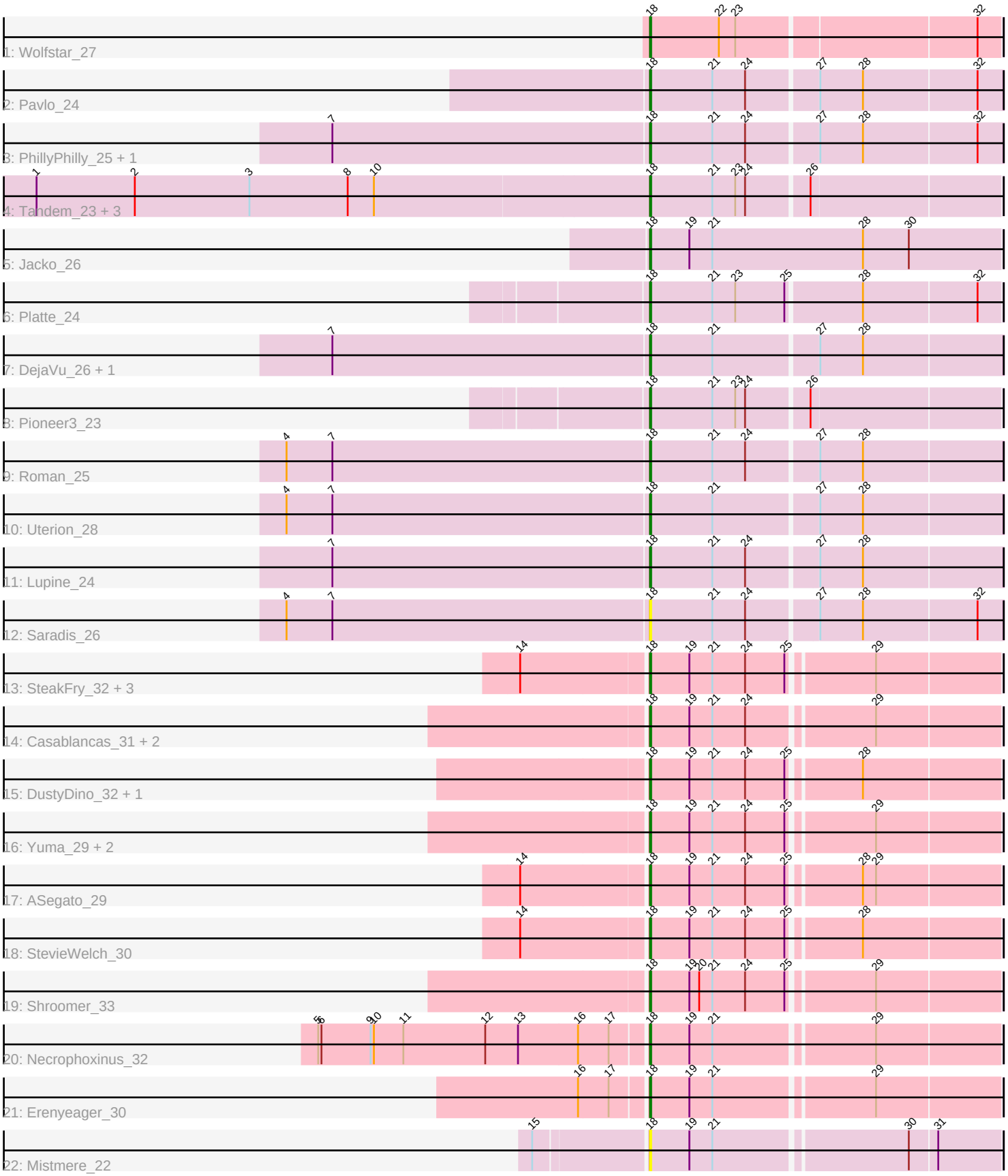
Pham 336957


1: Wolfstar_27
2: Pavlo_24
3: PhillyPhilly_25 + 1
4: Tandem_23 + 3
5: Jacko_26
6: Platte_24
7: DejaVu_26 + 1
8: Pioneer3_23
9: Roman_25
10: Uterion_28
11: Lupine_24
12: Saradis_26
13: SteakFry_32 + 3
14: Casablancas_31 + 2
15: DustyDino_32 + 1
16: Yuma_29 + 2
17: ASegato_29
18: StevieWelch_30
19: Shroomer_33
20: Necrophoxinus_32
21: Erenyeager_30
22: Mistmere_22

