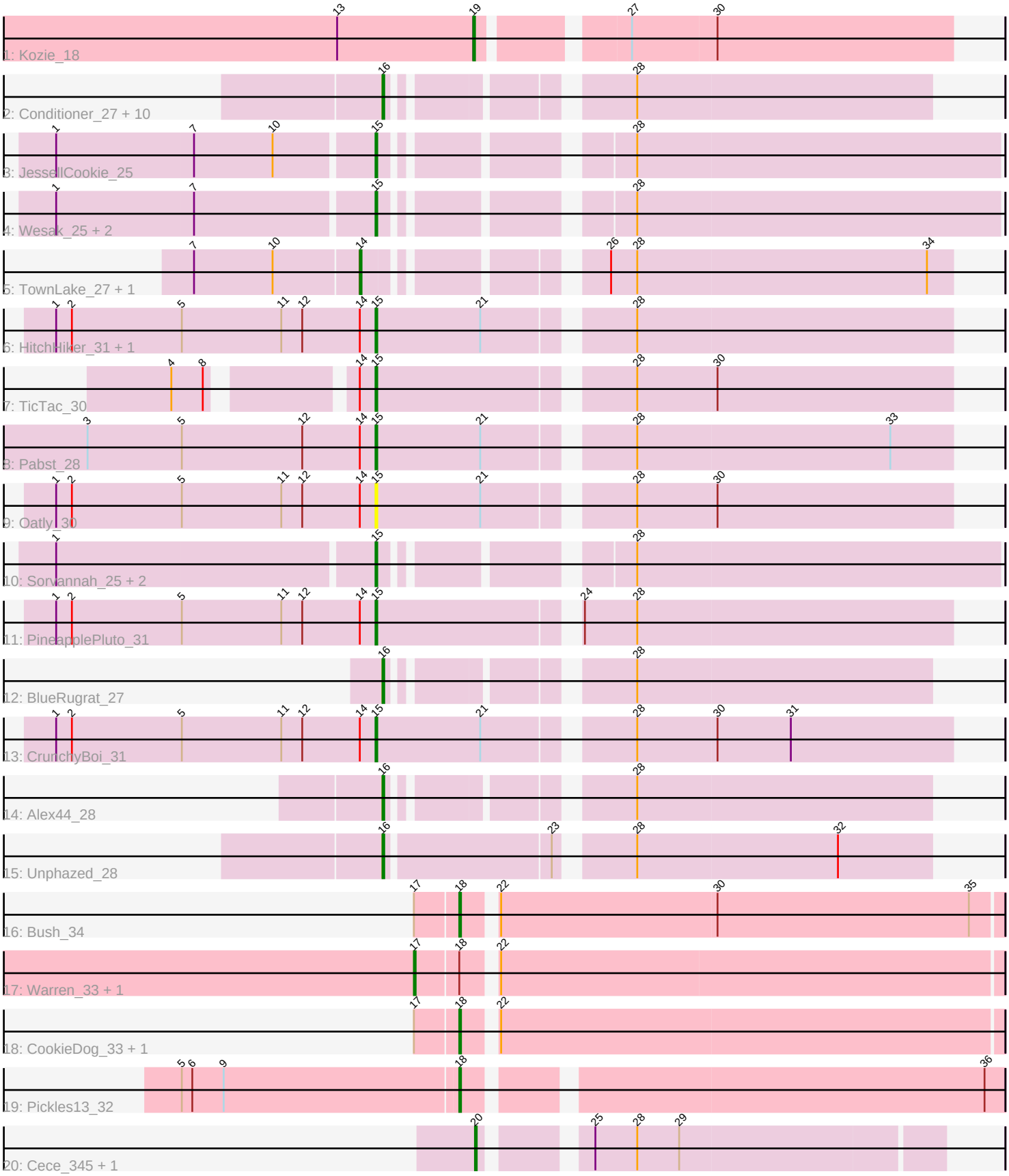
Pham 308896


1: Kozie_18
2: Conditioner_27 + 10
3: JessellCookie_25
4: Wesak_25 + 2
5: TownLake_27 + 1
6: HitchHiker_31 + 1
7: TicTac_30
8: Pabst_28
9: Oatly_30
10: Sorvannah_25 + 2
11: PineapplePluto_31
12: BlueRugrat_27
13: CrunchyBoi_31
14: Alex44_28
15: Unphazed_28
16: Bush_34
17: Warren_33 + 1
18: CookieDog_33 + 1
19: Pickles13_32
20: Cece_345 + 1

