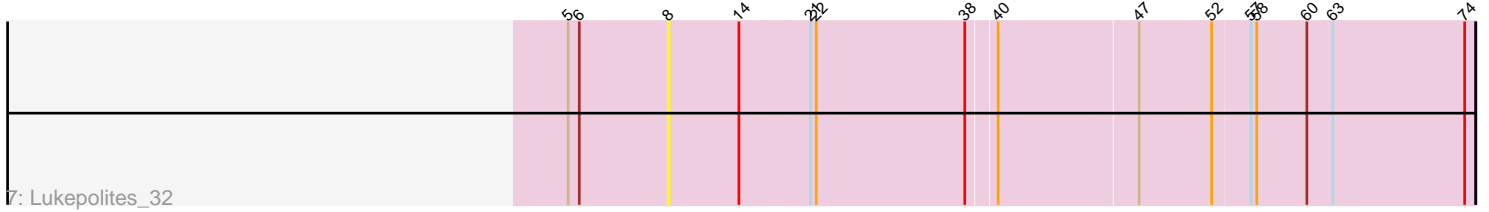
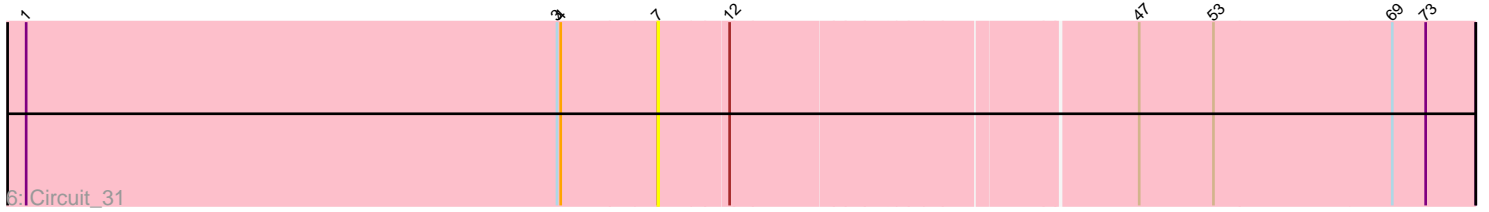
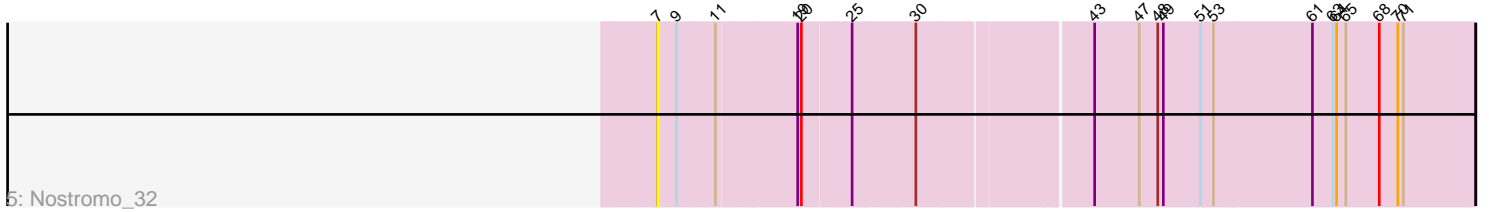
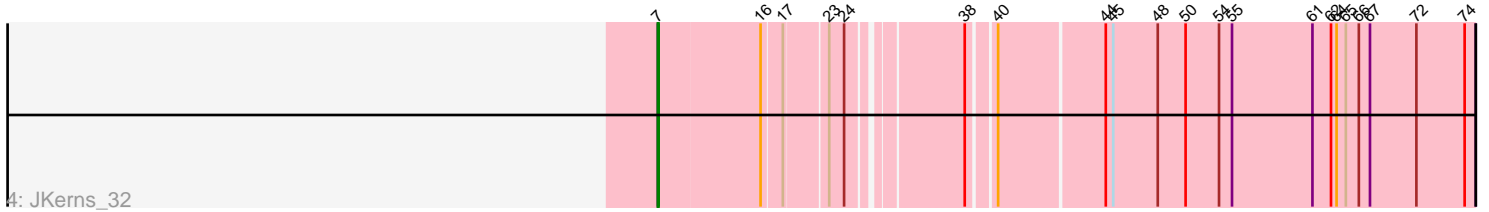
