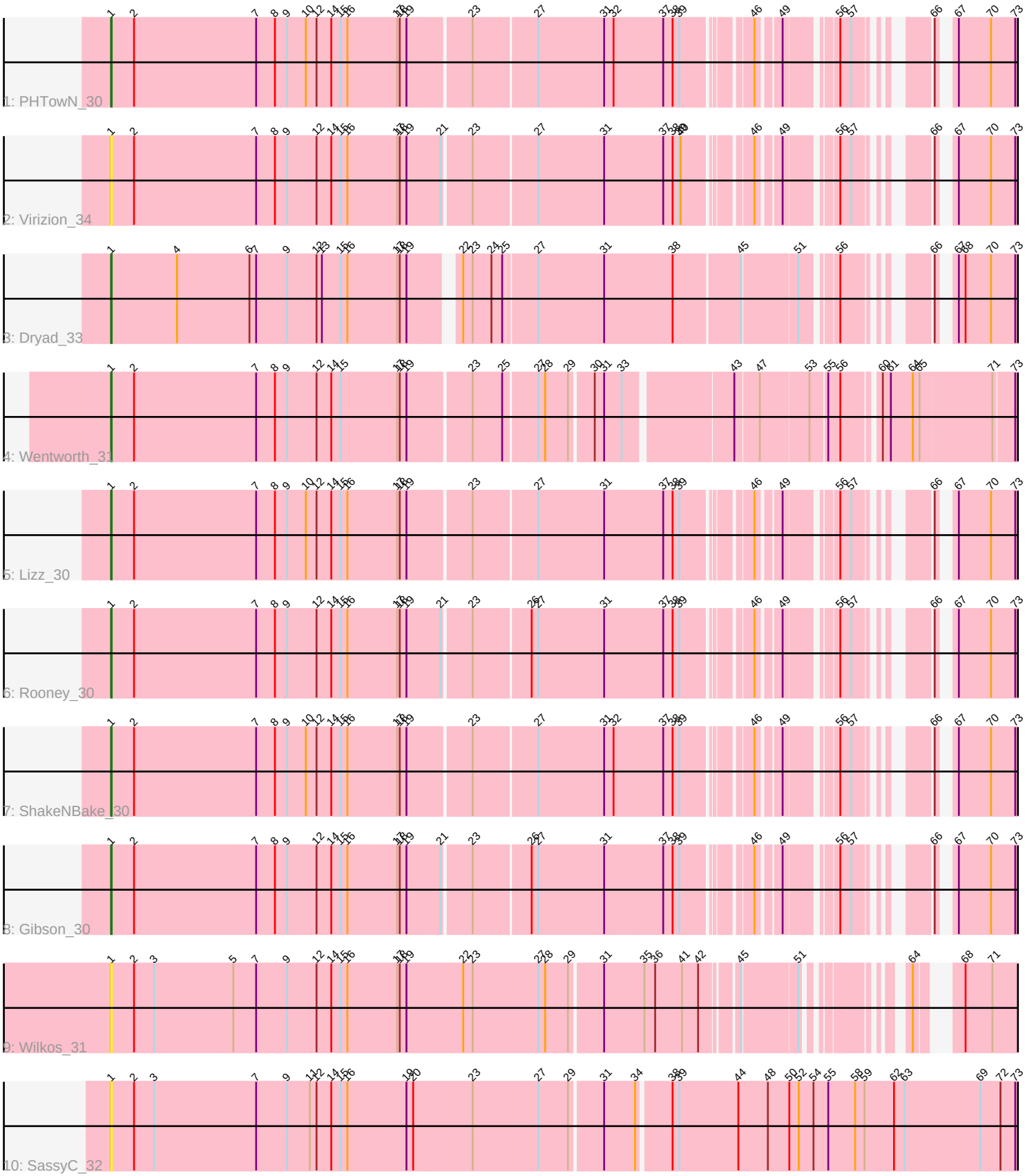
Zoomed Pham 346390



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 346390 Report

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

Pham number 346390 has 10 members, 3 are drafts.

