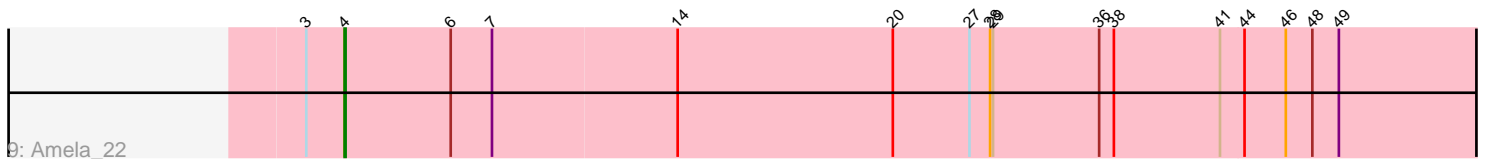
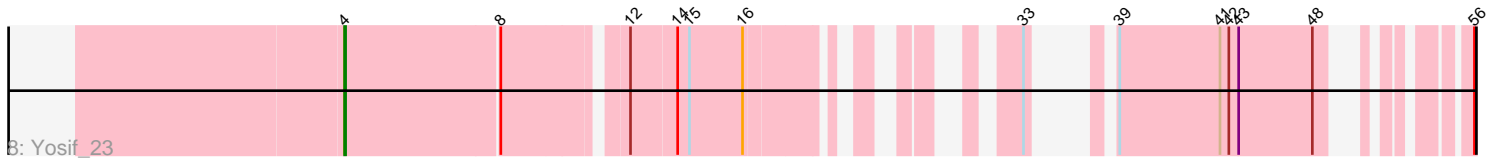
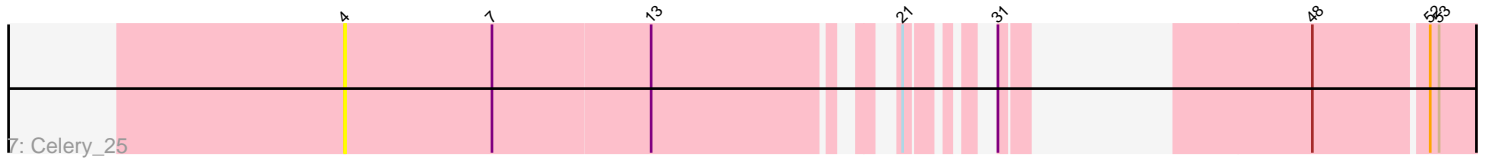
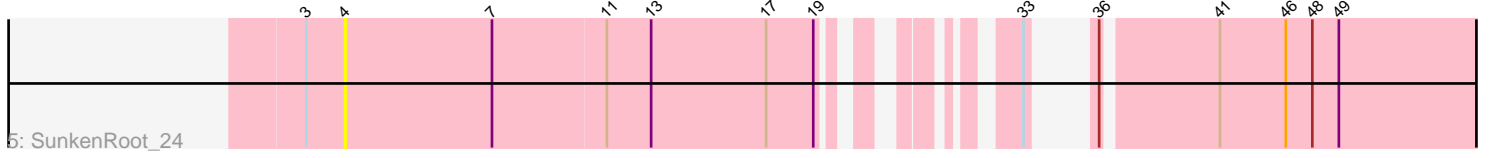
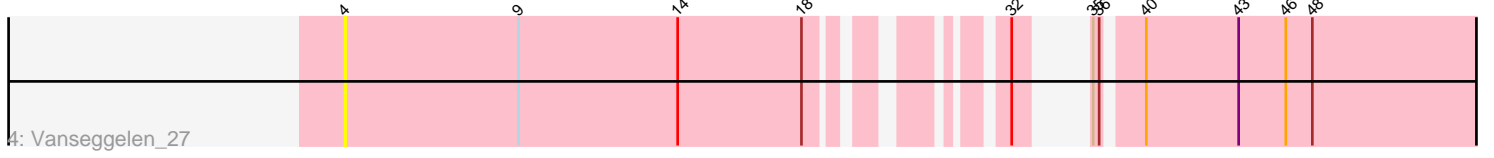
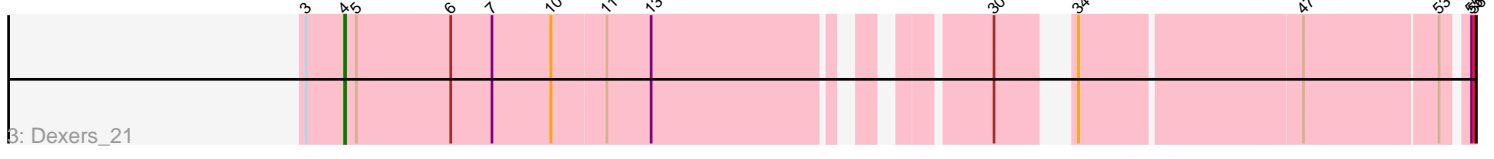
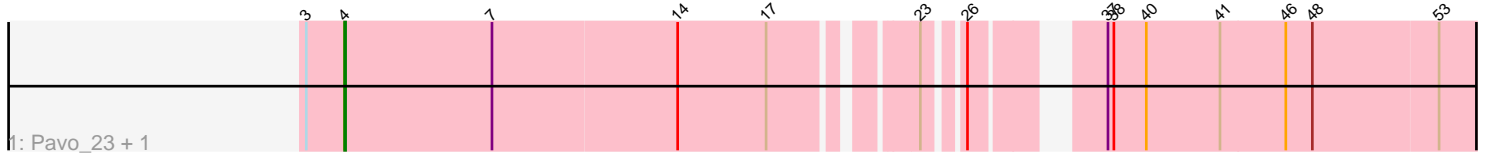