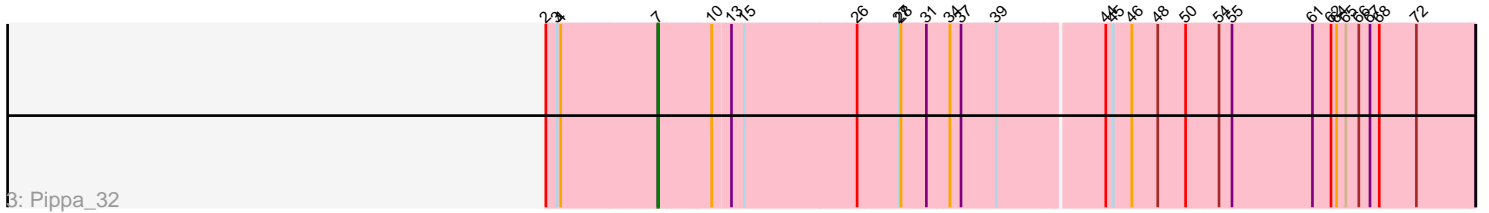
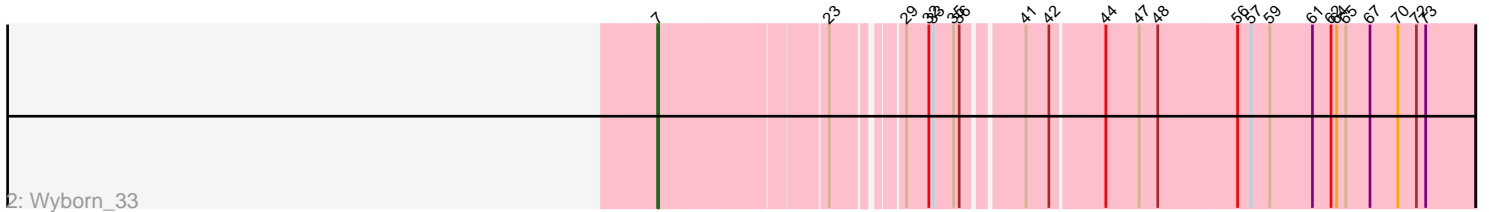
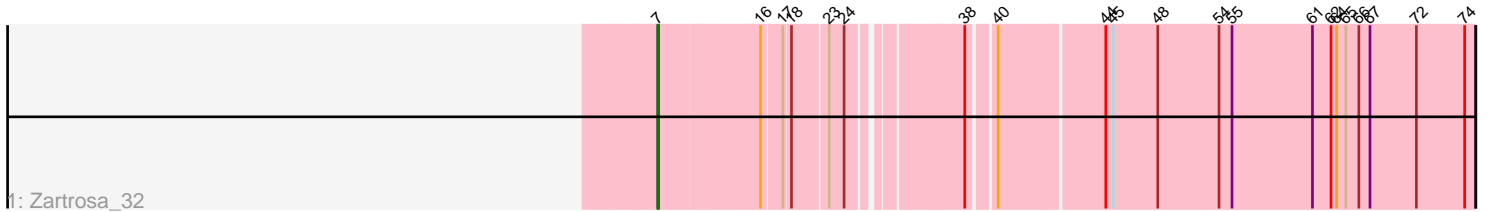


