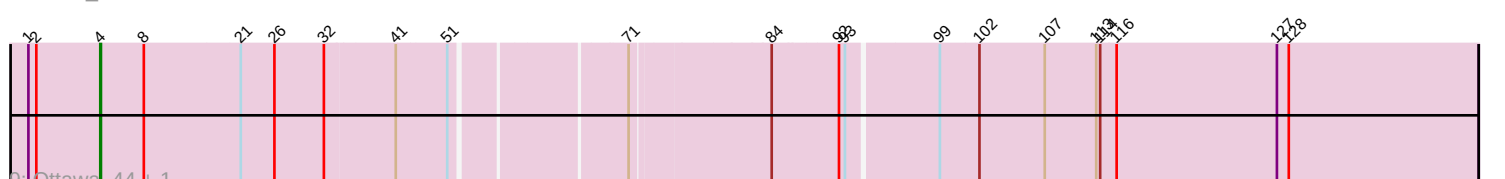
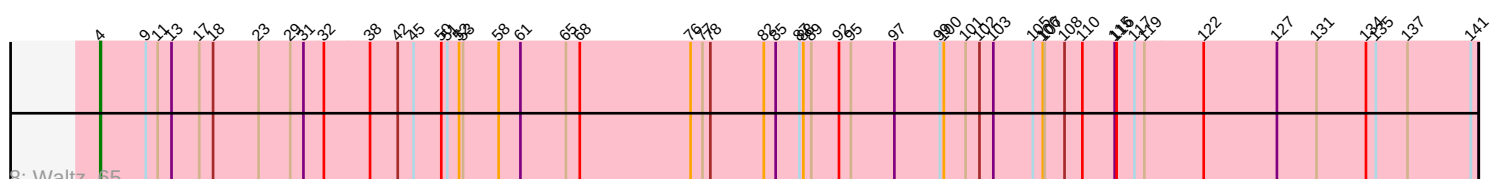
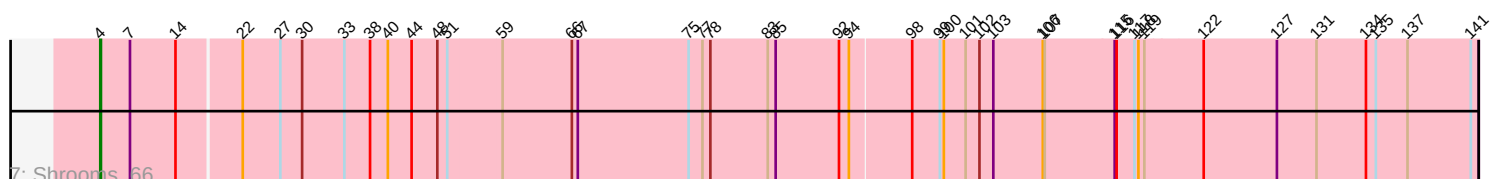
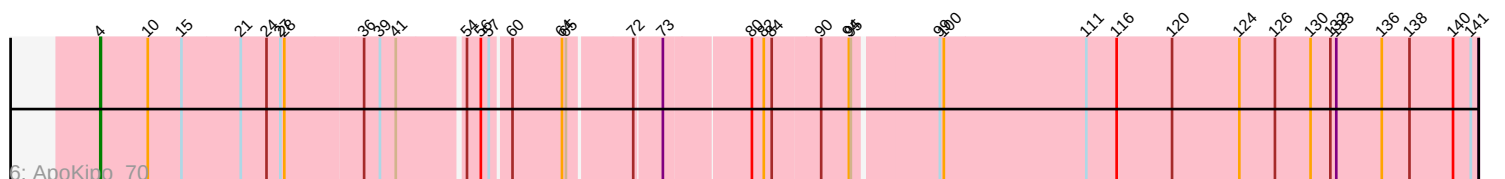
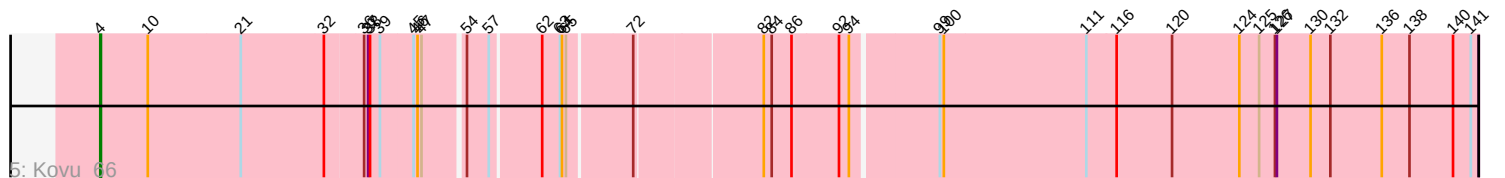