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 336957 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 336957 has 35 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Wolfstar_27
- Track 2 : Pavlo_24
- Track 3 : PhillyPhilly_25, Solimine_26
- Track 4 : Tandem_23, Alleb_24, Hortus1_23, OlinDD_23
- Track 5 : Jacko_26
- Track 6 : Platte_24
- Track 7 : DejaVu_26, Hubbs_25
- Track 8 : Pioneer3_23
- Track 9 : Roman_25
- Track 10 : Uterion_28
- Track 11 : Lupine_24
- Track 12 : Saradis_26
- Track 13 : SteakFry_32, Fork_26, HollowPurple_31, Issa7_29
- Track 14 : Casablancas_31, Deschain_30, Lyell_30
- Track 15 : DustyDino_32, RunningBrook_30
- Track 16 : Yuma_29, Musetta_30, Welcome_31
- Track 17 : ASegato_29
- Track 18 : StevieWelch_30
- Track 19 : Shroomer_33
- Track 20 : Necrophoxinus_32
- Track 21 : Erenyeager_30
- Track 22 : Mistmere_22

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

The start number called the most often in the published annotations is 18, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ASegato_29, Alleb_24, Casablancas_31, DejaVu_26, Deschain_30, DustyDino_32, Erenyeager_30, Fork_26, HollowPurple_31, Hortus1_23, Hubbs_25, Issa7_29, Jacko_26, Lupine_24, Lyell_30, Mistmere_22, Musetta_30, Necrophoxinus_32, OlinDD_23, Pavlo_24, PhillyPhilly_25, Pioneer3_23, Platte_24, Roman_25, RunningBrook_30, Saradis_26, Shroomer_33, Solimine_26, SteakFry_32, StevieWelch_30, Tandem_23, Uterion_28, Welcome_31, Wolfstar_27, Yuma_29,

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

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

Summary by start number:

Start 18:
• Found in 35 of 35 (100.0%) of genes in pham
• Manual Annotations of this start: 30 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_29 (ED2), Alleb_24 (ED1), Casablancas_31 (ED2), DejaVu_26 (ED1), Deschain_30 (ED2), DustyDino_32 (ED2), Erenyeager_30 (ED2), Fork_26 (ED2), HollowPurple_31 (ED2), Hortus1_23 (ED1), Hubbs_25 (ED1), Issa7_29 (ED2), Jacko_26 (ED1), Lupine_24 (ED1), Lyell_30 (ED2), Mistmere_22 (ED3), Musetta_30 (ED2), Necrophoxinus_32 (ED2), OlinDD_23 (ED1), Pavlo_24 (ED1), PhillyPhilly_25 (ED1), Pioneer3_23 (ED1), Platte_24 (ED1), Roman_25 (ED1), RunningBrook_30 (ED2), Saradis_26 (ED1), Shroomer_33 (ED2), Solimine_26 (ED1), SteakFry_32 (ED2), StevieWelch_30 (ED2), Tandem_23 (ED1), Uterion_28 (ED1), Welcome_31 (ED2), Wolfstar_27 (ED), Yuma_29 (ED2),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, ED3,

Info for manual annotations of cluster ED:
•Start number 18 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:
•Start number 18 was manually annotated 14 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 18 was manually annotated 15 times for cluster ED2.

Gene Information:

Gene: ASegato_29 Start: 8490, Stop: 8795, Start Num: 18
Candidate Starts for ASegato_29:
(14, 8379), (Start: 18 @8490 has 30 MA's), (19, 8526), (21, 8547), (24, 8577), (25, 8613), (28, 8673), (29, 8685),

Gene: Alleb_24 Start: 7615, Stop: 7923, Start Num: 18

Candidate Starts for Alleb_24:
(1, 7057), (2, 7147), (3, 7252), (8, 7342), (10, 7366), (Start: 18 @7615 has 30 MA's), (21, 7672), (23, 7693), (24, 7702), (26, 7756),

Gene: Casablancas_31 Start: 8603, Stop: 8908, Start Num: 18
Candidate Starts for Casablancas_31:
(Start: 18 @8603 has 30 MA's), (19, 8639), (21, 8660), (24, 8690), (29, 8798),

Gene: DejaVu_26 Start: 7843, Stop: 8154, Start Num: 18
Candidate Starts for DejaVu_26:
(7, 7555), (Start: 18 @7843 has 30 MA's), (21, 7900), (27, 7990), (28, 8029),