Phages represented in each track:
• Track 1 : PHTowN_30
• Track 2 : Virizion_34
• Track 3 : Dryad_33
• Track 4 : Wentworth_31
• Track 5 : Lizz_30
• Track 6 : Rooney_30
• Track 7 : ShakeNBake_30
• Track 8 : Gibson_30
• Track 9 : Wilkos_31
• Track 10 : SassyC_32

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 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_33, Gibson_30, Lizz_30, PHTowN_30, Rooney_30, SassyC_32, ShakeNBake_30, Virizion_34, Wentworth_31, Wilkos_31,

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 10 of 10 (100.0%) of genes in pham
• Manual Annotations of this start: 7 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_33 (BN), Gibson_30 (BN), Lizz_30 (BN), PHTowN_30 (BN), Rooney_30 (BN), SassyC_32 (BN),

ShakeNBake_30 (BN), Virizion_34 (BN), Wentworth_31 (BN), Wilkos_31 (BN),

Summary by clusters:

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:
•Start number 1 was manually annotated 7 times for cluster BN.

Gene Information:

Gene: Dryad_33 Start: 21900, Stop: 25520, Start Num: 1
Candidate Starts for Dryad_33:
(Start: 1 @21900 has 7 MA's), (4, 22047), (6, 22209), (7, 22224), (9, 22293), (12, 22359), (13, 22371), (15, 22413), (16, 22428), (17, 22539), (18, 22545), (19, 22560), (22, 22650), (23, 22671), (24, 22713), (25, 22737), (27, 22806), (31, 22953), (38, 23103), (45, 23247), (51, 23358), (56, 23415), (66, 23535), (67, 23556), (68, 23571), (70, 23628), (73, 23682), (80, 23772), (81, 23775), (84, 23826), (86, 23859), (87, 23880), (92, 23940), (95, 23976), (101, 24069), (103, 24105), (106, 24123), (109, 24183), (113, 24237), (114, 24246), (117, 24285), (118, 24315), (119, 24321), (121, 24342), (133, 24495), (138, 24594), (141, 24681), (142, 24702), (143, 24714), (152, 25005), (159, 25062), (160, 25086), (168, 25248), (170, 25293), (173, 25374), (174, 25407),

Gene: Gibson_30 Start: 21069, Stop: 25262, Start Num: 1
Candidate Starts for Gibson_30:
(Start: 1 @21069 has 7 MA's), (2, 21120), (7, 21393), (8, 21435), (9, 21462), (12, 21528), (14, 21561), (15, 21582), (16, 21597), (17, 21708), (18, 21714), (19, 21729), (21, 21804), (23, 21864), (26, 21984), (27, 21999), (31, 22146), (37, 22272), (38, 22293), (39, 22308), (46, 22428), (49, 22464), (56, 22551), (57, 22575), (66, 22671), (67, 22692), (70, 22764), (73, 22818), (74, 22842), (75, 22863), (82, 23010), (88, 23154), (91, 23202), (92, 23208), (93, 23217), (96, 23250), (98, 23271), (99, 23289), (100, 23307), (107, 23418), (108, 23454), (110, 23478), (116, 23565), (118, 23649), (119, 23655), (123, 23706), (124, 23718), (127, 23748), (128, 23766), (130, 23826), (134, 23895), (135, 23925), (137, 23988), (139, 24072), (141, 24138), (144, 24219), (145, 24222), (146, 24273), (147, 24321), (149, 24390), (153, 24594), (154, 24597), (156, 24621), (158, 24651), (163, 24849), (168, 24990), (171, 25053),

Gene: Lizz_30 Start: 20878, Stop: 25071, Start Num: 1
Candidate Starts for Lizz_30:
(Start: 1 @20878 has 7 MA's), (2, 20929), (7, 21202), (8, 21244), (9, 21271), (10, 21313), (12, 21337), (14, 21370), (15, 21391), (16, 21406), (17, 21517), (18, 21523), (19, 21538), (23, 21673), (27, 21808), (31, 21955), (37, 22081), (38, 22102), (39, 22117), (46, 22237), (49, 22273), (56, 22360), (57, 22384), (66, 22480), (67, 22501), (70, 22573), (73, 22627), (74, 22651), (75, 22672), (78, 22714), (82, 22819), (88, 22963), (91, 23011), (93, 23026), (96, 23059), (98, 23080), (100, 23116), (107, 23227), (108, 23263), (110, 23287), (116, 23374), (118, 23458), (119, 23464), (123, 23515), (124, 23527), (127, 23557), (128, 23575), (130, 23635), (137, 23797), (139, 23881), (140, 23896), (144, 24028), (146, 24082), (147, 24130), (149, 24199), (153, 24403), (154, 24406), (156, 24430), (158, 24460), (161, 24598), (164, 24760), (171, 24862), (175, 24988),

