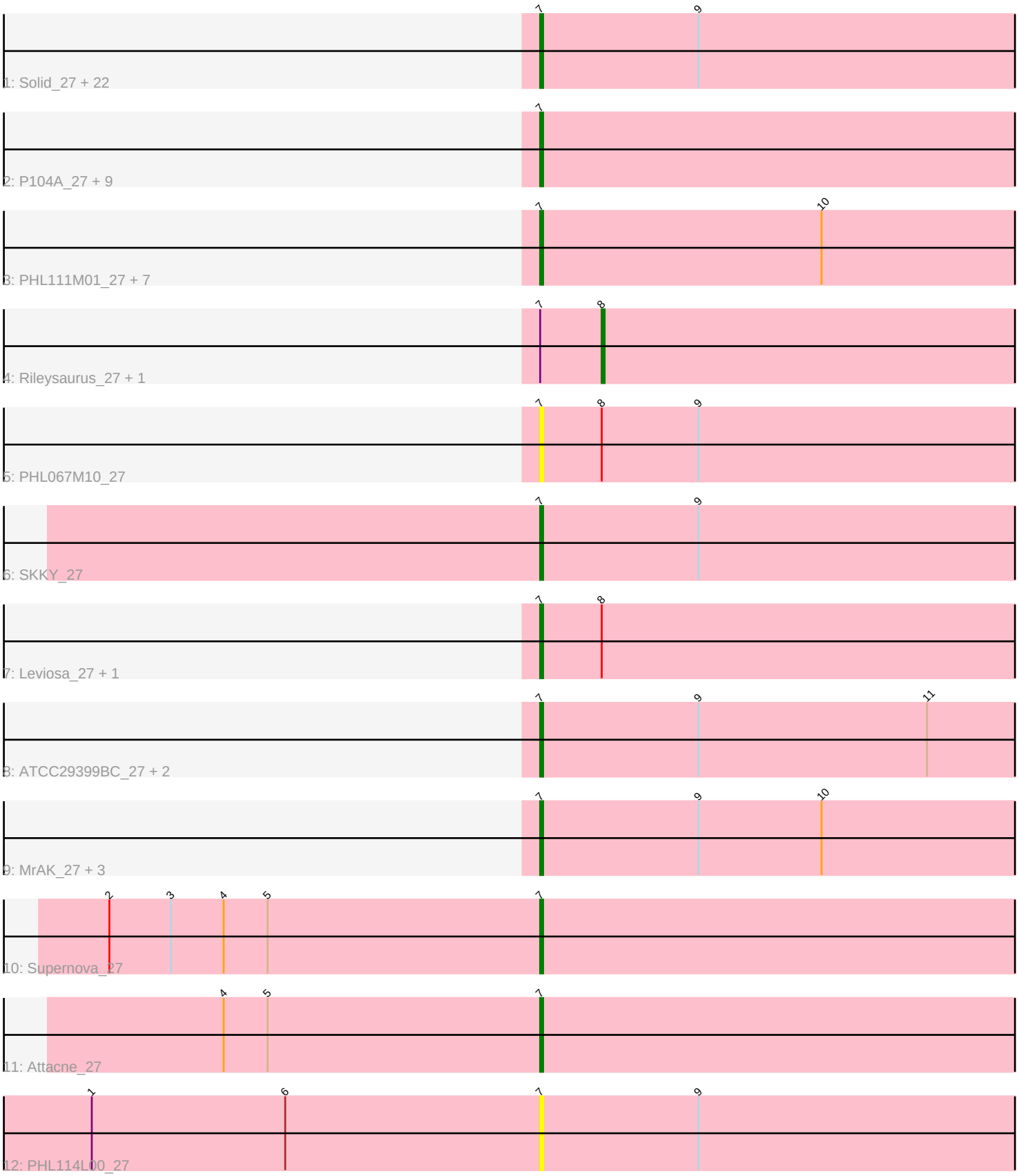
Pham 1581


1: Solid_27 + 22
2: P104A_27 + 9
3: PHL111M01_27 + 7
4: Rileysaurus_27 + 1
5: PHL067M10_27
6: SKKY_27
7: Leviosa_27 + 1
8: ATCC29399BC_27 + 2
9: MrAK_27 + 3
10: Supernova_27
11: Attacne_27
12: PHL114L00_27

