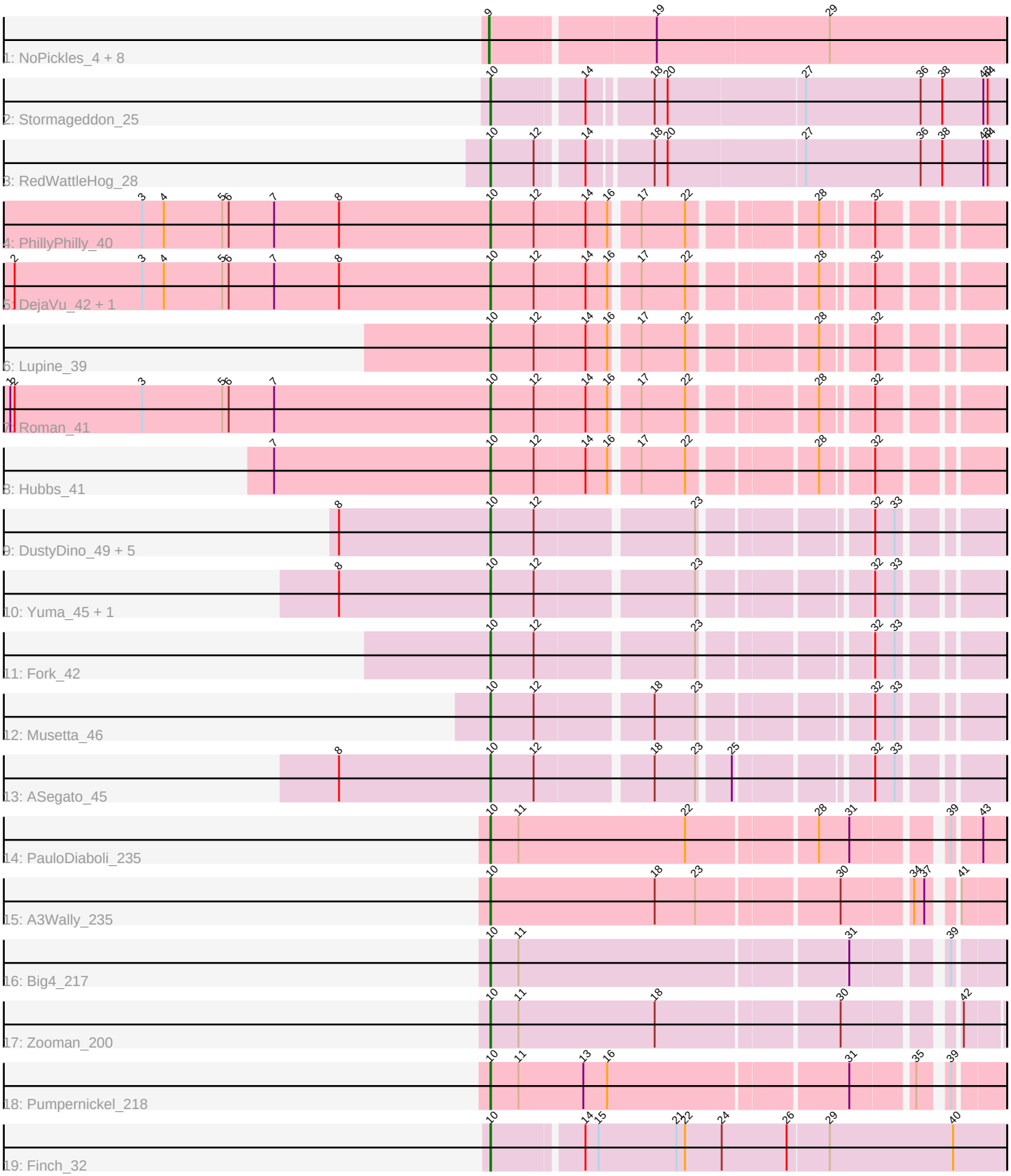
Pham 192763


1: NoPickles_4 + 8
2: Stormageddon_25
3: RedWattleHog_28
4: PhillyPhilly_40
5: DejaVu_42 + 1
6: Lupine_39
7: Roman_41
8: Hubbs_41
9: DustyDino_49 + 5
10: Yuma_45 + 1
11: Fork_42
12: Musetta_46
13: ASegato_45
14: PauloDiaboli_235
15: A3Wally_235
16: Big4_217
17: Zooman_200
18: Pumpernickel_218
19: Finch_32

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 192763 Report

This analysis was run 11/02/24 on database version 579.