Gene: PHTowN_30 Start: 20876, Stop: 25069, Start Num: 1
Candidate Starts for PHTowN_30:
(Start: 1 @20876 has 7 MA's), (2, 20927), (7, 21200), (8, 21242), (9, 21269), (10, 21311), (12, 21335), (14, 21368), (15, 21389), (16, 21404), (17, 21515), (18, 21521), (19, 21536), (23, 21671), (27, 21806), (31, 21953), (32, 21971), (37, 22079), (38, 22100), (39, 22115), (46, 22235), (49, 22271), (56, 22358),

(57, 22382), (66, 22478), (67, 22499), (70, 22571), (73, 22625), (75, 22670), (82, 22817), (84, 22883), (89, 22982), (92, 23015), (94, 23048), (96, 23057), (98, 23078), (99, 23096), (108, 23261), (110, 23285), (111, 23309), (119, 23462), (123, 23513), (124, 23525), (125, 23534), (126, 23543), (127, 23555), (131, 23651), (137, 23795), (139, 23879), (140, 23894), (144, 24026), (146, 24080), (147, 24128), (153, 24401), (154, 24404), (156, 24428), (161, 24596), (164, 24758), (171, 24860), (175, 24986),

Gene: Rooney_30 Start: 21066, Stop: 25259, Start Num: 1
Candidate Starts for Rooney_30:
(Start: 1 @21066 has 7 MA's), (2, 21117), (7, 21390), (8, 21432), (9, 21459), (12, 21525), (14, 21558), (15, 21579), (16, 21594), (17, 21705), (18, 21711), (19, 21726), (21, 21801), (23, 21861), (26, 21981), (27, 21996), (31, 22143), (37, 22269), (38, 22290), (39, 22305), (46, 22425), (49, 22461), (56, 22548), (57, 22572), (66, 22668), (67, 22689), (70, 22761), (73, 22815), (74, 22839), (75, 22860), (82, 23007), (88, 23151), (91, 23199), (92, 23205), (93, 23214), (96, 23247), (98, 23268), (99, 23286), (100, 23304), (107, 23415), (108, 23451), (110, 23475), (116, 23562), (118, 23646), (119, 23652), (124, 23715), (127, 23745), (128, 23763), (130, 23823), (134, 23892), (135, 23922), (137, 23985), (139, 24069), (141, 24135), (144, 24216), (145, 24219), (146, 24270), (147, 24318), (149, 24387), (153, 24591), (154, 24594), (156, 24618), (158, 24648), (163, 24846), (168, 24987), (171, 25050),

Gene: SassyC_32 Start: 21194, Stop: 25639, Start Num: 1
Candidate Starts for SassyC_32:
(Start: 1 @21194 has 7 MA's), (2, 21245), (3, 21290), (7, 21518), (9, 21587), (11, 21638), (12, 21653), (14, 21683), (15, 21704), (16, 21719), (19, 21851), (20, 21866), (23, 21998), (27, 22145), (29, 22211), (31, 22280), (34, 22346), (38, 22415), (39, 22430), (44, 22562), (48, 22628), (50, 22676), (52, 22697), (54, 22730), (55, 22763), (58, 22823), (59, 22844), (62, 22910), (63, 22934), (69, 23102), (72, 23147), (73, 23180), (75, 23228), (76, 23264), (77, 23285), (79, 23351), (83, 23570), (84, 23624), (85, 23660), (90, 23726), (93, 23765), (97, 23804), (98, 23819), (102, 23930), (105, 23951), (110, 24026), (115, 24104), (116, 24113), (118, 24197), (120, 24221), (132, 24425), (139, 24620), (142, 24734), (144, 24767), (146, 24821), (148, 24878), (150, 24977), (151, 25010), (165, 25343), (171, 25430), (173, 25493), (176, 25574),

Gene: ShakeNBake_30 Start: 20894, Stop: 25087, Start Num: 1
Candidate Starts for ShakeNBake_30:
(Start: 1 @20894 has 7 MA's), (2, 20945), (7, 21218), (8, 21260), (9, 21287), (10, 21329), (12, 21353), (14, 21386), (15, 21407), (16, 21422), (17, 21533), (18, 21539), (19, 21554), (23, 21689), (27, 21824), (31, 21971), (32, 21989), (37, 22097), (38, 22118), (39, 22133), (46, 22253), (49, 22289), (56, 22376), (57, 22400), (66, 22496), (67, 22517), (70, 22589), (73, 22643), (74, 22667), (75, 22688), (82, 22835), (92, 23033), (96, 23075), (98, 23096), (99, 23114), (100, 23132), (107, 23243), (108, 23279), (110, 23303), (116, 23390), (118, 23474), (119, 23480), (123, 23531), (124, 23543), (127, 23573), (128, 23591), (129, 23648), (137, 23813), (139, 23897), (140, 23912), (144, 24044), (146, 24098), (147, 24146), (149, 24215), (153, 24419), (154, 24422), (156, 24446), (161, 24614), (164, 24776), (171, 24878), (175, 25004),