Gene: Deschain_30 Start: 9267, Stop: 9572, Start Num: 18
Candidate Starts for Deschain_30:
(Start: 18 @9267 has 30 MA's), (19, 9303), (21, 9324), (24, 9354), (29, 9462),

Gene: DustyDino_32 Start: 9201, Stop: 9506, Start Num: 18
Candidate Starts for DustyDino_32:
(Start: 18 @9201 has 30 MA's), (19, 9237), (21, 9258), (24, 9288), (25, 9324), (28, 9384),

Gene: Erenyeager_30 Start: 8861, Stop: 9166, Start Num: 18
Candidate Starts for Erenyeager_30:
(16, 8804), (17, 8831), (Start: 18 @8861 has 30 MA's), (19, 8897), (21, 8918), (29, 9056),

Gene: Fork_26 Start: 8147, Stop: 8452, Start Num: 18
Candidate Starts for Fork_26:
(14, 8036), (Start: 18 @8147 has 30 MA's), (19, 8183), (21, 8204), (24, 8234), (25, 8270), (29, 8342),

Gene: HollowPurple_31 Start: 8717, Stop: 9022, Start Num: 18
Candidate Starts for HollowPurple_31:
(14, 8606), (Start: 18 @8717 has 30 MA's), (19, 8753), (21, 8774), (24, 8804), (25, 8840), (29, 8912),

Gene: Hortus1_23 Start: 7614, Stop: 7922, Start Num: 18
Candidate Starts for Hortus1_23:
(1, 7056), (2, 7146), (3, 7251), (8, 7341), (10, 7365), (Start: 18 @7614 has 30 MA's), (21, 7671), (23, 7692), (24, 7701), (26, 7755),

Gene: Hubbs_25 Start: 8055, Stop: 8366, Start Num: 18
Candidate Starts for Hubbs_25:
(7, 7767), (Start: 18 @8055 has 30 MA's), (21, 8112), (27, 8202), (28, 8241),

Gene: Issa7_29 Start: 8125, Stop: 8430, Start Num: 18
Candidate Starts for Issa7_29:
(14, 8014), (Start: 18 @8125 has 30 MA's), (19, 8161), (21, 8182), (24, 8212), (25, 8248), (29, 8320),

Gene: Jacko_26 Start: 8159, Stop: 8479, Start Num: 18
Candidate Starts for Jacko_26:
(Start: 18 @8159 has 30 MA's), (19, 8195), (21, 8216), (28, 8354), (30, 8396),

Gene: Lupine_24 Start: 7733, Stop: 8044, Start Num: 18
Candidate Starts for Lupine_24:
(7, 7445), (Start: 18 @7733 has 30 MA's), (21, 7790), (24, 7820), (27, 7880), (28, 7919),

Gene: Lyell_30 Start: 8779, Stop: 9084, Start Num: 18
Candidate Starts for Lyell_30:
(Start: 18 @8779 has 30 MA's), (19, 8815), (21, 8836), (24, 8866), (29, 8974),

Gene: Mistmere_22 Start: 6369, Stop: 6674, Start Num: 18
Candidate Starts for Mistmere_22:
(15, 6273), (Start: 18 @6369 has 30 MA's), (19, 6405), (21, 6426), (30, 6594), (31, 6618),

Gene: Musetta_30 Start: 8858, Stop: 9163, Start Num: 18
Candidate Starts for Musetta_30:
(Start: 18 @8858 has 30 MA's), (19, 8894), (21, 8915), (24, 8945), (25, 8981), (29, 9053),

Gene: Necrophoxinus_32 Start: 9475, Stop: 9780, Start Num: 18
Candidate Starts for Necrophoxinus_32:
(5, 9181), (6, 9184), (9, 9229), (10, 9232), (11, 9259), (12, 9334), (13, 9364), (16, 9418), (17, 9445),
(Start: 18 @9475 has 30 MA's), (19, 9511), (21, 9532), (29, 9670),

Gene: OlinDD_23 Start: 7613, Stop: 7921, Start Num: 18
Candidate Starts for OlinDD_23:
(1, 7055), (2, 7145), (3, 7250), (8, 7340), (10, 7364), (Start: 18 @7613 has 30 MA's), (21, 7670), (23,
7691), (24, 7700), (26, 7754),