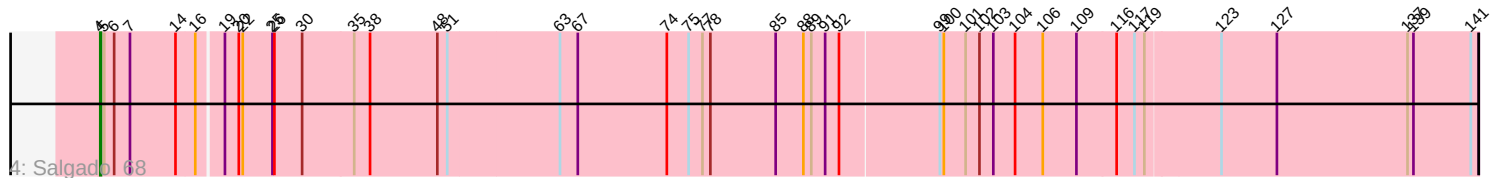
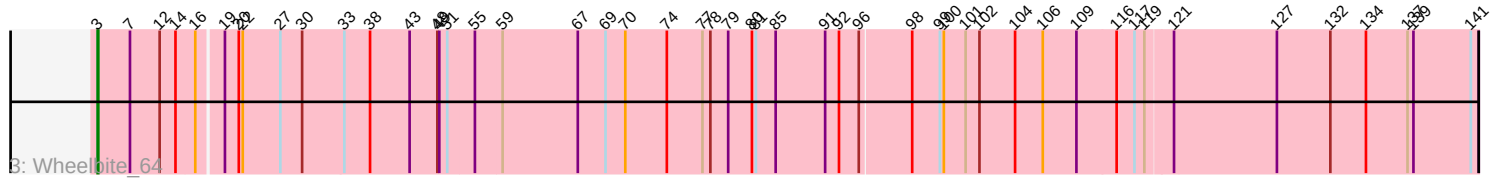
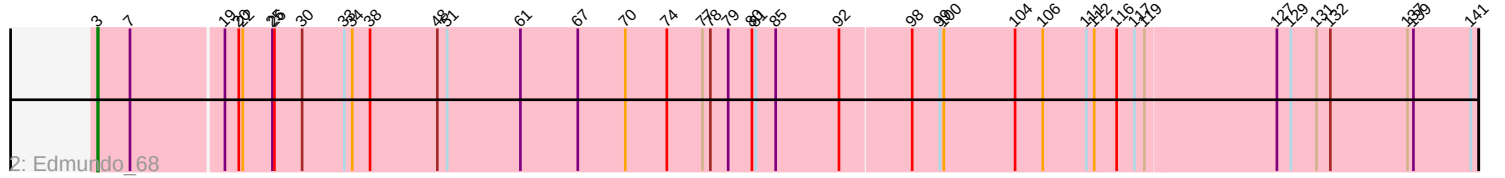
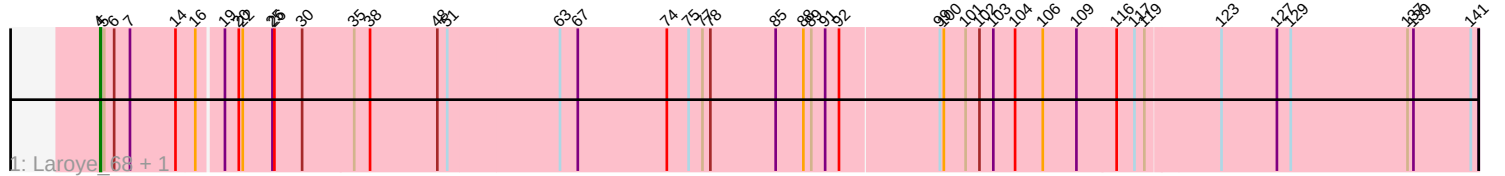