Pham 223715



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 223715 Report

This analysis was run 03/28/25 on database version 593.

Pham number 223715 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Zartrosa_32
- Track 2 : Wyborn_33
- Track 3 : Pippa_32
- Track 4 : JKerns_32
- Track 5 : Nostromo_32
- Track 6 : Circuit_31
- Track 7 : Lukepolites_32

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

The start number called the most often in the published annotations is 7, it was called in 4 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Circuit_31, JKerns_32, Nostromo_32, Pippa_32, Wyborn_33, Zartrosa_32,

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

-

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

- Lukepolites_32,

Summary by start number:

Start 7:

- Found in 6 of 7 (85.7%) of genes in pham
- Manual Annotations of this start: 4 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Circuit_31 (FH), JKerns_32 (AO2), Nostromo_32 (AO3), Pippa_32 (AO2), Wyborn_33 (AO2), Zartrosa_32 (AO2),

Start 8:

- Found in 1 of 7 (14.3%) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lukepolites_32 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: FH, singleton, AO3, AO2,

Info for manual annotations of cluster AO2:

- Start number 7 was manually annotated 4 times for cluster AO2.

Gene Information:

Gene: Circuit_31 Start: 26021, Stop: 27280, Start Num: 7

Candidate Starts for Circuit_31:

(1, 25004), (3, 25862), (4, 25868), (Start: 7 @26021 has 4 MA's), (12, 26129), (47, 26747), (53, 26867), (69, 27152), (73, 27206),

Gene: JKerns_32 Start: 27139, Stop: 28335, Start Num: 7

Candidate Starts for JKerns_32:

(Start: 7 @27139 has 4 MA's), (16, 27295), (17, 27325), (23, 27388), (24, 27409), (38, 27556), (40, 27589), (44, 27748), (45, 27760), (48, 27832), (50, 27877), (54, 27928), (55, 27949), (61, 28078), (62, 28108), (64, 28117), (65, 28132), (66, 28150), (67, 28168), (72, 28243), (74, 28321),

Gene: Lukepolites_32 Start: 25923, Stop: 27185, Start Num: 8

Candidate Starts for Lukepolites_32:

(5, 25761), (6, 25779), (8, 25923), (14, 26037), (21, 26151), (22, 26160), (38, 26400), (40, 26442), (47, 26661), (52, 26778), (57, 26832), (58, 26841), (60, 26922), (63, 26964), (74, 27174),

Gene: Nostromo_32 Start: 26138, Stop: 27400, Start Num: 7

Candidate Starts for Nostromo_32:

(Start: 7 @26138 has 4 MA's), (9, 26168), (11, 26228), (19, 26354), (20, 26360), (25, 26435), (30, 26531), (43, 26795), (47, 26867), (48, 26897), (49, 26906), (51, 26966), (53, 26984), (61, 27143), (63, 27176), (64, 27182), (65, 27197), (68, 27251), (70, 27281), (71, 27290),

Gene: Pippa_32 Start: 27238, Stop: 28515, Start Num: 7

Candidate Starts for Pippa_32:

(2, 27064), (3, 27082), (4, 27088), (Start: 7 @27238 has 4 MA's), (10, 27319), (13, 27346), (15, 27367), (26, 27547), (27, 27610), (28, 27613), (31, 27652), (34, 27688), (37, 27706), (39, 27763), (44, 27928), (45, 27940), (46, 27970), (48, 28012), (50, 28057), (54, 28108), (55, 28129), (61, 28258), (62, 28288), (64, 28297), (65, 28312), (66, 28330), (67, 28348), (68, 28363), (72, 28423),

Gene: Wyborn_33 Start: 27430, Stop: 28632, Start Num: 7

Candidate Starts for Wyborn_33:

(Start: 7 @27430 has 4 MA's), (23, 27682), (29, 27760), (32, 27796), (33, 27802), (35, 27832), (36, 27841), (41, 27925), (42, 27961), (44, 28042), (47, 28096), (48, 28126), (56, 28252), (57, 28273), (59, 28303), (61, 28372), (62, 28402), (64, 28411), (65, 28426), (67, 28462), (70, 28507), (72, 28537), (73, 28552),

Gene: Zartrosa_32 Start: 27103, Stop: 28299, Start Num: 7

Candidate Starts for Zartrosa_32:

(Start: 7 @27103 has 4 MA's), (16, 27259), (17, 27289), (18, 27298), (23, 27352), (24, 27373), (38, 27520), (40, 27553), (44, 27712), (45, 27724), (48, 27796), (54, 27892), (55, 27913), (61, 28042), (62, 28072), (64, 28081), (65, 28096), (66, 28114), (67, 28132), (72, 28207), (74, 28285),