Pham number 192763 has 34 members, 3 are drafts.

Phages represented in each track:
• Track 1 : NoPickles_4, Magel_4, Odesza_4, Capybara_4, Kerry_4, Gill_4, Roney_4, Tanis_4, Gravy_4
• Track 2 : Stormageddon_25
• Track 3 : RedWattleHog_28
• Track 4 : PhillyPhilly_40
• Track 5 : DejaVu_42, Pavlo_39
• Track 6 : Lupine_39
• Track 7 : Roman_41
• Track 8 : Hubbs_41
• Track 9 : DustyDino_49, Welcome_47, Lyell_46, RunningBrook_48, StevieWelch_46, Necrophoxinus_48
• Track 10 : Yuma_45, Erenyeager_46
• Track 11 : Fork_42
• Track 12 : Musetta_46
• Track 13 : ASegato_45
• Track 14 : PauloDiaboli_235
• Track 15 : A3Wally_235
• Track 16 : Big4_217
• Track 17 : Zooman_200
• Track 18 : Pumpernickel_218
• Track 19 : Finch_32

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

The start number called the most often in the published annotations is 10, it was called in 23 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_235, ASegato_45, Big4_217, DejaVu_42, DustyDino_49, Erenyeager_46, Finch_32, Fork_42, Hubbs_41, Lupine_39, Lyell_46, Musetta_46, Necrophoxinus_48, PauloDiaboli_235, Pavlo_39, PhillyPhilly_40, Pumpernickel_218, RedWattleHog_28, Roman_41, RunningBrook_48, StevieWelch_46, Stormageddon_25, Welcome_47, Yuma_45, Zooman_200,

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

Genes that do not have the "Most Annotated" start:
• Capybara_4, Gill_4, Gravy_4, Kerry_4, Magel_4, NoPickles_4, Odesza_4, Roney_4, Tanis_4,

Summary by start number:

Start 9:
• Found in 9 of 34 (26.5%) of genes in pham
• Manual Annotations of this start: 8 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Capybara_4 (DJ), Gill_4 (DJ), Gravy_4 (DJ), Kerry_4 (DJ), Magel_4 (DJ), NoPickles_4 (DJ), Odesza_4 (DJ), Roney_4 (DJ), Tanis_4 (DJ),

Start 10:
• Found in 25 of 34 (73.5%) of genes in pham
• Manual Annotations of this start: 23 of 31
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_235 (GD1), ASegato_45 (ED2), Big4_217 (GD2), DejaVu_42 (ED1), DustyDino_49 (ED2), Erenyeager_46 (ED2), Finch_32 (singleton), Fork_42 (ED2), Hubbs_41 (ED1), Lupine_39 (ED1), Lyell_46 (ED2), Musetta_46 (ED2), Necrophoxinus_48 (ED2), PauloDiaboli_235 (GD1), Pavlo_39 (ED1), PhillyPhilly_40 (ED1), Pumpernickel_218 (GD4), RedWattleHog_28 (DX), Roman_41 (ED1), RunningBrook_48 (ED2), StevieWelch_46 (ED2), Stormageddon_25 (DX), Welcome_47 (ED2), Yuma_45 (ED2), Zooman_200 (GD2),

Summary by clusters:

There are 8 clusters represented in this pham: GD1, GD2, DJ, singleton, ED2, ED1, DX, GD4,

Info for manual annotations of cluster DJ:
•Start number 9 was manually annotated 8 times for cluster DJ.

Info for manual annotations of cluster DX:
•Start number 10 was manually annotated 2 times for cluster DX.

Info for manual annotations of cluster ED1:
•Start number 10 was manually annotated 6 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 10 was manually annotated 9 times for cluster ED2.