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 1581 Report

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

Pham number 1581 has 57 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Solid_27, QueenBey_27, Enoki_27, P100A_27, Pirate_27, LilBandit_27, Aquarius_27, BruceLethal_27, Cota_27, Enochoraptor_28, Keiki_27, DrParker_27, Kubed_27, P108C_27, PHL071N05_27, P107A_27, Lauchelly_27, P100D_27, P101A_27, PHL010M04_27, P9.1_27, PA6_28, Procrass1_27
• Track 2 : P104A_27, P106C_28, P104B_27, P106A_27, P106M_27, P106L_27, Wizzo_27, PHL060L00_27, PHL037M02_27, P106I_27
• Track 3 : PHL111M01_27, Ouroboros_27, Moyashi_27, PAS50_28, PAD20_28, P1.1_27, P105_27, PHL113M01_27
• Track 4 : Rileysaurus_27, P14.4_27
• Track 5 : PHL067M10_27
• Track 6 : SKKY_27
• Track 7 : Leviosa_27, P100.1_27
• Track 8 : ATCC29399BC_27, ATCC29399BT_27, P107C_27
• Track 9 : MrAK_27, MEAK_27, PHL112N00_27, Stormborn_27
• Track 10 : Supernova_27
• Track 11 : Attacne_27
• Track 12 : PHL114L00_27

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

The start number called the most often in the published annotations is 7, it was called in 42 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ATCC29399BC_27, ATCC29399BT_27, Aquarius_27, Attacne_27, BruceLethal_27, Cota_27, DrParker_27, Enochoraptor_28, Enoki_27, Keiki_27, Kubed_27, Lauchelly_27, Leviosa_27, LilBandit_27, MEAK_27, Moyashi_27, MrAK_27, Ouroboros_27, P1.1_27, P100.1_27, P100A_27, P100D_27, P101A_27, P104A_27, P104B_27, P105_27, P106A_27, P106C_28, P106I_27, P106L_27, P106M_27, P107A_27, P107C_27, P108C_27, P9.1_27, PA6_28, PAD20_28, PAS50_28, PHL010M04_27, PHL037M02_27, PHL060L00_27, PHL067M10_27, PHL071N05_27, PHL111M01_27, PHL112N00_27, PHL113M01_27, PHL114L00_27, Pirate_27, Procrass1_27, QueenBey_27, SKKY_27, Solid_27, Stormborn_27, Supernova_27, Wizzo_27,

Genes that have the "Most Annotated" start but do not call it:
• P14.4_27, Rileysaurus_27,

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

Summary by start number:

Start 7:
• Found in 57 of 57 (100.0%) of genes in pham
• Manual Annotations of this start: 42 of 43
• Called 96.5% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_27 (BU), ATCC29399BT_27 (BU), Aquarius_27 (BU), Attacne_27 (BU), BruceLethal_27 (BU), Cota_27 (BU), DrParker_27 (BU), Enochoraptor_28 (BU), Enoki_27 (BU), Keiki_27 (BU), Kubed_27 (BU), Lauchelly_27 (BU), Leviosa_27 (BU), LilBandit_27 (BU), MEAK_27 (BU), Moyashi_27 (BU), MrAK_27 (BU), Ouroboros_27 (BU), P1.1_27 (BU), P100.1_27 (BU), P100A_27 (BU), P100D_27 (BU), P101A_27 (BU), P104A_27 (BU), P104B_27 (BU), P105_27 (BU), P106A_27 (BU), P106C_28 (BU), P106I_27 (BU), P106L_27 (BU), P106M_27 (BU), P107A_27 (BU), P107C_27 (BU), P108C_27 (BU), P9.1_27 (BU), PA6_28 (BU), PAD20_28 (BU), PAS50_28 (BU), PHL010M04_27 (BU), PHL037M02_27 (BU), PHL060L00_27 (BU), PHL067M10_27 (BU), PHL071N05_27 (BU), PHL111M01_27 (BU), PHL112N00_27 (BU), PHL113M01_27 (BU), PHL114L00_27 (BU), Pirate_27 (BU), Procrass1_27 (BU), QueenBey_27 (BU), SKKY_27 (BU), Solid_27 (BU), Stormborn_27 (BU), Supernova_27 (BU), Wizzo_27 (BU),

