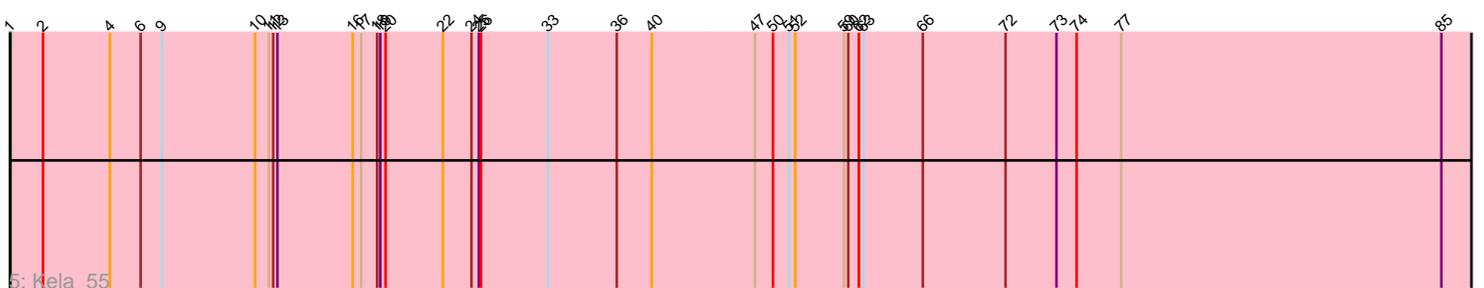
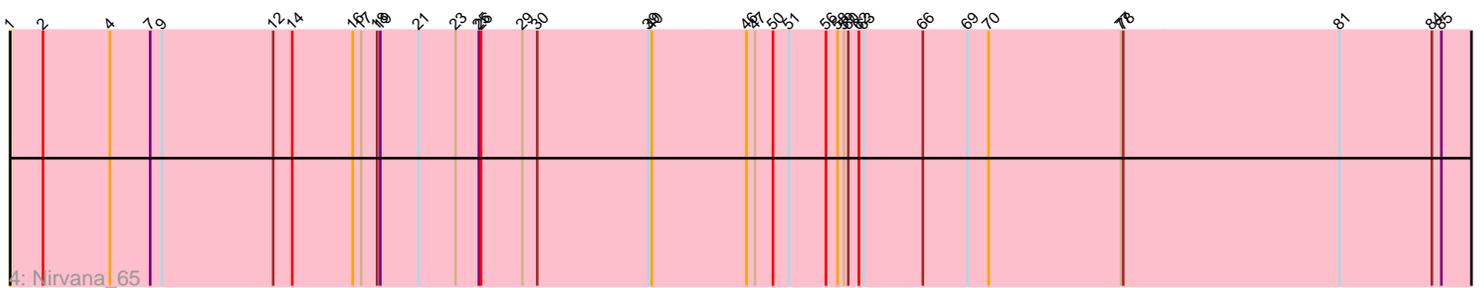
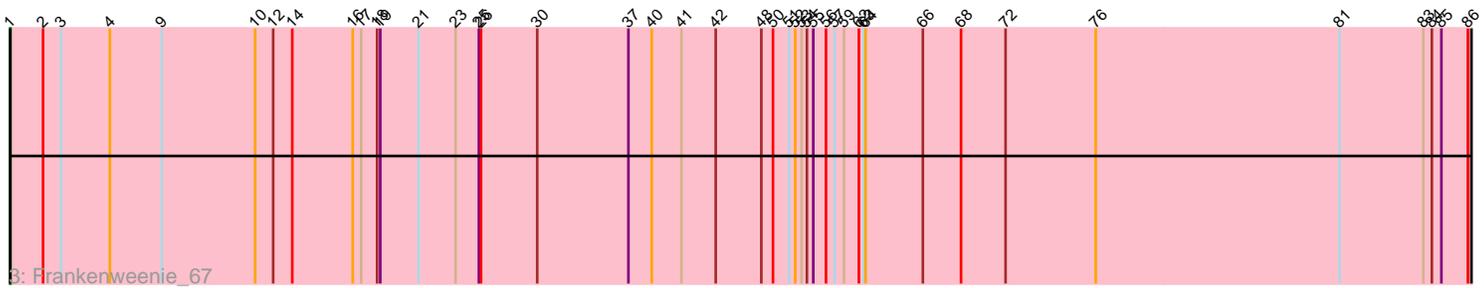
