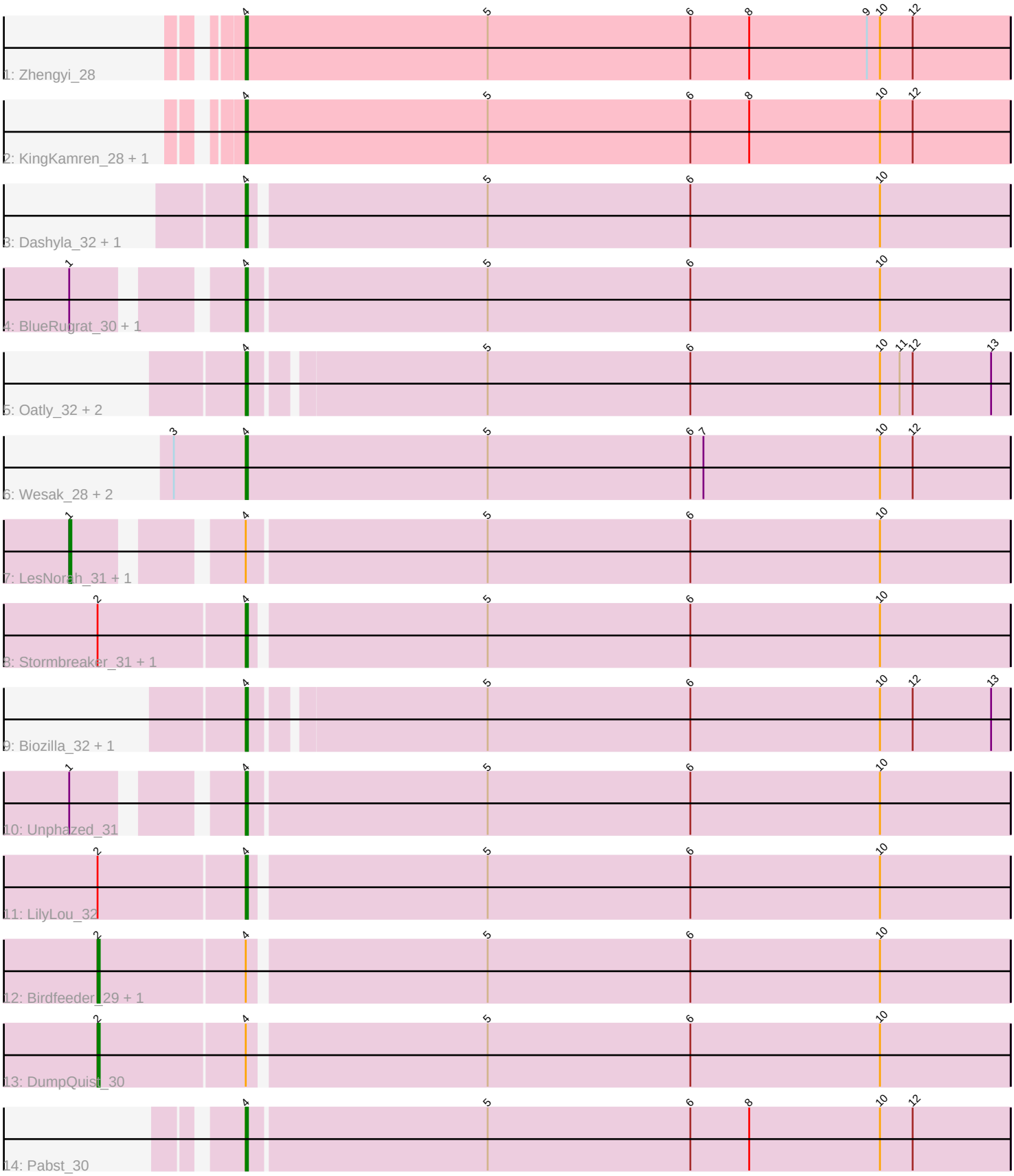
Pham 3800


1: Zhengyi_28
2: KingKamren_28 + 1
3: Dashyla_32 + 1
4: BlueRugrat_30 + 1
5: Oatly_32 + 2
6: Wesak_28 + 2
7: LesNorah_31 + 1
8: Stormbreaker_31 + 1
9: Biozilla_32 + 1
10: Unphazed_31
11: LilyLou_32
12: Birdfeeder_29 + 1
13: DumpQuist_30
14: Pabst_30

