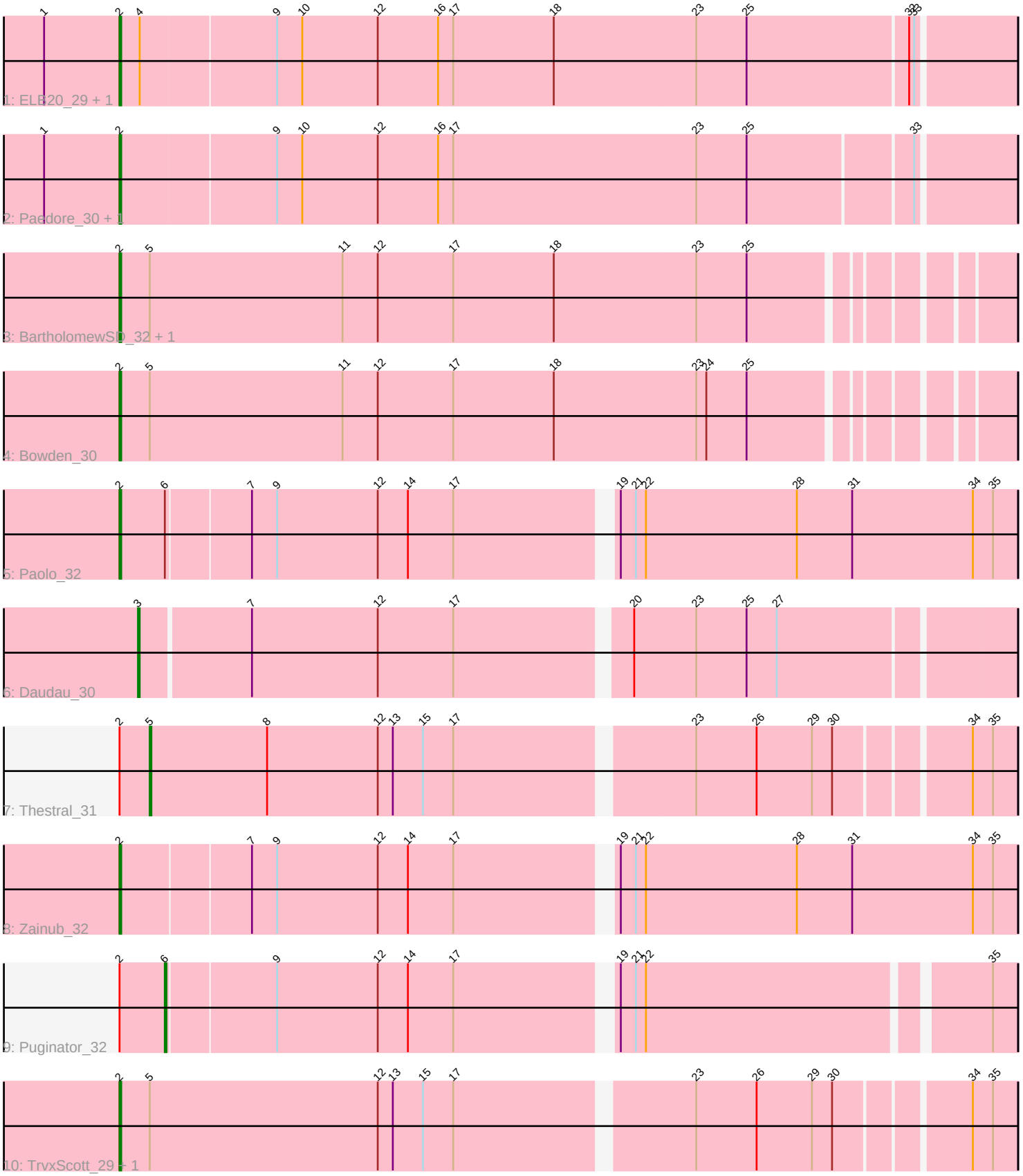
Pham 341225


1: ELB20_29 + 1
2: Paeddore_30 + 1
3: BartholomewSD_32 + 1
4: Bowden_30
5: Paolo_32
6: Daudau_30
7: Thestral_31
8: Zainub_32
9: Puginator_32
10: TrvxScott_29 + 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 341225 Report

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

Pham number 341225 has 14 members, 0 are drafts.

Phages represented in each track:
• Track 1 : ELB20_29, R4_30
• Track 2 : Paedore_30, Loofah_31
• Track 3 : BartholomewSD_32, Alvy_32
• Track 4 : Bowden_30
• Track 5 : Paolo_32
• Track 6 : Daudau_30
• Track 7 : Thestral_31
• Track 8 : Zainub_32
• Track 9 : Puginator_32
• Track 10 : TrvxScott_29, TinaBelcher_30

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Alvy_32, BartholomewSD_32, Bowden_30, ELB20_29, Loofah_31, Paedore_30, Paolo_32, R4_30, TinaBelcher_30, TrvxScott_29, Zainub_32,

Genes that have the "Most Annotated" start but do not call it:
• Puginator_32, Thestral_31,

Genes that do not have the "Most Annotated" start:
• Daudau_30,

Summary by start number:

Start 2:
• Found in 13 of 14 (92.9%) of genes in pham
• Manual Annotations of this start: 11 of 14
• Called 84.6% of time when present
• Phage (with cluster) where this start called: Alvy_32 (BD2), BartholomewSD_32 (BD2), Bowden_30 (BD2), ELB20_29 (BD2), Loofah_31 (BD2), Paedore_30 (BD2),

Paolo_32 (BD2), R4_30 (BD2), TinaBelcher_30 (BD2), TrvxScott_29 (BD2), Zainub_32 (BD2),

Start 3:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daudau_30 (BD2),

Start 5:
• Found in 6 of 14 (42.9%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Thestral_31 (BD2),

Start 6:
• Found in 2 of 14 (14.3%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Puginator_32 (BD2),

Summary by clusters:

There is one cluster represented in this pham: BD2

Info for manual annotations of cluster BD2:
•Start number 2 was manually annotated 11 times for cluster BD2.
•Start number 3 was manually annotated 1 time for cluster BD2.
•Start number 5 was manually annotated 1 time for cluster BD2.
•Start number 6 was manually annotated 1 time for cluster BD2.

