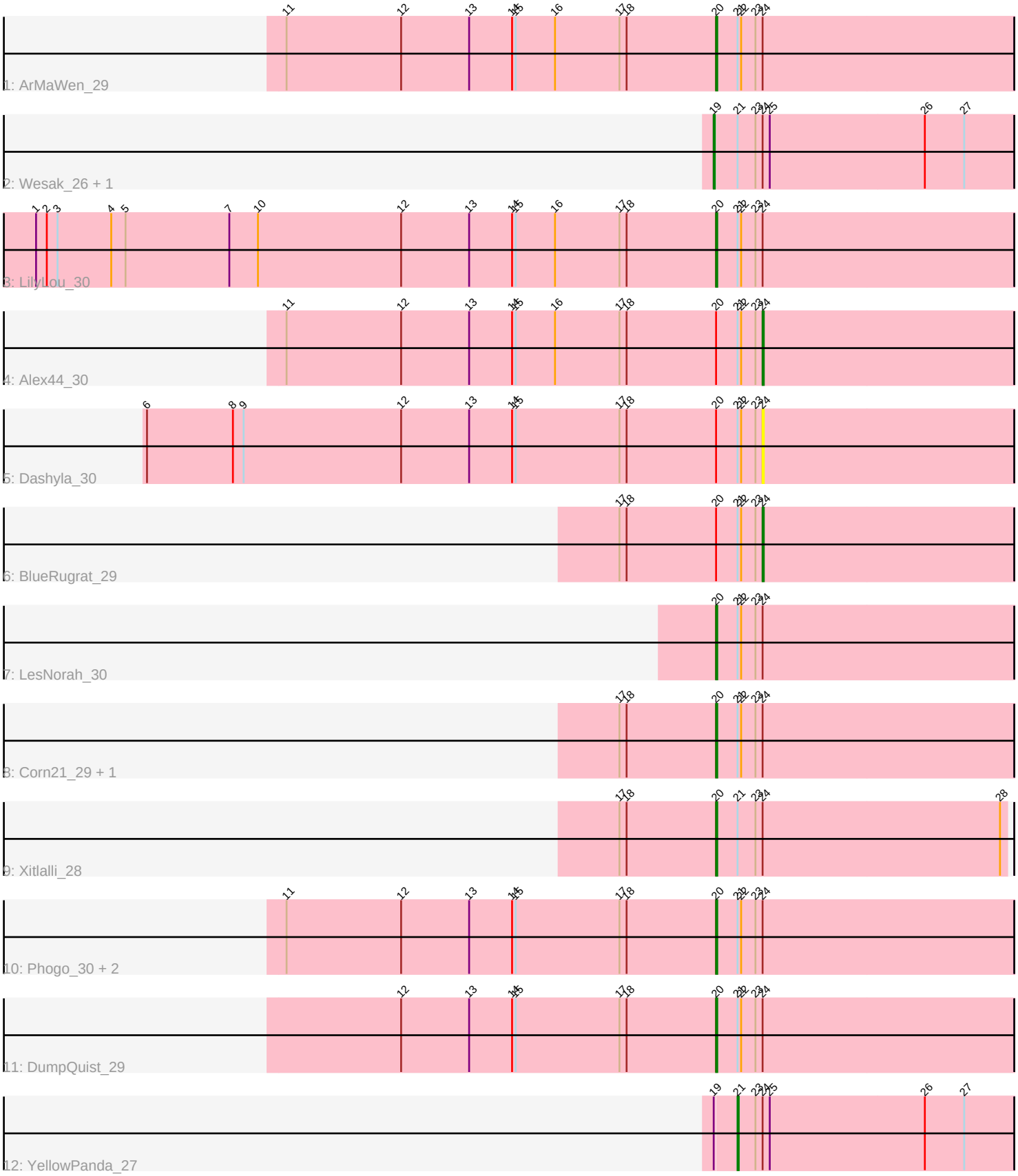
Pham 4666


1: ArMaWen_29
2: Wesak_26 + 1
3: Lilylou_30
4: Alex44_30
5: Dashyla_30
6: BlueRugrat_29
7: LesNorah_30
8: Corn21_29 + 1
9: Xitlalli_28
10: Phogo_30 + 2
11: DumpQuist_29
12: YellowPanda_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 4666 Report

