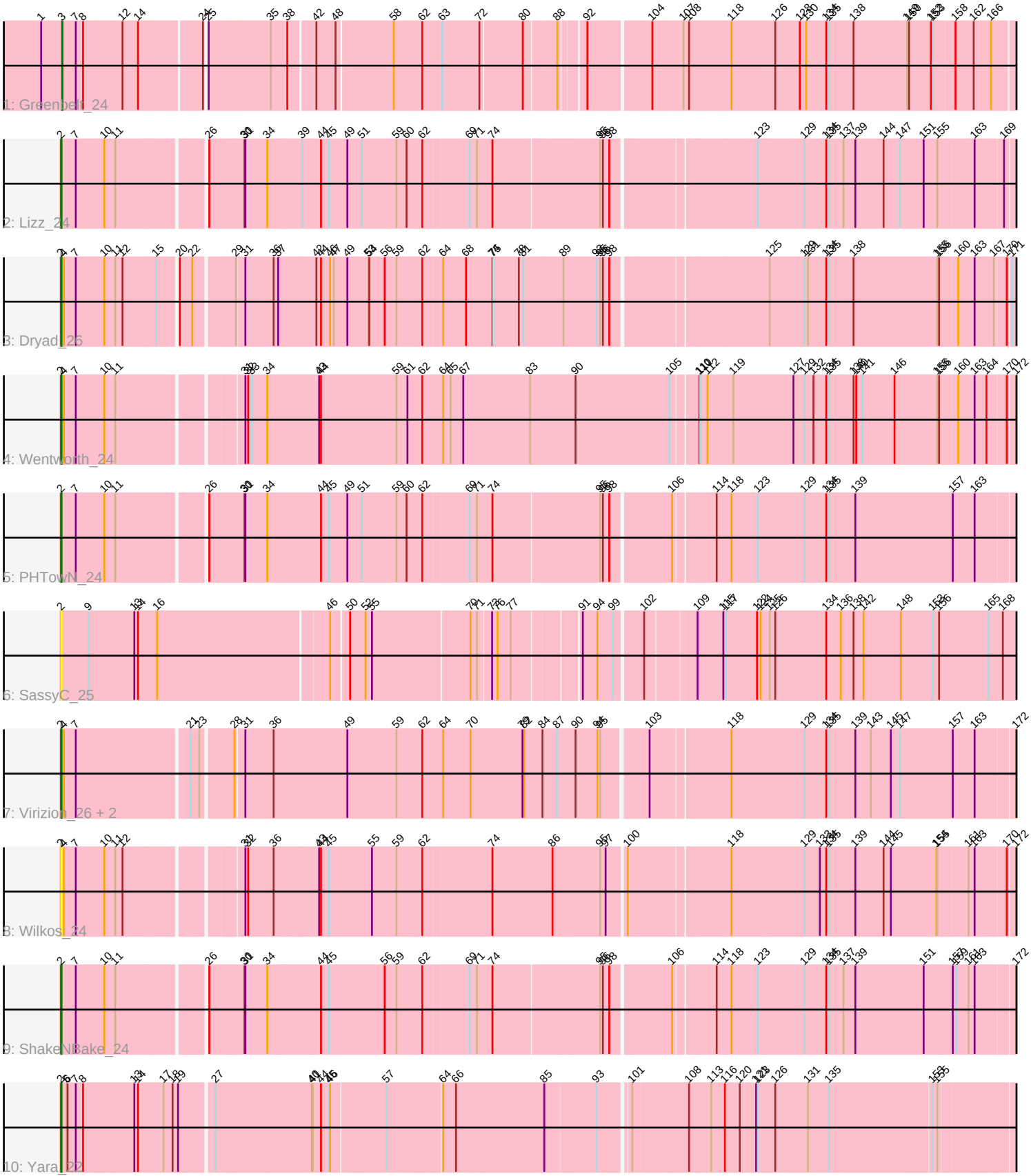
# Zoomed Pham 348215



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 348215 Report

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

Pham number 348215 has 12 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Greenbelt_24
• Track 2 : Lizz_24
• Track 3 : Dryad_26
• Track 4 : Wentworth_24
• Track 5 : PHTowN_24
• Track 6 : SassyC_25
• Track 7 : Virizion_26, Gibson_24, Rooney_24
• Track 8 : Wilkos_24
• Track 9 : ShakeNBake_24
• Track 10 : Yara_22