Pham 331469



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 331469 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331469 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Laroye_68, LiSara_65
- Track 2 : Edmundo_68
- Track 3 : Wheelbite_64
- Track 4 : Salgado_68
- Track 5 : Kovu_66
- Track 6 : ApoKipo_70
- Track 7 : Shrooms_66
- Track 8 : Waltz_65
- Track 9 : Ottawa_44, Kharcho_44

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 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ApoKipo_70, Kharcho_44, Kovu_66, Laroye_68, LiSara_65, Ottawa_44, Salgado_68, Shrooms_66, Waltz_65,

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

-

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

- Edmundo_68, Wheelbite_64,

Summary by start number:

Start 3:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Edmundo_68 (AL), Wheelbite_64 (AL),

Start 4:

- Found in 9 of 11 (81.8%) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo_70 (AL), Kharcho_44 (FM), Kovu_66 (AL), Laroye_68 (AL), LiSara_65 (AL), Ottawa_44 (FM), Salgado_68 (AL), Shrooms_66 (AL), Waltz_65 (AL),

Summary by clusters:

There are 2 clusters represented in this pham: AL, FM,

Info for manual annotations of cluster AL:

- Start number 3 was manually annotated 2 times for cluster AL.
- Start number 4 was manually annotated 7 times for cluster AL.

Info for manual annotations of cluster FM:

- Start number 4 was manually annotated 2 times for cluster FM.

Gene Information:

Gene: ApoKipo_70 Start: 40430, Stop: 42421, Start Num: 4

Candidate Starts for ApoKipo_70:

(Start: 4 @40430 has 9 MA's), (10, 40502), (15, 40553), (21, 40640), (24, 40679), (27, 40700), (28, 40706), (36, 40817), (39, 40841), (41, 40865), (54, 40955), (56, 40976), (57, 40988), (60, 41015), (64, 41090), (65, 41096), (72, 41186), (73, 41225), (80, 41348), (82, 41366), (84, 41378), (90, 41444), (94, 41486), (95, 41489), (99, 41609), (100, 41615), (111, 41828), (116, 41873), (120, 41957), (124, 42059), (126, 42113), (130, 42167), (132, 42197), (133, 42206), (136, 42275), (138, 42317), (140, 42383), (141, 42410),

Gene: Edmundo_68 Start: 40159, Stop: 42213, Start Num: 3

Candidate Starts for Edmundo_68:

(Start: 3 @40159 has 2 MA's), (7, 40204), (19, 40336), (20, 40357), (22, 40363), (25, 40408), (26, 40411), (30, 40453), (33, 40516), (34, 40528), (38, 40555), (48, 40657), (51, 40672), (61, 40777), (67, 40864), (70, 40936), (74, 40999), (77, 41053), (78, 41065), (79, 41092), (80, 41128), (81, 41134), (85, 41164), (92, 41260), (98, 41365), (99, 41407), (100, 41413), (104, 41521), (106, 41563), (111, 41629), (112, 41641), (116, 41674), (117, 41701), (119, 41716), (127, 41908), (129, 41929), (131, 41968), (132, 41989), (137, 42106), (139, 42115), (141, 42202),