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

Pham number 4666 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : ArMaWen_29
• Track 2 : Wesak_26, TinyTimothy_26
• Track 3 : LilyLou_30
• Track 4 : Alex44_30
• Track 5 : Dashyla_30
• Track 6 : BlueRugrat_29
• Track 7 : LesNorah_30
• Track 8 : Corn21_29, Unphazed_30
• Track 9 : Xitlalli_28
• Track 10 : Phogo_30, Birdfeeder_28, Stormbreaker_29
• Track 11 : DumpQuist_29
• Track 12 : YellowPanda_27

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

The start number called the most often in the published annotations is 20, it was called in 10 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArMaWen_29, Birdfeeder_28, Corn21_29, DumpQuist_29, LesNorah_30, LilyLou_30, Phogo_30, Stormbreaker_29, Unphazed_30, Xitlalli_28,

Genes that have the "Most Annotated" start but do not call it:
• Alex44_30, BlueRugrat_29, Dashyla_30,

Genes that do not have the "Most Annotated" start:
• TinyTimothy_26, Wesak_26, YellowPanda_27,

Summary by start number:

Start 19:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 66.7% of time when present

• Phage (with cluster) where this start called: TinyTimothy_26 (EK1), Wesak_26 (EK1),

Start 20:
• Found in 13 of 16 (81.2%) of genes in pham
• Manual Annotations of this start: 10 of 15
• Called 76.9% of time when present
• Phage (with cluster) where this start called: ArMaWen_29 (EK1), Birdfeeder_28 (EK1), Corn21_29 (EK1), DumpQuist_29 (EK1), LesNorah_30 (EK1), LilyLou_30 (EK1), Phogo_30 (EK1), Stormbreaker_29 (EK1), Unphazed_30 (EK1), Xitlalli_28 (EK1),

Start 21:
• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 6.2% of time when present
• Phage (with cluster) where this start called: YellowPanda_27 (EK1),

Start 24:
• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 18.8% of time when present
• Phage (with cluster) where this start called: Alex44_30 (EK1), BlueRugrat_29 (EK1), Dashyla_30 (EK1),

Summary by clusters:

There is one cluster represented in this pham: EK1

Info for manual annotations of cluster EK1:
•Start number 19 was manually annotated 2 times for cluster EK1.
•Start number 20 was manually annotated 10 times for cluster EK1.
•Start number 21 was manually annotated 1 time for cluster EK1.
•Start number 24 was manually annotated 2 times for cluster EK1.

Gene Information:

Gene: Alex44_30 Start: 16238, Stop: 16029, Start Num: 24
Candidate Starts for Alex44_30:
(11, 16637), (12, 16541), (13, 16484), (14, 16448), (15, 16445), (16, 16412), (17, 16358), (18, 16352), (Start: 20 @16277 has 10 MA's), (Start: 21 @16259 has 1 MA's), (22, 16256), (23, 16244), (Start: 24 @16238 has 2 MA's),

Gene: ArMaWen_29 Start: 15861, Stop: 15613, Start Num: 20
Candidate Starts for ArMaWen_29:
(11, 16221), (12, 16125), (13, 16068), (14, 16032), (15, 16029), (16, 15996), (17, 15942), (18, 15936), (Start: 20 @15861 has 10 MA's), (Start: 21 @15843 has 1 MA's), (22, 15840), (23, 15828), (Start: 24 @15822 has 2 MA's),

Gene: Birdfeeder_28 Start: 16009, Stop: 15761, Start Num: 20
Candidate Starts for Birdfeeder_28:

(11, 16369), (12, 16273), (13, 16216), (14, 16180), (15, 16177), (17, 16090), (18, 16084), (Start: 20 @16009 has 10 MA's), (Start: 21 @15991 has 1 MA's), (22, 15988), (23, 15976), (Start: 24 @15970 has 2 MA's),

Gene: BlueRugrat_29 Start: 16256, Stop: 16047, Start Num: 24
Candidate Starts for BlueRugrat_29:
(17, 16376), (18, 16370), (Start: 20 @16295 has 10 MA's), (Start: 21 @16277 has 1 MA's), (22, 16274), (23, 16262), (Start: 24 @16256 has 2 MA's),

Gene: Corn21_29 Start: 16403, Stop: 16155, Start Num: 20
Candidate Starts for Corn21_29:
(17, 16484), (18, 16478), (Start: 20 @16403 has 10 MA's), (Start: 21 @16385 has 1 MA's), (22, 16382), (23, 16370), (Start: 24 @16364 has 2 MA's),