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 3800 Report

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

Pham number 3800 has 25 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Zhengyi_28
• Track 2 : KingKamren_28, EugeneKrabs_28
• Track 3 : Dashyla_32, Alex44_31
• Track 4 : BlueRugrat_30, Xitlalli_29
• Track 5 : Oatly_32, CrunchyBoi_33, PineapplePluto_33
• Track 6 : Wesak_28, YellowPanda_30, TinyTimothy_27
• Track 7 : LesNorah_31, Corn21_30
• Track 8 : Stormbreaker_31, ArMaWen_30
• Track 9 : Biozilla_32, HitchHiker_33
• Track 10 : Unphazed_31
• Track 11 : LilyLou_32
• Track 12 : Birdfeeder_29, Phogo_31
• Track 13 : DumpQuist_30
• Track 14 : Pabst_30

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

The start number called the most often in the published annotations is 4, it was called in 16 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alex44_31, ArMaWen_30, Biozilla_32, BlueRugrat_30, CrunchyBoi_33, Dashyla_32, EugeneKrabs_28, HitchHiker_33, KingKamren_28, LilyLou_32, Oatly_32, Pabst_30, PineapplePluto_33, Stormbreaker_31, TinyTimothy_27, Unphazed_31, Wesak_28, Xitlalli_29, YellowPanda_30, Zhengyi_28,

Genes that have the "Most Annotated" start but do not call it:
• Birdfeeder_29, Corn21_30, DumpQuist_30, LesNorah_31, Phogo_31,

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

Summary by start number:

Start 1:
• Found in 5 of 25 (20.0%) of genes in pham
• Manual Annotations of this start: 2 of 21
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Corn21_30 (EK1), LesNorah_31 (EK1),

Start 2:
• Found in 6 of 25 (24.0%) of genes in pham
• Manual Annotations of this start: 3 of 21
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Birdfeeder_29 (EK1), DumpQuist_30 (EK1), Phogo_31 (EK1),

Start 4:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 16 of 21
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Alex44_31 (EK1), ArMaWen_30 (EK1), Biozilla_32 (EK1), BlueRugrat_30 (EK1), CrunchyBoi_33 (EK1), Dashyla_32 (EK1), EugeneKrabs_28 (EK), HitchHiker_33 (EK1), KingKamren_28 (EK), LilyLou_32 (EK1), Oatly_32 (EK1), Pabst_30 (EK1), PineapplePluto_33 (EK1), Stormbreaker_31 (EK1), TinyTimothy_27 (EK1), Unphazed_31 (EK1), Wesak_28 (EK1), Xitlalli_29 (EK1), YellowPanda_30 (EK1), Zhengyi_28 (EK),

Summary by clusters:

There are 2 clusters represented in this pham: EK1, EK,

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

Info for manual annotations of cluster EK1:
•Start number 1 was manually annotated 2 times for cluster EK1.
•Start number 2 was manually annotated 3 times for cluster EK1.
•Start number 4 was manually annotated 14 times for cluster EK1.

Gene Information:

Gene: Alex44_31 Start: 17529, Stop: 17185, Start Num: 4
Candidate Starts for Alex44_31:
(Start: 4 @17529 has 16 MA's), (5, 17424), (6, 17331), (10, 17244),

Gene: ArMaWen_30 Start: 17075, Stop: 16731, Start Num: 4
Candidate Starts for ArMaWen_30:
(Start: 2 @17141 has 3 MA's), (Start: 4 @17075 has 16 MA's), (5, 16970), (6, 16877), (10, 16790),

Gene: Biozilla_32 Start: 17575, Stop: 17234, Start Num: 4
Candidate Starts for Biozilla_32:
(Start: 4 @17575 has 16 MA's), (5, 17473), (6, 17380), (10, 17293), (12, 17278), (13, 17242),

Gene: Birdfeeder_29 Start: 17327, Stop: 16917, Start Num: 2

Candidate Starts for Birdfeeder_29:
(Start: 2 @17327 has 3 MA's), (Start: 4 @17261 has 16 MA's), (5, 17156), (6, 17063), (10, 16976),

Gene: BlueRugrat_30 Start: 17513, Stop: 17166, Start Num: 4
Candidate Starts for BlueRugrat_30:
(Start: 1 @17576 has 2 MA's), (Start: 4 @17513 has 16 MA's), (5, 17405), (6, 17312), (10, 17225),

Gene: Corn21_30 Start: 17682, Stop: 17272, Start Num: 1
Candidate Starts for Corn21_30:
(Start: 1 @17682 has 2 MA's), (Start: 4 @17619 has 16 MA's), (5, 17511), (6, 17418), (10, 17331),

Gene: CrunchyBoi_33 Start: 17427, Stop: 17086, Start Num: 4
Candidate Starts for CrunchyBoi_33:
(Start: 4 @17427 has 16 MA's), (5, 17325), (6, 17232), (10, 17145), (11, 17136), (12, 17130), (13, 17094),

Gene: Dashyla_32 Start: 17206, Stop: 16862, Start Num: 4
Candidate Starts for Dashyla_32:
(Start: 4 @17206 has 16 MA's), (5, 17101), (6, 17008), (10, 16921),