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 308896 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308896 has 39 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Kozie_18
• Track 2 : Conditioner_27, Stormbreaker_27, LilyLou_28, Dashyla_27, ArMaWen_27, Phogo_28, DumpQuist_27, Corn21_27, Birdfeeder_26, LesNorah_28, SwissCheezer_27
• Track 3 : JessellCookie_25
• Track 4 : Wesak_25, MiamiPanther_25, TinyTimothy_25
• Track 5 : TownLake_27, Xitlalli_27
• Track 6 : HitchHiker_31, Biozilla_30
• Track 7 : TicTac_30
• Track 8 : Pabst_28
• Track 9 : Oatly_30
• Track 10 : Sorvannah_25, YellowPanda_26, Salvatore2000_25
• Track 11 : PineapplePluto_31
• Track 12 : BlueRugrat_27
• Track 13 : CrunchyBoi_31
• Track 14 : Alex44_28
• Track 15 : Unphazed_28
• Track 16 : Bush_34
• Track 17 : Warren_33, Dropshot_33
• Track 18 : CookieDog_33, MenE_34
• Track 19 : Pickles13_32
• Track 20 : Cece_345, Cece_43

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

The start number called the most often in the published annotations is 16, it was called in 13 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alex44_28, ArMaWen_27, Birdfeeder_26, BlueRugrat_27, Conditioner_27, Corn21_27, Dashyla_27, DumpQuist_27, LesNorah_28, LilyLou_28, Phogo_28, Stormbreaker_27, SwissCheezer_27, Unphazed_28,

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

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Genes that do not have the "Most Annotated" start:
• Biozilla_30, Bush_34, Cece_345, Cece_43, CookieDog_33, CrunchyBoi_31, Dropshot_33, HitchHiker_31, JessellCookie_25, Kozie_18, MenE_34, MiamiPanther_25, Oatly_30, Pabst_28, Pickles13_32, PineapplePluto_31, Salvatore2000_25, Sorvannah_25, TicTac_30, TinyTimothy_25, TownLake_27, Warren_33, Wesak_25, Xitlalli_27, YellowPanda_26,

Summary by start number:

Start 14:
• Found in 9 of 39 (23.1%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 22.2% of time when present
• Phage (with cluster) where this start called: TownLake_27 (EK1), Xitlalli_27 (EK1),

Start 15:
• Found in 14 of 39 (35.9%) of genes in pham
• Manual Annotations of this start: 10 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Biozilla_30 (EK1), CrunchyBoi_31 (EK1), HitchHiker_31 (EK1), JessellCookie_25 (EK1), MiamiPanther_25 (EK1), Oatly_30 (EK1), Pabst_28 (EK1), PineapplePluto_31 (EK1), Salvatore2000_25 (EK1), Sorvannah_25 (EK1), TicTac_30 (EK1), TinyTimothy_25 (EK1), Wesak_25 (EK1), YellowPanda_26 (EK1),

Start 16:
• Found in 14 of 39 (35.9%) of genes in pham
• Manual Annotations of this start: 13 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alex44_28 (EK1), ArMaWen_27 (EK1), Birdfeeder_26 (EK1), BlueRugrat_27 (EK1), Conditioner_27 (EK1), Corn21_27 (EK1), Dashyla_27 (EK1), DumpQuist_27 (EK1), LesNorah_28 (EK1), LilyLou_28 (EK1), Phogo_28 (EK1), Stormbreaker_27 (EK1), SwissCheezer_27 (EK1), Unphazed_28 (EK1),

Start 17:
• Found in 5 of 39 (12.8%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Dropshot_33 (GA), Warren_33 (GA),

Start 18:
• Found in 6 of 39 (15.4%) of genes in pham
• Manual Annotations of this start: 4 of 34
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Bush_34 (GA), CookieDog_33 (GA), MenE_34 (GA), Pickles13_32 (GA),

Start 19:
• Found in 1 of 39 (2.6%) of genes in pham
• Manual Annotations of this start: 1 of 34

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kozie_18 (EI),

Start 20:
• Found in 2 of 39 (5.1%) of genes in pham
• Manual Annotations of this start: 2 of 34
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cece_345 (GD3), Cece_43 (GD3),

Summary by clusters:

There are 4 clusters represented in this pham: GD3, EI, GA, EK1,

Info for manual annotations of cluster EI:
•Start number 19 was manually annotated 1 time for cluster EI.

Info for manual annotations of cluster EK1:
•Start number 14 was manually annotated 2 times for cluster EK1.
•Start number 15 was manually annotated 10 times for cluster EK1.
•Start number 16 was manually annotated 13 times for cluster EK1.

Info for manual annotations of cluster GA:
•Start number 17 was manually annotated 2 times for cluster GA.
•Start number 18 was manually annotated 4 times for cluster GA.

Info for manual annotations of cluster GD3:
•Start number 20 was manually annotated 2 times for cluster GD3.