Gene: Dashyla_30 Start: 15838, Stop: 15629, Start Num: 24
Candidate Starts for Dashyla_30:
(6, 16354), (8, 16282), (9, 16273), (12, 16141), (13, 16084), (14, 16048), (15, 16045), (17, 15958), (18, 15952), (Start: 20 @15877 has 10 MA's), (Start: 21 @15859 has 1 MA's), (22, 15856), (23, 15844), (Start: 24 @15838 has 2 MA's),

Gene: DumpQuist_29 Start: 15849, Stop: 15601, Start Num: 20
Candidate Starts for DumpQuist_29:
(12, 16113), (13, 16056), (14, 16020), (15, 16017), (17, 15930), (18, 15924), (Start: 20 @15849 has 10 MA's), (Start: 21 @15831 has 1 MA's), (22, 15828), (23, 15816), (Start: 24 @15810 has 2 MA's),

Gene: LesNorah_30 Start: 16717, Stop: 16469, Start Num: 20
Candidate Starts for LesNorah_30:
(Start: 20 @16717 has 10 MA's), (Start: 21 @16699 has 1 MA's), (22, 16696), (23, 16684), (Start: 24 @16678 has 2 MA's),

Gene: LilyLou_30 Start: 16241, Stop: 15993, Start Num: 20
Candidate Starts for LilyLou_30:
(1, 16811), (2, 16802), (3, 16793), (4, 16748), (5, 16736), (7, 16649), (10, 16625), (12, 16505), (13, 16448), (14, 16412), (15, 16409), (16, 16376), (17, 16322), (18, 16316), (Start: 20 @16241 has 10 MA's), (Start: 21 @16223 has 1 MA's), (22, 16220), (23, 16208), (Start: 24 @16202 has 2 MA's),

Gene: Phogo_30 Start: 16064, Stop: 15816, Start Num: 20
Candidate Starts for Phogo_30:
(11, 16424), (12, 16328), (13, 16271), (14, 16235), (15, 16232), (17, 16145), (18, 16139), (Start: 20 @16064 has 10 MA's), (Start: 21 @16046 has 1 MA's), (22, 16043), (23, 16031), (Start: 24 @16025 has 2 MA's),

Gene: Stormbreaker_29 Start: 16185, Stop: 15937, Start Num: 20
Candidate Starts for Stormbreaker_29:
(11, 16545), (12, 16449), (13, 16392), (14, 16356), (15, 16353), (17, 16266), (18, 16260), (Start: 20 @16185 has 10 MA's), (Start: 21 @16167 has 1 MA's), (22, 16164), (23, 16152), (Start: 24 @16146 has 2 MA's),

Gene: TinyTimothy_26 Start: 15327, Stop: 15079, Start Num: 19
Candidate Starts for TinyTimothy_26:
(Start: 19 @15327 has 2 MA's), (Start: 21 @15309 has 1 MA's), (23, 15294), (Start: 24 @15288 has 2 MA's), (25, 15282), (26, 15153), (27, 15120),

Gene: Unphazed_30 Start: 16112, Stop: 15864, Start Num: 20
Candidate Starts for Unphazed_30:
(17, 16193), (18, 16187), (Start: 20 @16112 has 10 MA's), (Start: 21 @16094 has 1 MA's), (22, 16091), (23, 16079), (Start: 24 @16073 has 2 MA's),

Gene: Wesak_26 Start: 15169, Stop: 14921, Start Num: 19
Candidate Starts for Wesak_26:
(Start: 19 @15169 has 2 MA's), (Start: 21 @15151 has 1 MA's), (23, 15136), (Start: 24 @15130 has 2 MA's), (25, 15124), (26, 14995), (27, 14962),

Gene: Xitlalli_28 Start: 16078, Stop: 15836, Start Num: 20
Candidate Starts for Xitlalli_28:
(17, 16159), (18, 16153), (Start: 20 @16078 has 10 MA's), (Start: 21 @16060 has 1 MA's), (23, 16045), (Start: 24 @16039 has 2 MA's), (28, 15841),

Gene: YellowPanda_27 Start: 15032, Stop: 14802, Start Num: 21
Candidate Starts for YellowPanda_27:
(Start: 19 @15050 has 2 MA's), (Start: 21 @15032 has 1 MA's), (23, 15017), (Start: 24 @15011 has 2 MA's), (25, 15005), (26, 14876), (27, 14843),