Gene: Virizion_34 Start: 21265, Stop: 25458, Start Num: 1
Candidate Starts for Virizion_34:
(Start: 1 @21265 has 7 MA's), (2, 21316), (7, 21589), (8, 21631), (9, 21658), (12, 21724), (14, 21757), (15, 21778), (16, 21793), (17, 21904), (18, 21910), (19, 21925), (21, 22000), (23, 22060), (27, 22195), (31, 22342), (37, 22468), (38, 22489), (39, 22504), (40, 22507), (46, 22624), (49, 22660), (56, 22747), (57, 22771), (66, 22867), (67, 22888), (70, 22960), (73, 23014), (74, 23038), (75, 23059), (82, 23206), (88, 23350), (91, 23398), (92, 23404), (93, 23413), (96, 23446), (98, 23467), (99, 23485), (100, 23503), (107, 23614), (108, 23650), (110, 23674), (116, 23761), (118, 23845), (119, 23851), (124, 23914), (127, 23944), (128, 23962), (130, 24022), (134, 24091), (135, 24121), (137, 24184), (139, 24268), (141, 24334), (144, 24415), (145, 24418), (146, 24469), (147, 24517), (149, 24586), (153, 24790),

(154, 24793), (156, 24817), (158, 24847), (163, 25045), (168, 25186), (171, 25249),

Gene: Wentworth_31 Start: 21239, Stop: 25570, Start Num: 1
Candidate Starts for Wentworth_31:
(Start: 1 @21239 has 7 MA's), (2, 21290), (7, 21563), (8, 21605), (9, 21632), (12, 21698), (14, 21731), (15, 21752), (17, 21878), (18, 21884), (19, 21899), (23, 22034), (25, 22100), (27, 22169), (28, 22184), (29, 22235), (30, 22283), (31, 22304), (33, 22340), (43, 22562), (47, 22610), (53, 22712), (55, 22745), (56, 22772), (60, 22841), (61, 22859), (64, 22907), (65, 22922), (71, 23081), (73, 23126), (75, 23171), (82, 23318), (89, 23483), (92, 23516), (94, 23549), (96, 23558), (104, 23702), (107, 23726), (110, 23786), (118, 23957), (119, 23963), (122, 24005), (123, 24014), (124, 24026), (127, 24056), (128, 24074), (137, 24296), (139, 24380), (146, 24581), (147, 24629), (152, 24884), (155, 24926), (156, 24929), (158, 24959), (162, 25130), (163, 25157), (166, 25283), (167, 25286), (168, 25298), (171, 25361), (172, 25370),

Gene: Wilkos_31 Start: 21152, Stop: 25372, Start Num: 1
Candidate Starts for Wilkos_31:
(Start: 1 @21152 has 7 MA's), (2, 21203), (3, 21248), (5, 21425), (7, 21476), (9, 21545), (12, 21611), (14, 21644), (15, 21665), (16, 21680), (17, 21791), (18, 21797), (19, 21812), (22, 21938), (23, 21959), (27, 22106), (28, 22121), (29, 22172), (31, 22241), (35, 22328), (36, 22352), (41, 22412), (42, 22448), (45, 22514), (51, 22625), (64, 22760), (68, 22817), (71, 22877), (75, 22973), (76, 23006), (82, 23120), (89, 23285), (92, 23318), (108, 23564), (110, 23588), (111, 23612), (112, 23624), (118, 23759), (119, 23765), (122, 23807), (123, 23816), (124, 23828), (127, 23858), (128, 23876), (136, 24038), (137, 24098), (139, 24182), (141, 24248), (142, 24296), (144, 24329), (146, 24383), (148, 24440), (151, 24572), (153, 24704), (156, 24731), (157, 24749), (162, 24932), (166, 25085), (169, 25118), (171, 25163), (173, 25226), (174, 25259),