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

Genes that call this "Most Annotated" start:
• Dryad_26, Gibson_24, Lizz_24, PHTowN_24, Rooney_24, SassyC_25, ShakeNBake_24, Virizion_26, Wentworth_24, Wilkos_24, Yara_22,

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

Genes that do not have the "Most Annotated" start:
• Greenbelt_24,

**Summary by start number:**

Start 2:
• Found in 11 of 12 ( 91.7% ) of genes in pham
• Manual Annotations of this start: 8 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_26 (BN), Gibson_24 (BN), Lizz_24 (BN), PHTowN_24 (BN), Rooney_24 (BN), SassyC_25 (BN),

ShakeNBake_24 (BN), Virizion_26 (BN), Wentworth_24 (BN), Wilkos_24 (BN), Yara_22 (BN),

Start 3:
• Found in 1 of 12 ( 8.3% ) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_24 (BN),

**Summary by clusters:**

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:
•Start number 2 was manually annotated 8 times for cluster BN.
•Start number 3 was manually annotated 1 time for cluster BN.

***Gene Information:***

Gene: Dryad_26 Start: 14984, Stop: 18892, Start Num: 2
Candidate Starts for Dryad_26:
(Start: 2 @14984 has 8 MA's), (4, 14993), (7, 15032), (10, 15119), (11, 15155), (12, 15179), (15, 15281), (20, 15341), (22, 15380), (29, 15494), (31, 15518), (36, 15611), (37, 15626), (42, 15743), (44, 15758), (46, 15788), (47, 15800), (49, 15845), (53, 15911), (54, 15914), (56, 15965), (59, 16004), (62, 16082), (64, 16139), (68, 16214), (74, 16295), (75, 16298), (78, 16382), (81, 16397), (89, 16517), (93, 16622), (95, 16634), (96, 16643), (98, 16664), (125, 17135), (129, 17249), (131, 17261), (134, 17321), (135, 17330), (138, 17411), (155, 17684), (156, 17690), (160, 17741), (163, 17792), (167, 17846), (170, 17882), (171, 17891), (173, 17906), (177, 17963), (179, 18014), (183, 18050), (191, 18152), (194, 18182), (199, 18302), (204, 18374), (205, 18380), (214, 18581), (215, 18590), (222, 18758), (223, 18785), (226, 18842), (230, 18881), (231, 18887),

Gene: Gibson_24 Start: 14554, Stop: 18495, Start Num: 2
Candidate Starts for Gibson_24:
(Start: 2 @14554 has 8 MA's), (4, 14563), (7, 14602), (21, 14944), (23, 14971), (28, 15064), (31, 15091), (36, 15184), (49, 15418), (59, 15577), (62, 15655), (64, 15724), (70, 15814), (79, 15985), (82, 15991), (84, 16045), (87, 16093), (90, 16153), (94, 16225), (95, 16234), (103, 16372), (118, 16615), (129, 16852), (134, 16924), (135, 16933), (139, 17020), (143, 17071), (145, 17137), (147, 17167), (157, 17326), (163, 17395), (172, 17506), (173, 17509), (174, 17530), (177, 17566), (189, 17737), (190, 17746), (193, 17770), (194, 17785), (196, 17845), (203, 17971), (209, 18097), (211, 18145), (214, 18184), (216, 18205), (222, 18361), (231, 18490),

Gene: Greenbelt_24 Start: 14882, Stop: 18262, Start Num: 3
Candidate Starts for Greenbelt_24:
(1, 14813), (Start: 3 @14882 has 1 MA's), (7, 14927), (8, 14951), (12, 15074), (14, 15125), (24, 15311), (25, 15314), (35, 15509), (38, 15557), (42, 15629), (48, 15692), (58, 15869), (62, 15956), (63, 16013), (72, 16133), (80, 16265), (88, 16361), (92, 16430), (104, 16619), (107, 16712), (108, 16724), (118, 16862), (126, 17000), (128, 17081), (130, 17102), (134, 17168), (135, 17177), (138, 17258), (149, 17429), (150, 17435), (152, 17504), (153, 17510), (158, 17576), (162, 17633), (166, 17687), (173, 17756), (185, 17888), (190, 17975), (195, 18062), (198, 18119), (201, 18161), (202, 18200),