Start 8:
• Found in 5 of 57 (8.8%) of genes in pham
• Manual Annotations of this start: 1 of 43
• Called 40.0% of time when present
• Phage (with cluster) where this start called: P14.4_27 (BU), Rileysaurus_27 (BU),

Summary by clusters:

There is one cluster represented in this pham: BU

Info for manual annotations of cluster BU:
•Start number 7 was manually annotated 42 times for cluster BU.
•Start number 8 was manually annotated 1 time for cluster BU.

Gene Information:

Gene: ATCC29399BC_27 Start: 19505, Stop: 19308, Start Num: 7
Candidate Starts for ATCC29399BC_27:
(Start: 7 @19505 has 42 MA's), (9, 19451), (11, 19373),

Gene: ATCC29399BT_27 Start: 19505, Stop: 19308, Start Num: 7
Candidate Starts for ATCC29399BT_27:
(Start: 7 @19505 has 42 MA's), (9, 19451), (11, 19373),

Gene: Aquarius_27 Start: 19266, Stop: 19069, Start Num: 7
Candidate Starts for Aquarius_27:
(Start: 7 @19266 has 42 MA's), (9, 19212),

Gene: Attacne_27 Start: 19288, Stop: 19088, Start Num: 7
Candidate Starts for Attacne_27:
(4, 19396), (5, 19381), (Start: 7 @19288 has 42 MA's),

Gene: BruceLethal_27 Start: 19504, Stop: 19310, Start Num: 7
Candidate Starts for BruceLethal_27:
(Start: 7 @19504 has 42 MA's), (9, 19450),

Gene: Cota_27 Start: 19548, Stop: 19354, Start Num: 7
Candidate Starts for Cota_27:
(Start: 7 @19548 has 42 MA's), (9, 19494),

Gene: DrParker_27 Start: 19601, Stop: 19407, Start Num: 7
Candidate Starts for DrParker_27:
(Start: 7 @19601 has 42 MA's), (9, 19547),

Gene: Enochoraptor_28 Start: 19527, Stop: 19333, Start Num: 7
Candidate Starts for Enochoraptor_28:
(Start: 7 @19527 has 42 MA's), (9, 19473),

Gene: Enoki_27 Start: 19538, Stop: 19344, Start Num: 7
Candidate Starts for Enoki_27:
(Start: 7 @19538 has 42 MA's), (9, 19484),

Gene: Keiki_27 Start: 19456, Stop: 19262, Start Num: 7
Candidate Starts for Keiki_27:
(Start: 7 @19456 has 42 MA's), (9, 19402),

Gene: Kubed_27 Start: 19499, Stop: 19308, Start Num: 7
Candidate Starts for Kubed_27:
(Start: 7 @19499 has 42 MA's), (9, 19445),

Gene: Lauchelly_27 Start: 19557, Stop: 19369, Start Num: 7
Candidate Starts for Lauchelly_27:
(Start: 7 @19557 has 42 MA's), (9, 19503),

Gene: Leviosa_27 Start: 19548, Stop: 19360, Start Num: 7
Candidate Starts for Leviosa_27:
(Start: 7 @19548 has 42 MA's), (Start: 8 @19527 has 1 MA's),

Gene: LilBandit_27 Start: 19342, Stop: 19148, Start Num: 7
Candidate Starts for LilBandit_27:
(Start: 7 @19342 has 42 MA's), (9, 19288),

Gene: MEAK_27 Start: 19508, Stop: 19314, Start Num: 7
Candidate Starts for MEAK_27:
(Start: 7 @19508 has 42 MA's), (9, 19454), (10, 19412),

Gene: Moyashi_27 Start: 19615, Stop: 19418, Start Num: 7
Candidate Starts for Moyashi_27:
(Start: 7 @19615 has 42 MA's), (10, 19519),