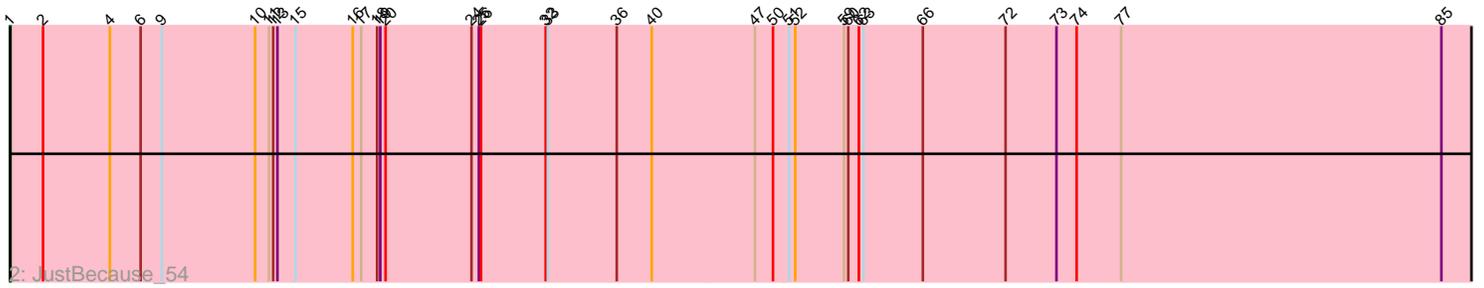
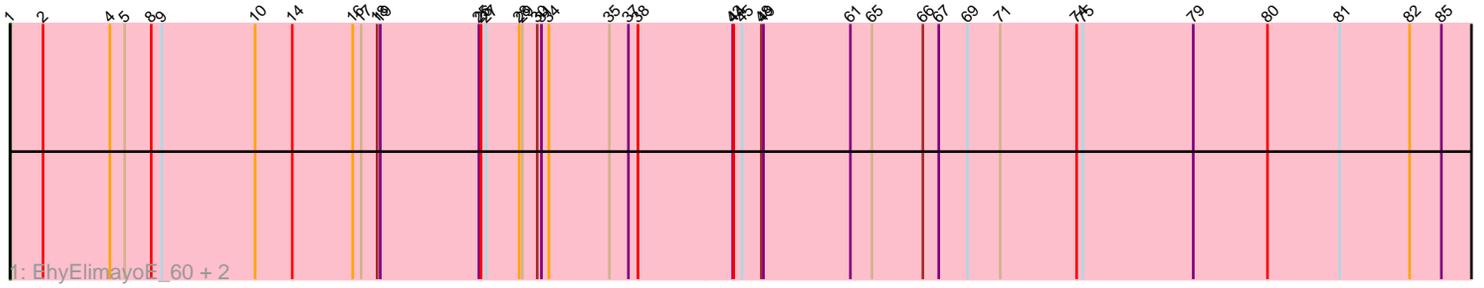