Gene: Kharcho_44 Start: 22045, Stop: 24006, Start Num: 4

Candidate Starts for Kharcho_44:

(1, 21937), (2, 21949), (Start: 4 @22045 has 9 MA's), (8, 22111), (21, 22252), (26, 22303), (32, 22378), (41, 22477), (51, 22546), (71, 22777), (84, 22969), (92, 23056), (93, 23065), (99, 23194), (102, 23251), (107, 23350), (113, 23428), (114, 23434), (116, 23458), (127, 23701), (128, 23719),

Gene: Kovu_66 Start: 40087, Stop: 42081, Start Num: 4

Candidate Starts for Kovu_66:

(Start: 4 @40087 has 9 MA's), (10, 40159), (21, 40297), (32, 40420), (36, 40474), (37, 40480), (38, 40483), (39, 40498), (45, 40546), (46, 40549), (47, 40555), (54, 40612), (57, 40645), (62, 40717), (63, 40744), (64, 40747), (65, 40753), (72, 40843), (82, 41023), (84, 41035), (86, 41065), (92, 41131), (94, 41146), (99, 41269), (100, 41275), (111, 41488), (116, 41533), (120, 41617), (124, 41719), (125, 41749), (126, 41773), (127, 41776), (130, 41827), (132, 41857), (136, 41935), (138, 41977), (140,

42043), (141, 42070),

Gene: Laroye_68 Start: 39550, Stop: 41604, Start Num: 4

Candidate Starts for Laroye_68:

(Start: 4 @39550 has 9 MA's), (5, 39556), (6, 39571), (7, 39595), (14, 39664), (16, 39691), (19, 39727), (20, 39748), (22, 39754), (25, 39799), (26, 39802), (30, 39844), (35, 39922), (38, 39946), (48, 40048), (51, 40063), (63, 40228), (67, 40255), (74, 40390), (75, 40423), (77, 40444), (78, 40456), (85, 40555), (88, 40597), (89, 40609), (91, 40630), (92, 40651), (99, 40798), (100, 40804), (101, 40837), (102, 40858), (103, 40879), (104, 40912), (106, 40954), (109, 41005), (116, 41065), (117, 41092), (119, 41107), (123, 41215), (127, 41299), (129, 41320), (137, 41497), (139, 41506), (141, 41593),

Gene: LiSara_65 Start: 39712, Stop: 41766, Start Num: 4

Candidate Starts for LiSara_65:

(Start: 4 @39712 has 9 MA's), (5, 39718), (6, 39733), (7, 39757), (14, 39826), (16, 39853), (19, 39889), (20, 39910), (22, 39916), (25, 39961), (26, 39964), (30, 40006), (35, 40084), (38, 40108), (48, 40210), (51, 40225), (63, 40390), (67, 40417), (74, 40552), (75, 40585), (77, 40606), (78, 40618), (85, 40717), (88, 40759), (89, 40771), (91, 40792), (92, 40813), (99, 40960), (100, 40966), (101, 40999), (102, 41020), (103, 41041), (104, 41074), (106, 41116), (109, 41167), (116, 41227), (117, 41254), (119, 41269), (123, 41377), (127, 41461), (129, 41482), (137, 41659), (139, 41668), (141, 41755),

Gene: Ottawa_44 Start: 22043, Stop: 24004, Start Num: 4

Candidate Starts for Ottawa_44:

(1, 21935), (2, 21947), (Start: 4 @22043 has 9 MA's), (8, 22109), (21, 22250), (26, 22301), (32, 22376), (41, 22475), (51, 22544), (71, 22775), (84, 22967), (92, 23054), (93, 23063), (99, 23192), (102, 23249), (107, 23348), (113, 23426), (114, 23432), (116, 23456), (127, 23699), (128, 23717),