Gene Information:

Gene: Alvy_32 Start: 24316, Stop: 24822, Start Num: 2
Candidate Starts for Alvy_32:
(Start: 2 @24316 has 11 MA's), (Start: 5 @24334 has 1 MA's), (11, 24448), (12, 24469), (17, 24514), (18, 24574), (23, 24658), (25, 24688),

Gene: BartholomewSD_32 Start: 24316, Stop: 24822, Start Num: 2
Candidate Starts for BartholomewSD_32:
(Start: 2 @24316 has 11 MA's), (Start: 5 @24334 has 1 MA's), (11, 24448), (12, 24469), (17, 24514), (18, 24574), (23, 24658), (25, 24688),

Gene: Bowden_30 Start: 24231, Stop: 24737, Start Num: 2
Candidate Starts for Bowden_30:
(Start: 2 @24231 has 11 MA's), (Start: 5 @24249 has 1 MA's), (11, 24363), (12, 24384), (17, 24429), (18, 24489), (23, 24573), (24, 24579), (25, 24603),

Gene: Daudau_30 Start: 23992, Stop: 24489, Start Num: 3
Candidate Starts for Daudau_30:

(Start: 3 @23992 has 1 MA's), (7, 24055), (12, 24130), (17, 24175), (20, 24271), (23, 24307), (25, 24337), (27, 24355),

Gene: ELB20_29 Start: 24348, Stop: 24869, Start Num: 2
Candidate Starts for ELB20_29:
(1, 24303), (Start: 2 @24348 has 11 MA's), (4, 24360), (9, 24438), (10, 24453), (12, 24498), (16, 24534), (17, 24543), (18, 24603), (23, 24687), (25, 24717), (32, 24810), (33, 24813),

Gene: Loofah_31 Start: 24242, Stop: 24760, Start Num: 2
Candidate Starts for Loofah_31:
(1, 24197), (Start: 2 @24242 has 11 MA's), (9, 24332), (10, 24347), (12, 24392), (16, 24428), (17, 24437), (23, 24581), (25, 24611), (33, 24704),

Gene: Paedore_30 Start: 24227, Stop: 24745, Start Num: 2
Candidate Starts for Paedore_30:
(1, 24182), (Start: 2 @24227 has 11 MA's), (9, 24317), (10, 24332), (12, 24377), (16, 24413), (17, 24422), (23, 24566), (25, 24596), (33, 24689),

Gene: Paolo_32 Start: 24568, Stop: 25086, Start Num: 2
Candidate Starts for Paolo_32:
(Start: 2 @24568 has 11 MA's), (Start: 6 @24595 has 1 MA's), (7, 24643), (9, 24658), (12, 24718), (14, 24736), (17, 24763), (19, 24850), (21, 24859), (22, 24865), (28, 24955), (31, 24988), (34, 25060), (35, 25072),

Gene: Puginator_32 Start: 24631, Stop: 25107, Start Num: 6
Candidate Starts for Puginator_32:
(Start: 2 @24604 has 11 MA's), (Start: 6 @24631 has 1 MA's), (9, 24694), (12, 24754), (14, 24772), (17, 24799), (19, 24886), (21, 24895), (22, 24901), (35, 25093),

Gene: R4_30 Start: 24358, Stop: 24879, Start Num: 2
Candidate Starts for R4_30:
(1, 24313), (Start: 2 @24358 has 11 MA's), (4, 24370), (9, 24448), (10, 24463), (12, 24508), (16, 24544), (17, 24553), (18, 24613), (23, 24697), (25, 24727), (32, 24820), (33, 24823),

Gene: Thestral_31 Start: 24232, Stop: 24723, Start Num: 5
Candidate Starts for Thestral_31:
(Start: 2 @24214 has 11 MA's), (Start: 5 @24232 has 1 MA's), (8, 24301), (12, 24367), (13, 24376), (15, 24394), (17, 24412), (23, 24544), (26, 24580), (29, 24613), (30, 24625), (34, 24697), (35, 24709),

Gene: TinaBelcher_30 Start: 24161, Stop: 24670, Start Num: 2
Candidate Starts for TinaBelcher_30:
(Start: 2 @24161 has 11 MA's), (Start: 5 @24179 has 1 MA's), (12, 24314), (13, 24323), (15, 24341), (17, 24359), (23, 24491), (26, 24527), (29, 24560), (30, 24572), (34, 24644), (35, 24656),

Gene: TrvxScott_29 Start: 24207, Stop: 24716, Start Num: 2
Candidate Starts for TrvxScott_29:
(Start: 2 @24207 has 11 MA's), (Start: 5 @24225 has 1 MA's), (12, 24360), (13, 24369), (15, 24387), (17, 24405), (23, 24537), (26, 24573), (29, 24606), (30, 24618), (34, 24690), (35, 24702),

Gene: Zainub_32 Start: 24529, Stop: 25047, Start Num: 2
Candidate Starts for Zainub_32:
(Start: 2 @24529 has 11 MA's), (7, 24604), (9, 24619), (12, 24679), (14, 24697), (17, 24724), (19, 24811), (21, 24820), (22, 24826), (28, 24916), (31, 24949), (34, 25021), (35, 25033),