Zoomed Pham 297117



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 297117 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297117 has 13 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Pavo_23, Conan_23
- Track 2 : Alsaber_23, Sudan_22, Kaine_22
- Track 3 : Dexers_21
- Track 4 : Vanseggelen_27
- Track 5 : SunkenRoot_24
- Track 6 : phiCAM_23
- Track 7 : Celery_25
- Track 8 : Yosif_23
- Track 9 : Amela_22
- Track 10 : Verse_22

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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alsaber_23, Amela_22, Celery_25, Conan_23, Dexers_21, Kaine_22, Pavo_23, Sudan_22, SunkenRoot_24, Vanseggelen_27, Verse_22, Yosif_23, phiCAM_23,

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

-

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

-

Summary by start number:

Start 4:

- Found in 13 of 13 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alsaber_23 (BD3), Amela_22 (BD3), Celery_25 (BD3), Conan_23 (BD3), Dexers_21 (BD3), Kaine_22 (BD3), Pavo_23

(BD3), Sudan_22 (BD3), SunkenRoot_24 (BD3), Vanseggelen_27 (BD3), Verse_22 (BD3), Yosif_23 (BD3), phiCAM_23 (BD3),

Summary by clusters:

There is one cluster represented in this pham: BD3

Info for manual annotations of cluster BD3:

•Start number 4 was manually annotated 9 times for cluster BD3.

Gene Information:

Gene: Alsaber_23 Start: 18064, Stop: 19866, Start Num: 4

Candidate Starts for Alsaber_23:

(3, 18025), (Start: 4 @18064 has 9 MA's), (5, 18076), (6, 18172), (7, 18214), (10, 18274), (13, 18373), (24, 18589), (59, 18904), (60, 18925), (62, 18949), (64, 18982), (67, 19069), (68, 19126), (74, 19279), (76, 19327), (77, 19360), (78, 19414), (84, 19696), (85, 19738), (87, 19771),

Gene: Amela_22 Start: 18357, Stop: 20531, Start Num: 4

Candidate Starts for Amela_22:

(3, 18318), (Start: 4 @18357 has 9 MA's), (6, 18465), (7, 18507), (14, 18693), (20, 18912), (27, 18990), (28, 19011), (29, 19014), (36, 19122), (38, 19137), (41, 19245), (44, 19269), (46, 19311), (48, 19338), (49, 19365), (59, 19563), (61, 19602), (63, 19635), (66, 19689), (68, 19785), (78, 20073), (83, 20292), (84, 20355), (85, 20397), (87, 20436),

Gene: Celery_25 Start: 18018, Stop: 19919, Start Num: 4

Candidate Starts for Celery_25:

(Start: 4 @18018 has 9 MA's), (7, 18168), (13, 18327), (21, 18528), (31, 18576), (48, 18744), (52, 18855), (53, 18864), (59, 18960), (62, 19005), (63, 19032), (65, 19041), (66, 19086), (68, 19182), (78, 19470), (81, 19662), (82, 19668), (84, 19749),

Gene: Conan_23 Start: 17786, Stop: 19858, Start Num: 4

Candidate Starts for Conan_23:

(3, 17747), (Start: 4 @17786 has 9 MA's), (7, 17936), (14, 18122), (17, 18212), (23, 18332), (26, 18362), (37, 18461), (38, 18467), (40, 18500), (41, 18575), (46, 18641), (48, 18668), (53, 18794), (59, 18890), (61, 18929), (62, 18935), (63, 18962), (66, 19016), (68, 19112), (71, 19157), (72, 19223), (77, 19346), (78, 19400), (83, 19619), (84, 19682), (85, 19724), (87, 19763),

Gene: Dexers_21 Start: 17767, Stop: 19797, Start Num: 4

Candidate Starts for Dexers_21:

(3, 17728), (Start: 4 @17767 has 9 MA's), (5, 17779), (6, 17875), (7, 17917), (10, 17977), (11, 18031), (13, 18076), (30, 18358), (34, 18409), (47, 18622), (53, 18751), (55, 18772), (56, 18775), (59, 18835), (61, 18874), (62, 18880), (63, 18907), (65, 18916), (68, 19057), (74, 19210), (78, 19345), (80, 19459), (84, 19627), (85, 19669), (87, 19702),