Zoomed Pham 7788



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 7788 Report

This analysis was run 03/30/24 on database version 556.

Pham number 7788 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EhyElimayoE_60, Satis_60, Kradal_60
- Track 2 : JustBecause_54
- Track 3 : Frankenweenie_67
- Track 4 : Nirvana_65
- Track 5 : Kela_55

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE_60, Frankenweenie_67, JustBecause_54, Kela_55, Kradal_60, Nirvana_65, Satis_60,

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 1:

- Found in 7 of 7 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EhyElimayoE_60 (BM), Frankenweenie_67 (BM), JustBecause_54 (BM), Kela_55 (BM), Kradal_60 (BM), Nirvana_65 (BM), Satis_60 (BM),

Summary by clusters:

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:

•Start number 1 was manually annotated 6 times for cluster BM.

Gene Information:

Gene: EhyElimayoE_60 Start: 33412, Stop: 38628, Start Num: 1

Candidate Starts for EhyElimayoE_60:

(Start: 1 @33412 has 6 MA's), (2, 33505), (4, 33694), (5, 33736), (8, 33811), (9, 33841), (10, 34105), (14, 34210), (16, 34381), (17, 34405), (18, 34450), (19, 34459), (25, 34738), (26, 34744), (27, 34759), (28, 34852), (29, 34861), (30, 34903), (31, 34915), (34, 34936), (35, 35107), (37, 35161), (38, 35188), (43, 35455), (44, 35458), (45, 35479), (48, 35533), (49, 35539), (61, 35785), (65, 35845), (66, 35989), (67, 36034), (69, 36115), (71, 36208), (74, 36424), (75, 36442), (79, 36754), (80, 36964), (81, 37168), (82, 37366), (85, 37456), (87, 37660), (89, 37777), (91, 37876), (92, 37966), (93, 37996), (94, 38053), (95, 38086), (99, 38260), (100, 38281), (101, 38284), (103, 38362), (104, 38377), (107, 38416), (109, 38443), (110, 38455), (113, 38482), (115, 38503), (118, 38533), (119, 38623),

Gene: Frankenweenie_67 Start: 36016, Stop: 41235, Start Num: 1

Candidate Starts for Frankenweenie_67:

(Start: 1 @36016 has 6 MA's), (2, 36109), (3, 36160), (4, 36298), (9, 36445), (10, 36709), (12, 36760), (14, 36814), (16, 36985), (17, 37009), (18, 37054), (19, 37063), (21, 37171), (23, 37276), (25, 37342), (26, 37348), (30, 37507), (37, 37765), (40, 37831), (41, 37915), (42, 38011), (48, 38140), (50, 38173), (51, 38215), (52, 38233), (53, 38251), (54, 38266), (55, 38284), (56, 38320), (57, 38344), (59, 38371), (62, 38413), (63, 38425), (64, 38431), (66, 38593), (68, 38701), (72, 38827), (76, 39082), (81, 39769), (83, 40006), (84, 40030), (85, 40057), (86, 40132), (88, 40300), (89, 40378), (91, 40477), (96, 40753), (98, 40849), (99, 40861), (101, 40885), (102, 40918), (105, 40990), (108, 41044), (111, 41065), (112, 41074), (113, 41089), (114, 41095), (117, 41116), (119, 41230),

Gene: JustBecause_54 Start: 30651, Stop: 35873, Start Num: 1

Candidate Starts for JustBecause_54:

(Start: 1 @30651 has 6 MA's), (2, 30744), (4, 30933), (6, 31020), (9, 31080), (10, 31344), (11, 31383), (12, 31395), (13, 31407), (15, 31458), (16, 31620), (17, 31644), (18, 31689), (19, 31698), (20, 31713), (24, 31956), (25, 31977), (26, 31983), (32, 32166), (33, 32172), (36, 32367), (40, 32466), (47, 32757), (50, 32808), (51, 32850), (52, 32868), (59, 33006), (60, 33018), (62, 33048), (63, 33060), (66, 33228), (72, 33462), (73, 33606), (74, 33663), (77, 33789), (85, 34695), (88, 34938), (89, 35016), (90, 35025), (91, 35115), (97, 35439), (99, 35499), (100, 35520), (101, 35523), (103, 35601), (104, 35616), (106, 35649), (108, 35682), (112, 35712), (117, 35754), (119, 35868),

Gene: Kela_55 Start: 30516, Stop: 35738, Start Num: 1

Candidate Starts for Kela_55:

(Start: 1 @30516 has 6 MA's), (2, 30609), (4, 30798), (6, 30885), (9, 30945), (10, 31209), (11, 31248), (12, 31260), (13, 31272), (16, 31485), (17, 31509), (18, 31554), (19, 31563), (20, 31578), (22, 31740), (24, 31821), (25, 31842), (26, 31848), (33, 32037), (36, 32232), (40, 32331), (47, 32622), (50, 32673), (51, 32715), (52, 32733), (59, 32871), (60, 32883), (62, 32913), (63, 32925), (66, 33093), (72, 33327), (73, 33471), (74, 33528), (77, 33654), (85, 34560), (88, 34803), (89, 34881), (90, 34890), (91, 34980), (97, 35304), (99, 35364), (100, 35385), (101, 35388), (103, 35466), (104, 35481), (106, 35514), (108, 35547), (112, 35577), (117, 35619), (119, 35733),

Gene: Kradal_60 Start: 33412, Stop: 38628, Start Num: 1

Candidate Starts for Kradal_60:

(Start: 1 @33412 has 6 MA's), (2, 33505), (4, 33694), (5, 33736), (8, 33811), (9, 33841), (10, 34105), (14, 34210), (16, 34381), (17, 34405), (18, 34450), (19, 34459), (25, 34738), (26, 34744), (27, 34759), (28, 34852), (29, 34861), (30, 34903), (31, 34915), (34, 34936), (35, 35107), (37, 35161), (38, 35188), (43, 35455), (44, 35458), (45, 35479), (48, 35533), (49, 35539), (61, 35785), (65, 35845), (66, 35989), (67, 36034), (69, 36115), (71, 36208), (74, 36424), (75, 36442), (79, 36754), (80, 36964), (81, 37168), (82, 37366), (85, 37456), (87, 37660), (89, 37777), (91, 37876), (92, 37966), (93, 37996), (94, 38053), (95, 38086), (99, 38260), (100, 38281), (101, 38284), (103, 38362), (104, 38377), (107, 38416), (109, 38443), (110, 38455), (113, 38482), (115, 38503), (118, 38533), (119, 38623),

Gene: Nirvana_65 Start: 35389, Stop: 40608, Start Num: 1

Candidate Starts for Nirvana_65:

(Start: 1 @35389 has 6 MA's), (2, 35482), (4, 35671), (7, 35785), (9, 35818), (12, 36133), (14, 36187), (16, 36358), (17, 36382), (18, 36427), (19, 36436), (21, 36544), (23, 36649), (25, 36715), (26, 36721), (29, 36838), (30, 36880), (39, 37195), (40, 37204), (46, 37471), (47, 37495), (50, 37546), (51, 37588), (56, 37693), (58, 37726), (59, 37744), (60, 37756), (62, 37786), (63, 37798), (66, 37966), (69, 38092), (70, 38152), (77, 38527), (78, 38533), (81, 39142), (84, 39403), (85, 39430), (88, 39673), (89, 39751), (90, 39760), (91, 39850), (96, 40126), (98, 40222), (99, 40234), (101, 40258), (103, 40336), (105, 40363), (108, 40417), (111, 40438), (113, 40462), (114, 40468), (116, 40486), (119, 40603),

Gene: Satis_60 Start: 33408, Stop: 38624, Start Num: 1

Candidate Starts for Satis_60:

(Start: 1 @33408 has 6 MA's), (2, 33501), (4, 33690), (5, 33732), (8, 33807), (9, 33837), (10, 34101), (14, 34206), (16, 34377), (17, 34401), (18, 34446), (19, 34455), (25, 34734), (26, 34740), (27, 34755), (28, 34848), (29, 34857), (30, 34899), (31, 34911), (34, 34932), (35, 35103), (37, 35157), (38, 35184), (43, 35451), (44, 35454), (45, 35475), (48, 35529), (49, 35535), (61, 35781), (65, 35841), (66, 35985), (67, 36030), (69, 36111), (71, 36204), (74, 36420), (75, 36438), (79, 36750), (80, 36960), (81, 37164), (82, 37362), (85, 37452), (87, 37656), (89, 37773), (91, 37872), (92, 37962), (93, 37992), (94, 38049), (95, 38082), (99, 38256), (100, 38277), (101, 38280), (103, 38358), (104, 38373), (107, 38412), (109, 38439), (110, 38451), (113, 38478), (115, 38499), (118, 38529), (119, 38619),