Info for manual annotations of cluster GD1:
•Start number 10 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 10 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD4:
•Start number 10 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_235 Start: 125991, Stop: 126635, Start Num: 10
Candidate Starts for A3Wally_235:
(Start: 10 @125991 has 23 MA's), (18, 126219), (23, 126273), (30, 126456), (34, 126543), (37, 126555), (41, 126579),

Gene: ASegato_45 Start: 19908, Stop: 20519, Start Num: 10
Candidate Starts for ASegato_45:
(8, 19698), (Start: 10 @19908 has 23 MA's), (12, 19968), (18, 20118), (23, 20172), (25, 20211), (32, 20373), (33, 20400),

Gene: Big4_217 Start: 121400, Stop: 122044, Start Num: 10
Candidate Starts for Big4_217:
(Start: 10 @121400 has 23 MA's), (11, 121439), (31, 121877), (39, 121982),

Gene: Capybara_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for Capybara_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: DejaVu_42 Start: 19157, Stop: 19768, Start Num: 10
Candidate Starts for DejaVu_42:
(2, 18497), (3, 18674), (4, 18704), (5, 18785), (6, 18794), (7, 18857), (8, 18947), (Start: 10 @19157 has 23 MA's), (12, 19217), (14, 19286), (16, 19316), (17, 19349), (22, 19409), (28, 19562), (32, 19622),

Gene: DustyDino_49 Start: 20847, Stop: 21458, Start Num: 10
Candidate Starts for DustyDino_49:
(8, 20637), (Start: 10 @20847 has 23 MA's), (12, 20907), (23, 21111), (32, 21312), (33, 21339),

Gene: Erenyeager_46 Start: 20242, Stop: 20853, Start Num: 10
Candidate Starts for Erenyeager_46:
(8, 20032), (Start: 10 @20242 has 23 MA's), (12, 20302), (23, 20506), (32, 20707), (33, 20734),

Gene: Finch_32 Start: 27174, Stop: 27863, Start Num: 10
Candidate Starts for Finch_32:
(Start: 10 @27174 has 23 MA's), (14, 27291), (15, 27309), (21, 27417), (22, 27429), (24, 27477), (26, 27567), (29, 27621), (40, 27792),

Gene: Fork_42 Start: 19557, Stop: 20168, Start Num: 10
Candidate Starts for Fork_42:
(Start: 10 @19557 has 23 MA's), (12, 19617), (23, 19821), (32, 20022), (33, 20049),

Gene: Gill_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for Gill_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: Gravy_4 Start: 1145, Stop: 1834, Start Num: 9

Candidate Starts for Gravy_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: Hubbs_41 Start: 19369, Stop: 19980, Start Num: 10
Candidate Starts for Hubbs_41:
(7, 19069), (Start: 10 @19369 has 23 MA's), (12, 19429), (14, 19498), (16, 19528), (17, 19561), (22, 19621), (28, 19774), (32, 19834),

Gene: Kerry_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for Kerry_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: Lupine_39 Start: 18570, Stop: 19181, Start Num: 10
Candidate Starts for Lupine_39:
(Start: 10 @18570 has 23 MA's), (12, 18630), (14, 18699), (16, 18729), (17, 18762), (22, 18822), (28, 18975), (32, 19035),

Gene: Lyell_46 Start: 20161, Stop: 20772, Start Num: 10
Candidate Starts for Lyell_46:
(8, 19951), (Start: 10 @20161 has 23 MA's), (12, 20221), (23, 20425), (32, 20626), (33, 20653),

Gene: Magel_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for Magel_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: Musetta_46 Start: 20279, Stop: 20890, Start Num: 10
Candidate Starts for Musetta_46:
(Start: 10 @20279 has 23 MA's), (12, 20339), (18, 20489), (23, 20543), (32, 20744), (33, 20771),

Gene: Necrophoxinus_48 Start: 20855, Stop: 21466, Start Num: 10
Candidate Starts for Necrophoxinus_48:
(8, 20645), (Start: 10 @20855 has 23 MA's), (12, 20915), (23, 21119), (32, 21320), (33, 21347),