Gene: MrAK_27 Start: 19618, Stop: 19427, Start Num: 7
Candidate Starts for MrAK_27:
(Start: 7 @19618 has 42 MA's), (9, 19564), (10, 19522),

Gene: Ouroboros_27 Start: 19525, Stop: 19331, Start Num: 7
Candidate Starts for Ouroboros_27:
(Start: 7 @19525 has 42 MA's), (10, 19429),

Gene: P1.1_27 Start: 19548, Stop: 19351, Start Num: 7
Candidate Starts for P1.1_27:
(Start: 7 @19548 has 42 MA's), (10, 19452),

Gene: P100.1_27 Start: 19589, Stop: 19392, Start Num: 7
Candidate Starts for P100.1_27:
(Start: 7 @19589 has 42 MA's), (Start: 8 @19568 has 1 MA's),

Gene: P100A_27 Start: 19540, Stop: 19355, Start Num: 7
Candidate Starts for P100A_27:
(Start: 7 @19540 has 42 MA's), (9, 19486),

Gene: P100D_27 Start: 19521, Stop: 19324, Start Num: 7
Candidate Starts for P100D_27:
(Start: 7 @19521 has 42 MA's), (9, 19467),

Gene: P101A_27 Start: 19562, Stop: 19368, Start Num: 7
Candidate Starts for P101A_27:
(Start: 7 @19562 has 42 MA's), (9, 19508),

Gene: P104A_27 Start: 19319, Stop: 19125, Start Num: 7
Candidate Starts for P104A_27:
(Start: 7 @19319 has 42 MA's),

Gene: P104B_27 Start: 19518, Stop: 19321, Start Num: 7
Candidate Starts for P104B_27:
(Start: 7 @19518 has 42 MA's),

Gene: P105_27 Start: 19481, Stop: 19287, Start Num: 7
Candidate Starts for P105_27:
(Start: 7 @19481 has 42 MA's), (10, 19385),

Gene: P106A_27 Start: 19611, Stop: 19417, Start Num: 7
Candidate Starts for P106A_27:
(Start: 7 @19611 has 42 MA's),

Gene: P106C_28 Start: 19549, Stop: 19355, Start Num: 7
Candidate Starts for P106C_28:
(Start: 7 @19549 has 42 MA's),

Gene: P106I_27 Start: 19378, Stop: 19184, Start Num: 7

Candidate Starts for P106I_27:
(Start: 7 @19378 has 42 MA's),

Gene: P106L_27 Start: 19549, Stop: 19355, Start Num: 7
Candidate Starts for P106L_27:
(Start: 7 @19549 has 42 MA's),

Gene: P106M_27 Start: 19549, Stop: 19355, Start Num: 7
Candidate Starts for P106M_27:
(Start: 7 @19549 has 42 MA's),

Gene: P107A_27 Start: 19568, Stop: 19374, Start Num: 7
Candidate Starts for P107A_27:
(Start: 7 @19568 has 42 MA's), (9, 19514),

Gene: P107C_27 Start: 19505, Stop: 19308, Start Num: 7
Candidate Starts for P107C_27:
(Start: 7 @19505 has 42 MA's), (9, 19451), (11, 19373),

Gene: P108C_27 Start: 19519, Stop: 19328, Start Num: 7
Candidate Starts for P108C_27:
(Start: 7 @19519 has 42 MA's), (9, 19465),

Gene: P14.4_27 Start: 19491, Stop: 19324, Start Num: 8
Candidate Starts for P14.4_27:
(Start: 7 @19512 has 42 MA's), (Start: 8 @19491 has 1 MA's),

Gene: P9.1_27 Start: 19551, Stop: 19357, Start Num: 7
Candidate Starts for P9.1_27:
(Start: 7 @19551 has 42 MA's), (9, 19497),

Gene: PA6_28 Start: 19506, Stop: 19312, Start Num: 7
Candidate Starts for PA6_28:
(Start: 7 @19506 has 42 MA's), (9, 19452),