Gene Information:

Gene: Alex44_28 Start: 15638, Stop: 15357, Start Num: 16
Candidate Starts for Alex44_28:
(Start: 16 @15638 has 13 MA's), (28, 15524),

Gene: ArMaWen_27 Start: 15222, Stop: 14941, Start Num: 16
Candidate Starts for ArMaWen_27:
(Start: 16 @15222 has 13 MA's), (28, 15108),

Gene: Biozilla_30 Start: 16097, Stop: 15783, Start Num: 15
Candidate Starts for Biozilla_30:
(1, 16280), (2, 16271), (5, 16208), (11, 16151), (12, 16139), (Start: 14 @16106 has 2 MA's), (Start: 15 @16097 has 10 MA's), (21, 16037), (28, 15962),

Gene: Birdfeeder_26 Start: 15370, Stop: 15089, Start Num: 16
Candidate Starts for Birdfeeder_26:
(Start: 16 @15370 has 13 MA's), (28, 15256),

Gene: BlueRugrat_27 Start: 15656, Stop: 15375, Start Num: 16
Candidate Starts for BlueRugrat_27:
(Start: 16 @15656 has 13 MA's), (28, 15542),

Gene: Bush_34 Start: 21326, Stop: 21625, Start Num: 18
Candidate Starts for Bush_34:
(Start: 17 @21302 has 2 MA's), (Start: 18 @21326 has 4 MA's), (22, 21341), (30, 21464), (35, 21608),

Gene: Cece_345 Start: 184514, Stop: 184756, Start Num: 20
Candidate Starts for Cece_345:
(Start: 20 @184514 has 2 MA's), (25, 184562), (28, 184586), (29, 184610),

Gene: Cece_43 Start: 16080, Stop: 16322, Start Num: 20
Candidate Starts for Cece_43:
(Start: 20 @16080 has 2 MA's), (25, 16128), (28, 16152), (29, 16176),

Gene: Conditioner_27 Start: 15730, Stop: 15449, Start Num: 16
Candidate Starts for Conditioner_27:
(Start: 16 @15730 has 13 MA's), (28, 15616),

Gene: CookieDog_33 Start: 21314, Stop: 21613, Start Num: 18
Candidate Starts for CookieDog_33:
(Start: 17 @21290 has 2 MA's), (Start: 18 @21314 has 4 MA's), (22, 21329),

Gene: Corn21_27 Start: 15764, Stop: 15483, Start Num: 16
Candidate Starts for Corn21_27:
(Start: 16 @15764 has 13 MA's), (28, 15650),

Gene: CrunchyBoi_31 Start: 15949, Stop: 15635, Start Num: 15
Candidate Starts for CrunchyBoi_31:
(1, 16132), (2, 16123), (5, 16060), (11, 16003), (12, 15991), (Start: 14 @15958 has 2 MA's), (Start: 15 @15949 has 10 MA's), (21, 15889), (28, 15814), (30, 15769), (31, 15727),

Gene: Dashyla_27 Start: 15238, Stop: 14957, Start Num: 16
Candidate Starts for Dashyla_27:
(Start: 16 @15238 has 13 MA's), (28, 15124),

Gene: Dropshot_33 Start: 21174, Stop: 21488, Start Num: 17
Candidate Starts for Dropshot_33:
(Start: 17 @21174 has 2 MA's), (Start: 18 @21198 has 4 MA's), (22, 21213),

Gene: DumpQuist_27 Start: 15210, Stop: 14929, Start Num: 16
Candidate Starts for DumpQuist_27:
(Start: 16 @15210 has 13 MA's), (28, 15096),

Gene: HitchHiker_31 Start: 16097, Stop: 15783, Start Num: 15
Candidate Starts for HitchHiker_31:
(1, 16280), (2, 16271), (5, 16208), (11, 16151), (12, 16139), (Start: 14 @16106 has 2 MA's), (Start: 15 @16097 has 10 MA's), (21, 16037), (28, 15962),

Gene: JessellCookie_25 Start: 15086, Stop: 14763, Start Num: 15
Candidate Starts for JessellCookie_25:
(1, 15263), (7, 15185), (10, 15140), (Start: 15 @15086 has 10 MA's), (28, 14969),

Gene: Kozie_18 Start: 10515, Stop: 10769, Start Num: 19
Candidate Starts for Kozie_18:
(13, 10437), (Start: 19 @10515 has 1 MA's), (27, 10587), (30, 10635),

Gene: LesNorah_28 Start: 16078, Stop: 15797, Start Num: 16
Candidate Starts for LesNorah_28:
(Start: 16 @16078 has 13 MA's), (28, 15964),

Gene: LilyLou_28 Start: 15602, Stop: 15321, Start Num: 16
Candidate Starts for LilyLou_28:
(Start: 16 @15602 has 13 MA's), (28, 15488),