Gene: DumpQuist_30 Start: 17132, Stop: 16722, Start Num: 2
Candidate Starts for DumpQuist_30:
(Start: 2 @17132 has 3 MA's), (Start: 4 @17066 has 16 MA's), (5, 16961), (6, 16868), (10, 16781),

Gene: EugeneKrabs_28 Start: 17660, Stop: 17310, Start Num: 4
Candidate Starts for EugeneKrabs_28:
(Start: 4 @17660 has 16 MA's), (5, 17549), (6, 17456), (8, 17429), (10, 17369), (12, 17354),

Gene: HitchHiker_33 Start: 17575, Stop: 17234, Start Num: 4
Candidate Starts for HitchHiker_33:
(Start: 4 @17575 has 16 MA's), (5, 17473), (6, 17380), (10, 17293), (12, 17278), (13, 17242),

Gene: KingKamren_28 Start: 17621, Stop: 17271, Start Num: 4
Candidate Starts for KingKamren_28:
(Start: 4 @17621 has 16 MA's), (5, 17510), (6, 17417), (8, 17390), (10, 17330), (12, 17315),

Gene: LesNorah_31 Start: 18001, Stop: 17591, Start Num: 1
Candidate Starts for LesNorah_31:
(Start: 1 @18001 has 2 MA's), (Start: 4 @17938 has 16 MA's), (5, 17830), (6, 17737), (10, 17650),

Gene: LilyLou_32 Start: 17494, Stop: 17150, Start Num: 4
Candidate Starts for LilyLou_32:
(Start: 2 @17560 has 3 MA's), (Start: 4 @17494 has 16 MA's), (5, 17389), (6, 17296), (10, 17209),

Gene: Oatly_32 Start: 17126, Stop: 16785, Start Num: 4
Candidate Starts for Oatly_32:
(Start: 4 @17126 has 16 MA's), (5, 17024), (6, 16931), (10, 16844), (11, 16835), (12, 16829), (13, 16793),

Gene: Pabst_30 Start: 17139, Stop: 16792, Start Num: 4
Candidate Starts for Pabst_30:
(Start: 4 @17139 has 16 MA's), (5, 17031), (6, 16938), (8, 16911), (10, 16851), (12, 16836),

Gene: Phogo_31 Start: 17382, Stop: 16972, Start Num: 2
Candidate Starts for Phogo_31:
(Start: 2 @17382 has 3 MA's), (Start: 4 @17316 has 16 MA's), (5, 17211), (6, 17118), (10, 17031),

Gene: PineapplePluto_33 Start: 17485, Stop: 17144, Start Num: 4
Candidate Starts for PineapplePluto_33:
(Start: 4 @17485 has 16 MA's), (5, 17383), (6, 17290), (10, 17203), (11, 17194), (12, 17188), (13, 17152),

Gene: Stormbreaker_31 Start: 17437, Stop: 17093, Start Num: 4
Candidate Starts for Stormbreaker_31:
(Start: 2 @17503 has 3 MA's), (Start: 4 @17437 has 16 MA's), (5, 17332), (6, 17239), (10, 17152),

Gene: TinyTimothy_27 Start: 16601, Stop: 16251, Start Num: 4
Candidate Starts for TinyTimothy_27:
(3, 16634), (Start: 4 @16601 has 16 MA's), (5, 16490), (6, 16397), (7, 16391), (10, 16310), (12, 16295),

Gene: Unphazed_31 Start: 17332, Stop: 16985, Start Num: 4
Candidate Starts for Unphazed_31:
(Start: 1 @17395 has 2 MA's), (Start: 4 @17332 has 16 MA's), (5, 17224), (6, 17131), (10, 17044),

Gene: Wesak_28 Start: 16443, Stop: 16093, Start Num: 4
Candidate Starts for Wesak_28:
(3, 16476), (Start: 4 @16443 has 16 MA's), (5, 16332), (6, 16239), (7, 16233), (10, 16152), (12, 16137),

Gene: Xitlalli_29 Start: 17297, Stop: 16950, Start Num: 4
Candidate Starts for Xitlalli_29:
(Start: 1 @17360 has 2 MA's), (Start: 4 @17297 has 16 MA's), (5, 17189), (6, 17096), (10, 17009),

Gene: YellowPanda_30 Start: 16324, Stop: 15974, Start Num: 4
Candidate Starts for YellowPanda_30:
(3, 16357), (Start: 4 @16324 has 16 MA's), (5, 16213), (6, 16120), (7, 16114), (10, 16033), (12, 16018),

Gene: Zhengyi_28 Start: 17710, Stop: 17360, Start Num: 4
Candidate Starts for Zhengyi_28:
(Start: 4 @17710 has 16 MA's), (5, 17599), (6, 17506), (8, 17479), (9, 17425), (10, 17419), (12, 17404),