Gene: NoPickles_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for NoPickles_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: Odesza_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for Odesza_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: PauloDiaboli_235 Start: 124195, Stop: 124839, Start Num: 10
Candidate Starts for PauloDiaboli_235:
(Start: 10 @124195 has 23 MA's), (11, 124234), (22, 124465), (28, 124630), (31, 124672), (39, 124777), (43, 124810),

Gene: Pavlo_39 Start: 18848, Stop: 19459, Start Num: 10
Candidate Starts for Pavlo_39:
(2, 18188), (3, 18365), (4, 18395), (5, 18476), (6, 18485), (7, 18548), (8, 18638), (Start: 10 @18848 has 23 MA's), (12, 18908), (14, 18977), (16, 19007), (17, 19040), (22, 19100), (28, 19253), (32, 19313),

Gene: PhillyPhilly_40 Start: 18750, Stop: 19361, Start Num: 10

Candidate Starts for PhillyPhilly_40:
(3, 18267), (4, 18297), (5, 18378), (6, 18387), (7, 18450), (8, 18540), (Start: 10 @18750 has 23 MA's), (12, 18810), (14, 18879), (16, 18909), (17, 18942), (22, 19002), (28, 19155), (32, 19215),

Gene: Pumpernickel_218 Start: 125283, Stop: 125930, Start Num: 10
Candidate Starts for Pumpernickel_218:
(Start: 10 @125283 has 23 MA's), (11, 125322), (13, 125412), (16, 125445), (31, 125760), (35, 125838), (39, 125865),

Gene: RedWattleHog_28 Start: 28686, Stop: 29360, Start Num: 10
Candidate Starts for RedWattleHog_28:
(Start: 10 @28686 has 23 MA's), (12, 28746), (14, 28803), (18, 28884), (20, 28902), (27, 29085), (36, 29244), (38, 29274), (43, 29331), (44, 29337),

Gene: Roman_41 Start: 19216, Stop: 19827, Start Num: 10
Candidate Starts for Roman_41:
(1, 18550), (2, 18556), (3, 18733), (5, 18844), (6, 18853), (7, 18916), (Start: 10 @19216 has 23 MA's), (12, 19276), (14, 19345), (16, 19375), (17, 19408), (22, 19468), (28, 19621), (32, 19681),

Gene: Roney_4 Start: 1145, Stop: 1834, Start Num: 9
Candidate Starts for Roney_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1592),

Gene: RunningBrook_48 Start: 20847, Stop: 21458, Start Num: 10
Candidate Starts for RunningBrook_48:
(8, 20637), (Start: 10 @20847 has 23 MA's), (12, 20907), (23, 21111), (32, 21312), (33, 21339),

Gene: StevieWelch_46 Start: 20247, Stop: 20858, Start Num: 10
Candidate Starts for StevieWelch_46:
(8, 20037), (Start: 10 @20247 has 23 MA's), (12, 20307), (23, 20511), (32, 20712), (33, 20739),

Gene: Stormageddon_25 Start: 28669, Stop: 29343, Start Num: 10
Candidate Starts for Stormageddon_25:
(Start: 10 @28669 has 23 MA's), (14, 28786), (18, 28867), (20, 28885), (27, 29068), (36, 29227), (38, 29257), (43, 29314), (44, 29320),

Gene: Tanis_4 Start: 1145, Stop: 1684, Start Num: 9
Candidate Starts for Tanis_4:
(Start: 9 @1145 has 8 MA's), (19, 1358), (29, 1442),

Gene: Welcome_47 Start: 20264, Stop: 20875, Start Num: 10
Candidate Starts for Welcome_47:
(8, 20054), (Start: 10 @20264 has 23 MA's), (12, 20324), (23, 20528), (32, 20729), (33, 20756),

Gene: Yuma_45 Start: 20175, Stop: 20786, Start Num: 10
Candidate Starts for Yuma_45:
(8, 19965), (Start: 10 @20175 has 23 MA's), (12, 20235), (23, 20439), (32, 20640), (33, 20667),

Gene: Zooman_200 Start: 118042, Stop: 118683, Start Num: 10
Candidate Starts for Zooman_200:
(Start: 10 @118042 has 23 MA's), (11, 118081), (18, 118270), (30, 118507), (42, 118633),