Gene: MenE_34 Start: 21466, Stop: 21765, Start Num: 18
Candidate Starts for MenE_34:
(Start: 17 @21442 has 2 MA's), (Start: 18 @21466 has 4 MA's), (22, 21481),

Gene: MiamiPanther_25 Start: 15086, Stop: 14763, Start Num: 15
Candidate Starts for MiamiPanther_25:
(1, 15263), (7, 15185), (Start: 15 @15086 has 10 MA's), (28, 14969),

Gene: Oatly_30 Start: 15648, Stop: 15334, Start Num: 15
Candidate Starts for Oatly_30:
(1, 15831), (2, 15822), (5, 15759), (11, 15702), (12, 15690), (Start: 14 @15657 has 2 MA's), (Start: 15 @15648 has 10 MA's), (21, 15588), (28, 15513), (30, 15468),

Gene: Pabst_28 Start: 15634, Stop: 15320, Start Num: 15
Candidate Starts for Pabst_28:
(3, 15799), (5, 15745), (12, 15676), (Start: 14 @15643 has 2 MA's), (Start: 15 @15634 has 10 MA's), (21, 15574), (28, 15499), (33, 15355),

Gene: Phogo_28 Start: 15425, Stop: 15144, Start Num: 16
Candidate Starts for Phogo_28:
(Start: 16 @15425 has 13 MA's), (28, 15311),

Gene: Pickles13_32 Start: 21628, Stop: 21918, Start Num: 18
Candidate Starts for Pickles13_32:
(5, 21472), (6, 21478), (9, 21496), (Start: 18 @21628 has 4 MA's), (36, 21907),

Gene: PineapplePluto_31 Start: 16007, Stop: 15693, Start Num: 15
Candidate Starts for PineapplePluto_31:
(1, 16190), (2, 16181), (5, 16118), (11, 16061), (12, 16049), (Start: 14 @16016 has 2 MA's), (Start: 15 @16007 has 10 MA's), (24, 15902), (28, 15872),

Gene: Salvatore2000_25 Start: 15086, Stop: 14763, Start Num: 15
Candidate Starts for Salvatore2000_25:
(1, 15263), (Start: 15 @15086 has 10 MA's), (28, 14969),

Gene: Sorvannah_25 Start: 15086, Stop: 14763, Start Num: 15
Candidate Starts for Sorvannah_25:
(1, 15263), (Start: 15 @15086 has 10 MA's), (28, 14969),

Gene: Stormbreaker_27 Start: 15546, Stop: 15265, Start Num: 16
Candidate Starts for Stormbreaker_27:
(Start: 16 @15546 has 13 MA's), (28, 15432),

Gene: SwissCheezer_27 Start: 15195, Stop: 14914, Start Num: 16

Candidate Starts for SwissCheezer_27:
(Start: 16 @15195 has 13 MA's), (28, 15081),

Gene: TicTac_30 Start: 16042, Stop: 15728, Start Num: 15
Candidate Starts for TicTac_30:
(4, 16138), (8, 16120), (Start: 14 @16051 has 2 MA's), (Start: 15 @16042 has 10 MA's), (28, 15907), (30, 15862),

Gene: TinyTimothy_25 Start: 15086, Stop: 14763, Start Num: 15
Candidate Starts for TinyTimothy_25:
(1, 15263), (7, 15185), (Start: 15 @15086 has 10 MA's), (28, 14969),

Gene: TownLake_27 Start: 15758, Stop: 15453, Start Num: 14
Candidate Starts for TownLake_27:
(7, 15851), (10, 15806), (Start: 14 @15758 has 2 MA's), (26, 15647), (28, 15632), (34, 15467),

Gene: Unphazed_28 Start: 15473, Stop: 15180, Start Num: 16
Candidate Starts for Unphazed_28:
(Start: 16 @15473 has 13 MA's), (23, 15383), (28, 15347), (32, 15233),

Gene: Warren_33 Start: 21371, Stop: 21694, Start Num: 17
Candidate Starts for Warren_33:
(Start: 17 @21371 has 2 MA's), (Start: 18 @21395 has 4 MA's), (22, 21410),

Gene: Wesak_25 Start: 14928, Stop: 14605, Start Num: 15
Candidate Starts for Wesak_25:
(1, 15105), (7, 15027), (Start: 15 @14928 has 10 MA's), (28, 14811),

Gene: Xitlalli_27 Start: 15843, Stop: 15538, Start Num: 14
Candidate Starts for Xitlalli_27:
(7, 15936), (10, 15891), (Start: 14 @15843 has 2 MA's), (26, 15732), (28, 15717), (34, 15552),

Gene: YellowPanda_26 Start: 14809, Stop: 14486, Start Num: 15
Candidate Starts for YellowPanda_26:
(1, 14986), (Start: 15 @14809 has 10 MA's), (28, 14692),