Gene: PAD20_28 Start: 19289, Stop: 19095, Start Num: 7
Candidate Starts for PAD20_28:
(Start: 7 @19289 has 42 MA's), (10, 19193),

Gene: PAS50_28 Start: 19457, Stop: 19263, Start Num: 7
Candidate Starts for PAS50_28:
(Start: 7 @19457 has 42 MA's), (10, 19361),

Gene: PHL010M04_27 Start: 19529, Stop: 19338, Start Num: 7
Candidate Starts for PHL010M04_27:
(Start: 7 @19529 has 42 MA's), (9, 19475),

Gene: PHL037M02_27 Start: 19510, Stop: 19313, Start Num: 7
Candidate Starts for PHL037M02_27:
(Start: 7 @19510 has 42 MA's),

Gene: PHL060L00_27 Start: 19359, Stop: 19162, Start Num: 7
Candidate Starts for PHL060L00_27:

(Start: 7 @19359 has 42 MA's),

Gene: PHL067M10_27 Start: 19480, Stop: 19286, Start Num: 7
Candidate Starts for PHL067M10_27:
(Start: 7 @19480 has 42 MA's), (Start: 8 @19459 has 1 MA's), (9, 19426),

Gene: PHL071N05_27 Start: 19542, Stop: 19348, Start Num: 7
Candidate Starts for PHL071N05_27:
(Start: 7 @19542 has 42 MA's), (9, 19488),

Gene: PHL111M01_27 Start: 19533, Stop: 19336, Start Num: 7
Candidate Starts for PHL111M01_27:
(Start: 7 @19533 has 42 MA's), (10, 19437),

Gene: PHL112N00_27 Start: 19555, Stop: 19364, Start Num: 7
Candidate Starts for PHL112N00_27:
(Start: 7 @19555 has 42 MA's), (9, 19501), (10, 19459),

Gene: PHL113M01_27 Start: 19579, Stop: 19382, Start Num: 7
Candidate Starts for PHL113M01_27:
(Start: 7 @19579 has 42 MA's), (10, 19483),

Gene: PHL114L00_27 Start: 19502, Stop: 19305, Start Num: 7
Candidate Starts for PHL114L00_27:
(1, 19655), (6, 19589), (Start: 7 @19502 has 42 MA's), (9, 19448),

Gene: Pirate_27 Start: 19441, Stop: 19247, Start Num: 7
Candidate Starts for Pirate_27:
(Start: 7 @19441 has 42 MA's), (9, 19387),

Gene: Procrass1_27 Start: 19508, Stop: 19314, Start Num: 7
Candidate Starts for Procrass1_27:
(Start: 7 @19508 has 42 MA's), (9, 19454),

Gene: QueenBey_27 Start: 19492, Stop: 19304, Start Num: 7
Candidate Starts for QueenBey_27:
(Start: 7 @19492 has 42 MA's), (9, 19438),

Gene: Rileysaurus_27 Start: 19518, Stop: 19345, Start Num: 8
Candidate Starts for Rileysaurus_27:
(Start: 7 @19539 has 42 MA's), (Start: 8 @19518 has 1 MA's),

Gene: SKKY_27 Start: 19593, Stop: 19393, Start Num: 7
Candidate Starts for SKKY_27:
(Start: 7 @19593 has 42 MA's), (9, 19539),

Gene: Solid_27 Start: 19521, Stop: 19324, Start Num: 7
Candidate Starts for Solid_27:
(Start: 7 @19521 has 42 MA's), (9, 19467),

Gene: Stormborn_27 Start: 19425, Stop: 19228, Start Num: 7
Candidate Starts for Stormborn_27:
(Start: 7 @19425 has 42 MA's), (9, 19371), (10, 19329),

Gene: Supernova_27 Start: 19591, Stop: 19394, Start Num: 7
Candidate Starts for Supernova_27:
(2, 19738), (3, 19717), (4, 19699), (5, 19684), (Start: 7 @19591 has 42 MA's),

Gene: Wizzo_27 Start: 19311, Stop: 19117, Start Num: 7
Candidate Starts for Wizzo_27:
(Start: 7 @19311 has 42 MA's),