Gene: Pavlo_24 Start: 8008, Stop: 8319, Start Num: 18
Candidate Starts for Pavlo_24:
(Start: 18 @8008 has 30 MA's), (21, 8065), (24, 8095), (27, 8155), (28, 8194), (32, 8296),

Gene: PhillyPhilly_25 Start: 7913, Stop: 8224, Start Num: 18
Candidate Starts for PhillyPhilly_25:
(7, 7625), (Start: 18 @7913 has 30 MA's), (21, 7970), (24, 8000), (27, 8060), (28, 8099), (32, 8201),

Gene: Pioneer3_23 Start: 7612, Stop: 7920, Start Num: 18
Candidate Starts for Pioneer3_23:
(Start: 18 @7612 has 30 MA's), (21, 7669), (23, 7690), (24, 7699), (26, 7753),

Gene: Platte_24 Start: 7745, Stop: 8056, Start Num: 18
Candidate Starts for Platte_24:
(Start: 18 @7745 has 30 MA's), (21, 7802), (23, 7823), (25, 7868), (28, 7934), (32, 8036),

Gene: Roman_25 Start: 7911, Stop: 8222, Start Num: 18
Candidate Starts for Roman_25:
(4, 7581), (7, 7623), (Start: 18 @7911 has 30 MA's), (21, 7968), (24, 7998), (27, 8058), (28, 8097),

Gene: RunningBrook_30 Start: 9201, Stop: 9506, Start Num: 18
Candidate Starts for RunningBrook_30:
(Start: 18 @9201 has 30 MA's), (19, 9237), (21, 9258), (24, 9288), (25, 9324), (28, 9384),

Gene: Saradis_26 Start: 7971, Stop: 8282, Start Num: 18
Candidate Starts for Saradis_26:
(4, 7641), (7, 7683), (Start: 18 @7971 has 30 MA's), (21, 8028), (24, 8058), (27, 8118), (28, 8157), (32,
8259),

Gene: Shroomer_33 Start: 8696, Stop: 9001, Start Num: 18
Candidate Starts for Shroomer_33:

(Start: 18 @8696 has 30 MA's), (19, 8732), (20, 8741), (21, 8753), (24, 8783), (25, 8819), (29, 8891),

Gene: Solimine_26 Start: 8386, Stop: 8697, Start Num: 18
Candidate Starts for Solimine_26:
(7, 8098), (Start: 18 @8386 has 30 MA's), (21, 8443), (24, 8473), (27, 8533), (28, 8572), (32, 8674),

Gene: SteakFry_32 Start: 8717, Stop: 9022, Start Num: 18
Candidate Starts for SteakFry_32:
(14, 8606), (Start: 18 @8717 has 30 MA's), (19, 8753), (21, 8774), (24, 8804), (25, 8840), (29, 8912),

Gene: StevieWelch_30 Start: 8837, Stop: 9142, Start Num: 18
Candidate Starts for StevieWelch_30:
(14, 8726), (Start: 18 @8837 has 30 MA's), (19, 8873), (21, 8894), (24, 8924), (25, 8960), (28, 9020),

Gene: Tandem_23 Start: 7551, Stop: 7859, Start Num: 18
Candidate Starts for Tandem_23:
(1, 6993), (2, 7083), (3, 7188), (8, 7278), (10, 7302), (Start: 18 @7551 has 30 MA's), (21, 7608), (23, 7629), (24, 7638), (26, 7692),

Gene: Uterion_28 Start: 8478, Stop: 8789, Start Num: 18
Candidate Starts for Uterion_28:
(4, 8148), (7, 8190), (Start: 18 @8478 has 30 MA's), (21, 8535), (27, 8625), (28, 8664),

Gene: Welcome_31 Start: 8854, Stop: 9159, Start Num: 18
Candidate Starts for Welcome_31:
(Start: 18 @8854 has 30 MA's), (19, 8890), (21, 8911), (24, 8941), (25, 8977), (29, 9049),

Gene: Wolfstar_27 Start: 8751, Stop: 9059, Start Num: 18
Candidate Starts for Wolfstar_27:
(Start: 18 @8751 has 30 MA's), (22, 8814), (23, 8829), (32, 9039),

Gene: Yuma_29 Start: 8757, Stop: 9062, Start Num: 18
Candidate Starts for Yuma_29:
(Start: 18 @8757 has 30 MA's), (19, 8793), (21, 8814), (24, 8844), (25, 8880), (29, 8952),