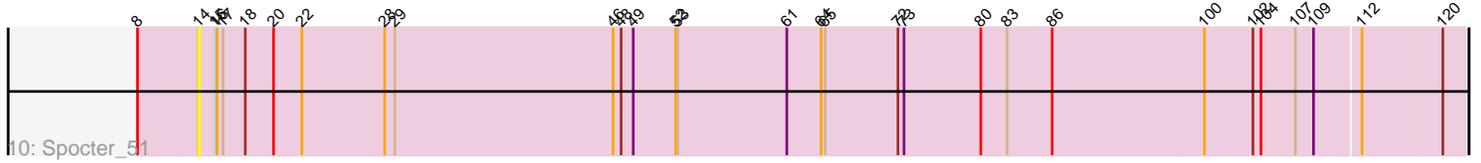
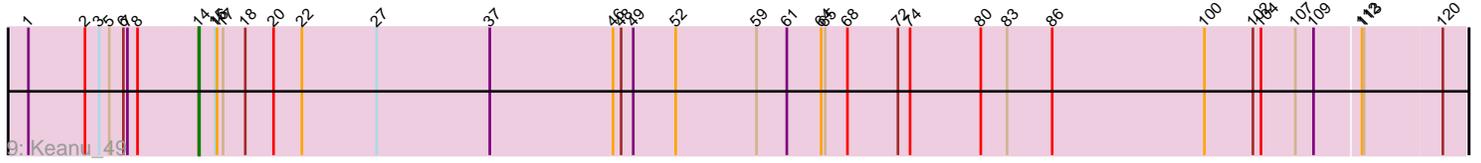
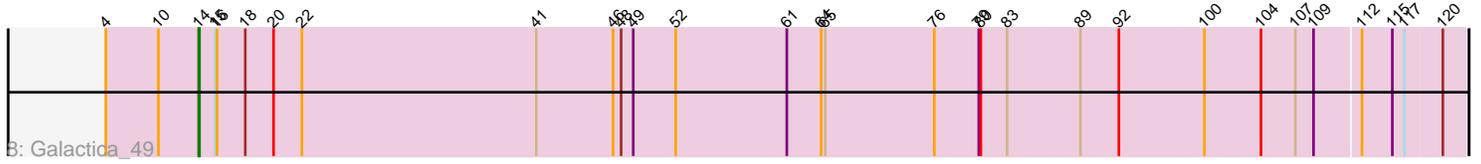
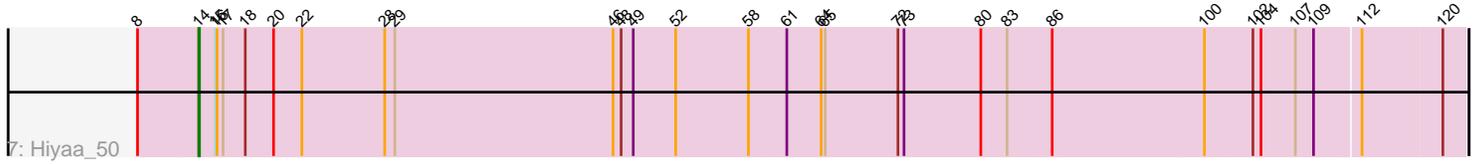
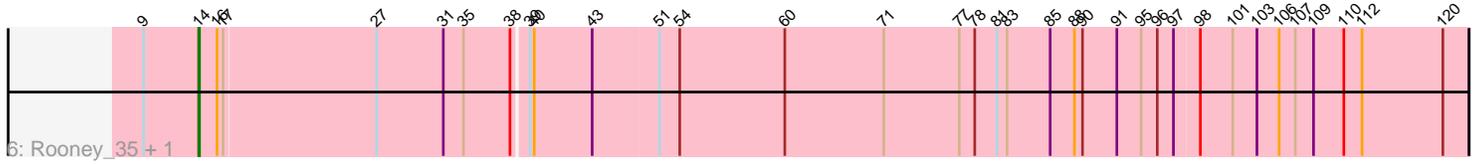
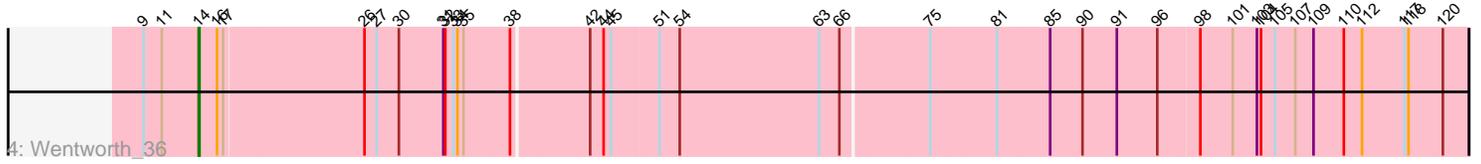
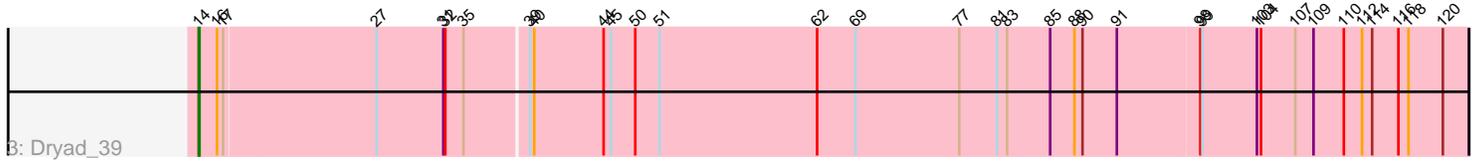
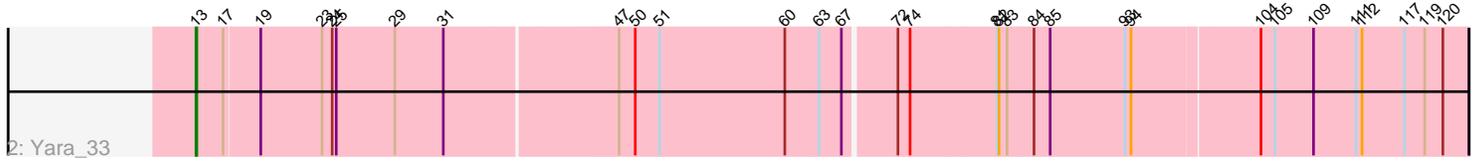
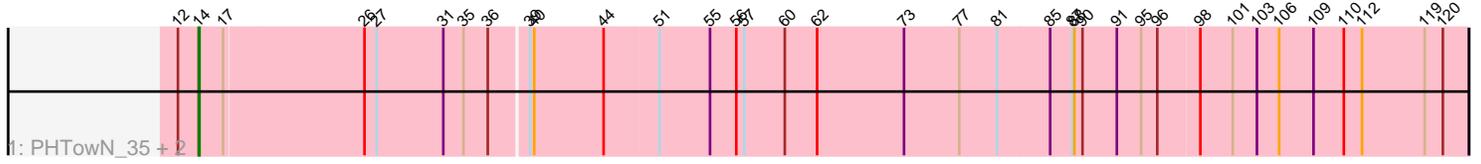