Gene: Lizz_24 Start: 14470, Stop: 18393, Start Num: 2

Candidate Starts for Lizz_24:
(Start: 2 @14470 has 8 MA's), (7, 14518), (10, 14605), (11, 14641), (26, 14902), (30, 15013), (31, 15016), (34, 15088), (39, 15199), (44, 15259), (45, 15286), (49, 15346), (51, 15391), (59, 15505), (60, 15538), (62, 15583), (69, 15727), (71, 15751), (74, 15796), (95, 16129), (96, 16138), (98, 16159), (123, 16600), (129, 16750), (134, 16822), (135, 16831), (137, 16879), (139, 16918), (144, 17011), (147, 17065), (151, 17143), (155, 17185), (163, 17293), (169, 17374), (173, 17407), (177, 17464), (189, 17635), (190, 17644), (193, 17668), (196, 17743), (200, 17809), (201, 17824), (205, 17881), (209, 17995), (214, 18082), (220, 18178), (222, 18259), (223, 18286), (225, 18307), (231, 18388),

Gene: PHTowN_24 Start: 14470, Stop: 18393, Start Num: 2
Candidate Starts for PHTowN_24:
(Start: 2 @14470 has 8 MA's), (7, 14518), (10, 14605), (11, 14641), (26, 14902), (30, 15013), (31, 15016), (34, 15088), (44, 15259), (45, 15286), (49, 15346), (51, 15391), (59, 15505), (60, 15538), (62, 15583), (69, 15727), (71, 15751), (74, 15796), (95, 16129), (96, 16138), (98, 16159), (106, 16339), (114, 16465), (118, 16513), (123, 16600), (129, 16750), (134, 16822), (135, 16831), (139, 16918), (157, 17224), (163, 17293), (173, 17407), (174, 17428), (177, 17464), (189, 17635), (190, 17644), (193, 17668), (196, 17743), (200, 17809), (201, 17824), (205, 17881), (209, 17995), (214, 18082), (222, 18259), (225, 18307), (231, 18388),

Gene: Rooney_24 Start: 14551, Stop: 18492, Start Num: 2
Candidate Starts for Rooney_24:
(Start: 2 @14551 has 8 MA's), (4, 14560), (7, 14599), (21, 14941), (23, 14968), (28, 15061), (31, 15088), (36, 15181), (49, 15415), (59, 15574), (62, 15652), (64, 15721), (70, 15811), (79, 15982), (82, 15988), (84, 16042), (87, 16090), (90, 16150), (94, 16222), (95, 16231), (103, 16369), (118, 16612), (129, 16849), (134, 16921), (135, 16930), (139, 17017), (143, 17068), (145, 17134), (147, 17164), (157, 17323), (163, 17392), (172, 17503), (173, 17506), (174, 17527), (177, 17563), (189, 17734), (190, 17743), (193, 17767), (194, 17782), (196, 17842), (203, 17968), (209, 18094), (211, 18142), (214, 18181), (216, 18202), (222, 18358), (231, 18487),

Gene: SassyC_25 Start: 14318, Stop: 18250, Start Num: 2
Candidate Starts for SassyC_25:
(Start: 2 @14318 has 8 MA's), (9, 14408), (13, 14552), (14, 14564), (16, 14621), (46, 15149), (50, 15203), (52, 15251), (55, 15272), (70, 15566), (71, 15587), (73, 15626), (76, 15644), (77, 15686), (91, 15875), (94, 15917), (99, 15959), (102, 16046), (109, 16190), (115, 16274), (117, 16283), (122, 16385), (124, 16394), (125, 16424), (126, 16442), (134, 16610), (136, 16658), (138, 16700), (142, 16733), (148, 16856), (153, 16958), (156, 16979), (165, 17141), (168, 17189), (178, 17309), (180, 17354), (184, 17399), (187, 17441), (192, 17498), (204, 17726), (208, 17813), (210, 17870), (212, 17921), (213, 17924), (224, 18152), (225, 18161),

Gene: ShakeNBake_24 Start: 14470, Stop: 18393, Start Num: 2
Candidate Starts for ShakeNBake_24:
(Start: 2 @14470 has 8 MA's), (7, 14518), (10, 14605), (11, 14641), (26, 14902), (30, 15013), (31, 15016), (34, 15088), (44, 15259), (45, 15286), (56, 15466), (59, 15505), (62, 15583), (69, 15727), (71, 15751), (74, 15796), (95, 16129), (96, 16138), (98, 16159), (106, 16339), (114, 16465), (118, 16513), (123, 16600), (129, 16750), (134, 16822), (135, 16831), (137, 16879), (139, 16918), (151, 17143), (157, 17224), (159, 17236), (161, 17275), (163, 17293), (172, 17404), (173, 17407), (174, 17428), (177, 17464), (189, 17635), (190, 17644), (193, 17668), (196, 17743), (200, 17809), (201, 17824), (205, 17881), (209, 17995), (214, 18082), (222, 18259), (225, 18307), (231, 18388),