Gene: Kaine_22 Start: 17767, Stop: 19569, Start Num: 4

Candidate Starts for Kaine_22:

(3, 17728), (Start: 4 @17767 has 9 MA's), (5, 17779), (6, 17875), (7, 17917), (10, 17977), (13, 18076), (24, 18292), (59, 18607), (60, 18628), (62, 18652), (64, 18685), (67, 18772), (68, 18829), (74, 18982), (76, 19030), (77, 19063), (78, 19117), (84, 19399), (85, 19441), (87, 19474),

Gene: Pavo_23 Start: 18059, Stop: 20131, Start Num: 4

Candidate Starts for Pavo_23:

(3, 18020), (Start: 4 @18059 has 9 MA's), (7, 18209), (14, 18395), (17, 18485), (23, 18605), (26, 18635), (37, 18734), (38, 18740), (40, 18773), (41, 18848), (46, 18914), (48, 18941), (53, 19067), (59, 19163), (61, 19202), (62, 19208), (63, 19235), (66, 19289), (68, 19385), (71, 19430), (72, 19496), (77, 19619), (78, 19673), (83, 19892), (84, 19955), (85, 19997), (87, 20036),

Gene: Sudan_22 Start: 18054, Stop: 19856, Start Num: 4

Candidate Starts for Sudan_22:

(3, 18015), (Start: 4 @18054 has 9 MA's), (5, 18066), (6, 18162), (7, 18204), (10, 18264), (13, 18363), (24, 18579), (59, 18894), (60, 18915), (62, 18939), (64, 18972), (67, 19059), (68, 19116), (74, 19269), (76, 19317), (77, 19350), (78, 19404), (84, 19686), (85, 19728), (87, 19761),

Gene: SunkenRoot_24 Start: 18350, Stop: 20338, Start Num: 4

Candidate Starts for SunkenRoot_24:

(3, 18311), (Start: 4 @18350 has 9 MA's), (7, 18500), (11, 18614), (13, 18659), (17, 18776), (19, 18824), (33, 18935), (36, 18950), (41, 19058), (46, 19124), (48, 19151), (49, 19178), (59, 19376), (60, 19397), (62, 19421), (63, 19448), (66, 19502), (67, 19541), (68, 19598), (69, 19619), (78, 19886), (84, 20168), (91, 20333),

Gene: Vanseggelen_27 Start: 17719, Stop: 19728, Start Num: 4

Candidate Starts for Vanseggelen_27:

(Start: 4 @17719 has 9 MA's), (9, 17896), (14, 18058), (18, 18184), (32, 18316), (35, 18337), (36, 18343), (40, 18376), (43, 18469), (46, 18517), (48, 18544), (59, 18769), (61, 18808), (62, 18814), (63, 18841), (66, 18895), (68, 18991), (69, 19012), (71, 19036), (78, 19279), (81, 19471), (82, 19477), (84, 19558), (88, 19636),

Gene: Verse_22 Start: 18351, Stop: 20525, Start Num: 4

Candidate Starts for Verse_22:

(3, 18312), (Start: 4 @18351 has 9 MA's), (6, 18459), (7, 18501), (14, 18687), (17, 18777), (20, 18906), (27, 18984), (28, 19005), (29, 19008), (36, 19116), (38, 19131), (41, 19239), (44, 19263), (46, 19305), (48, 19332), (49, 19359), (54, 19482), (59, 19557), (61, 19596), (63, 19629), (66, 19683), (68, 19779), (78, 20067), (83, 20286), (84, 20349), (85, 20391), (87, 20430),

Gene: Yosif_23 Start: 18289, Stop: 20154, Start Num: 4

Candidate Starts for Yosif_23:

(Start: 4 @18289 has 9 MA's), (8, 18442), (12, 18550), (14, 18595), (15, 18607), (16, 18661), (33, 18826), (39, 18847), (41, 18949), (42, 18958), (43, 18967), (48, 19042), (56, 19126), (57, 19132), (59, 19180), (62, 19225), (63, 19252), (65, 19261), (66, 19306), (68, 19402), (70, 19444), (73, 19519), (75, 19567), (84, 19972), (86, 20023), (90, 20113),

Gene: phiCAM_23 Start: 20017, Stop: 21960, Start Num: 4

Candidate Starts for phiCAM_23:

(1, 19699), (2, 19702), (Start: 4 @20017 has 9 MA's), (7, 20167), (13, 20326), (22, 20536), (24, 20545), (25, 20560), (26, 20569), (40, 20659), (45, 20770), (50, 20860), (51, 20902), (58, 20968), (59, 20998), (61, 21037), (62, 21043), (63, 21070), (65, 21079), (66, 21124), (67, 21163), (68, 21220), (69, 21241), (73, 21337), (78, 21508), (79, 21598), (80, 21622), (81, 21700), (84, 21790), (89, 21910), (90, 21919),