Gene: Salgado_68 Start: 39366, Stop: 41420, Start Num: 4

Candidate Starts for Salgado_68:

(Start: 4 @39366 has 9 MA's), (5, 39372), (6, 39387), (7, 39411), (14, 39480), (16, 39507), (19, 39543), (20, 39564), (22, 39570), (25, 39615), (26, 39618), (30, 39660), (35, 39738), (38, 39762), (48, 39864), (51, 39879), (63, 40044), (67, 40071), (74, 40206), (75, 40239), (77, 40260), (78, 40272), (85, 40371), (88, 40413), (89, 40425), (91, 40446), (92, 40467), (99, 40614), (100, 40620), (101, 40653), (102, 40674), (103, 40695), (104, 40728), (106, 40770), (109, 40821), (116, 40881), (117, 40908), (119, 40923), (123, 41031), (127, 41115), (137, 41313), (139, 41322), (141, 41409),

Gene: Shrooms_66 Start: 37884, Stop: 39941, Start Num: 4

Candidate Starts for Shrooms_66:

(Start: 4 @37884 has 9 MA's), (7, 37929), (14, 37998), (22, 38088), (27, 38145), (30, 38178), (33, 38241), (38, 38280), (40, 38307), (44, 38343), (48, 38382), (51, 38397), (59, 38475), (66, 38580), (67, 38589), (75, 38757), (77, 38778), (78, 38790), (83, 38877), (85, 38889), (92, 38985), (94, 39000), (98, 39090), (99, 39132), (100, 39138), (101, 39171), (102, 39192), (103, 39213), (106, 39288), (107, 39291), (115, 39396), (116, 39399), (117, 39426), (118, 39432), (119, 39441), (122, 39525), (127, 39636), (131, 39696), (134, 39771), (135, 39786), (137, 39834), (141, 39930),

Gene: Waltz_65 Start: 37882, Stop: 39954, Start Num: 4

Candidate Starts for Waltz_65:

(Start: 4 @37882 has 9 MA's), (9, 37951), (11, 37969), (13, 37990), (17, 38032), (18, 38053), (23, 38122), (29, 38167), (31, 38185), (32, 38215), (38, 38284), (42, 38326), (45, 38350), (50, 38389), (51, 38398), (52, 38416), (53, 38422), (58, 38476), (61, 38509), (65, 38578), (68, 38599), (76, 38767), (77, 38785), (78, 38797), (82, 38878), (85, 38896), (87, 38932), (88, 38938), (89, 38950), (92, 38992), (95, 39010), (97, 39076), (99, 39145), (100, 39151), (101, 39184), (102, 39205), (103, 39226), (105, 39286), (106, 39301), (107, 39304), (108, 39334), (110, 39361), (115, 39409), (116, 39412), (117, 39439), (119, 39454), (122, 39538), (127, 39649), (131, 39709), (134, 39784), (135, 39799), (137,

39847), (141, 39943),

Gene: Wheelbite_64 Start: 39523, Stop: 41577, Start Num: 3

Candidate Starts for Wheelbite_64:

(Start: 3 @39523 has 2 MA's), (7, 39568), (12, 39613), (14, 39637), (16, 39664), (19, 39700), (20, 39721), (22, 39727), (27, 39784), (30, 39817), (33, 39880), (38, 39919), (43, 39979), (48, 40021), (49, 40024), (51, 40036), (55, 40075), (59, 40114), (67, 40228), (69, 40270), (70, 40300), (74, 40363), (77, 40417), (78, 40429), (79, 40456), (80, 40492), (81, 40498), (85, 40528), (91, 40603), (92, 40624), (96, 40654), (98, 40729), (99, 40771), (100, 40777), (101, 40810), (102, 40831), (104, 40885), (106, 40927), (109, 40978), (116, 41038), (117, 41065), (119, 41080), (121, 41119), (127, 41272), (132, 41353), (134, 41407), (137, 41470), (139, 41479), (141, 41566),