Gene: Virizion_26 Start: 14784, Stop: 18725, Start Num: 2
Candidate Starts for Virizion_26:
(Start: 2 @14784 has 8 MA's), (4, 14793), (7, 14832), (21, 15174), (23, 15201), (28, 15294), (31, 15321), (36, 15414), (49, 15648), (59, 15807), (62, 15885), (64, 15954), (70, 16044), (79, 16215), (82,

16221), (84, 16275), (87, 16323), (90, 16383), (94, 16455), (95, 16464), (103, 16602), (118, 16845), (129, 17082), (134, 17154), (135, 17163), (139, 17250), (143, 17301), (145, 17367), (147, 17397), (157, 17556), (163, 17625), (172, 17736), (173, 17739), (174, 17760), (177, 17796), (189, 17967), (190, 17976), (193, 18000), (194, 18015), (196, 18075), (203, 18201), (209, 18327), (211, 18375), (214, 18414), (216, 18435), (222, 18591), (231, 18720),

Gene: Wentworth_24 Start: 14248, Stop: 18210, Start Num: 2
Candidate Starts for Wentworth_24:
(Start: 2 @14248 has 8 MA's), (4, 14257), (7, 14296), (10, 14383), (11, 14419), (31, 14782), (32, 14791), (33, 14803), (34, 14854), (43, 15016), (44, 15022), (59, 15271), (61, 15307), (62, 15349), (64, 15412), (65, 15436), (67, 15478), (83, 15697), (90, 15844), (105, 16153), (110, 16225), (111, 16228), (112, 16252), (119, 16336), (127, 16531), (129, 16567), (132, 16597), (134, 16639), (135, 16648), (138, 16729), (140, 16738), (141, 16759), (146, 16864), (155, 17002), (156, 17008), (160, 17059), (163, 17110), (164, 17140), (170, 17200), (172, 17221), (173, 17224), (174, 17245), (177, 17281), (181, 17341), (182, 17362), (189, 17452), (190, 17461), (200, 17626), (203, 17686), (204, 17692), (205, 17698), (209, 17812), (214, 17899), (218, 17980), (226, 18160), (227, 18178), (228, 18187), (231, 18205),

Gene: Wilkos_24 Start: 14417, Stop: 18340, Start Num: 2
Candidate Starts for Wilkos_24:
(Start: 2 @14417 has 8 MA's), (4, 14426), (7, 14465), (10, 14552), (11, 14588), (12, 14612), (31, 14951), (32, 14960), (36, 15044), (43, 15185), (44, 15191), (45, 15218), (55, 15359), (59, 15440), (62, 15518), (74, 15731), (86, 15926), (95, 16076), (97, 16094), (100, 16148), (118, 16460), (129, 16697), (133, 16748), (134, 16769), (135, 16778), (139, 16865), (144, 16958), (145, 16982), (154, 17129), (155, 17132), (161, 17222), (163, 17240), (170, 17330), (172, 17351), (173, 17354), (174, 17375), (177, 17411), (181, 17471), (190, 17591), (193, 17615), (194, 17630), (200, 17756), (204, 17822), (205, 17828), (209, 17942), (214, 18029), (216, 18050), (222, 18206), (226, 18290), (231, 18335),

Gene: Yara_22 Start: 13893, Stop: 18437, Start Num: 2
Candidate Starts for Yara_22:
(Start: 2 @13893 has 8 MA's), (5, 13911), (6, 13914), (7, 13941), (8, 13965), (13, 14127), (14, 14139), (17, 14223), (18, 14253), (19, 14271), (27, 14376), (40, 14688), (41, 14691), (44, 14718), (45, 14745), (46, 14748), (57, 14922), (64, 15096), (66, 15138), (85, 15423), (93, 15582), (101, 15669), (108, 15849), (113, 15921), (116, 15966), (120, 16014), (121, 16068), (123, 16074), (126, 16125), (131, 16233), (135, 16302), (153, 16629), (155, 16644), (175, 16905), (176, 16923), (186, 17031), (188, 17073), (194, 17136), (197, 17205), (199, 17256), (203, 17325), (206, 17352), (207, 17397), (217, 17571), (219, 17625), (221, 17634), (229, 17826), (232, 17904), (233, 17916), (234, 17937), (235, 18036), (236, 18057), (237, 18174), (238, 18189), (239, 18219), (240, 18291), (241, 18300), (242, 18375),