Pham 87233



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 87233 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87233 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : PHTowN_35, Lizz_35, ShakeNBake_35
- Track 2 : Yara_33
- Track 3 : Dryad_39
- Track 4 : Wentworth_36
- Track 5 : Wilkos_36
- Track 6 : Rooney_35, Gibson_35
- Track 7 : Hiyaa_50
- Track 8 : Galactica_49
- Track 9 : Keanu_49
- Track 10 : Spocter_51

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

The start number called the most often in the published annotations is 14, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_39, Galactica_49, Gibson_35, Hiyaa_50, Keanu_49, Lizz_35, PHTowN_35, Rooney_35, ShakeNBake_35, Spocter_51, Wentworth_36, Wilkos_36,

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

-

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

- Yara_33,

Summary by start number:

Start 13:

- Found in 1 of 13 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yara_33 (BN),

Start 14:

- Found in 12 of 13 (92.3%) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_39 (BN), Galactica_49 (BQ), Gibson_35 (BN), Hiyaa_50 (BQ), Keanu_49 (BQ), Lizz_35 (BN), PHTowN_35 (BN), Rooney_35 (BN), ShakeNBake_35 (BN), Spocter_51 (BQ), Wentworth_36 (BN), Wilkos_36 (BN),

Summary by clusters:

There are 2 clusters represented in this pham: BN, BQ,

Info for manual annotations of cluster BN:

- Start number 13 was manually annotated 1 time for cluster BN.
- Start number 14 was manually annotated 7 times for cluster BN.

Info for manual annotations of cluster BQ:

- Start number 14 was manually annotated 3 times for cluster BQ.

Gene Information:

Gene: Dryad_39 Start: 30666, Stop: 28831, Start Num: 14

Candidate Starts for Dryad_39:

(Start: 14 @30666 has 10 MA's), (16, 30639), (17, 30630), (27, 30408), (31, 30309), (32, 30306), (35, 30279), (39, 30189), (40, 30183), (44, 30087), (45, 30078), (50, 30042), (51, 30012), (62, 29778), (69, 29724), (77, 29574), (81, 29520), (83, 29505), (85, 29442), (88, 29406), (90, 29394), (91, 29343), (98, 29226), (99, 29223), (103, 29145), (104, 29139), (107, 29088), (109, 29061), (110, 29016), (112, 28989), (114, 28974), (116, 28935), (118, 28920), (120, 28869),

Gene: Galactica_49 Start: 36656, Stop: 38509, Start Num: 14

Candidate Starts for Galactica_49:

(4, 36518), (10, 36596), (Start: 14 @36656 has 10 MA's), (15, 36680), (16, 36683), (18, 36725), (20, 36767), (22, 36809), (41, 37157), (46, 37271), (48, 37283), (49, 37301), (52, 37364), (61, 37526), (64, 37577), (65, 37583), (76, 37745), (79, 37811), (80, 37814), (83, 37853), (89, 37958), (92, 38015), (100, 38141), (104, 38222), (107, 38273), (109, 38300), (112, 38363), (115, 38408), (117, 38426), (120, 38477),

Gene: Gibson_35 Start: 30172, Stop: 28340, Start Num: 14

Candidate Starts for Gibson_35:

(9, 30253), (Start: 14 @30172 has 10 MA's), (16, 30145), (17, 30136), (27, 29914), (31, 29815), (35, 29785), (38, 29719), (39, 29698), (40, 29692), (43, 29611), (51, 29521), (54, 29491), (60, 29335), (71, 29191), (77, 29083), (78, 29062), (81, 29029), (83, 29014), (85, 28951), (88, 28915), (90, 28903), (91, 28852), (95, 28816), (96, 28792), (97, 28768), (98, 28735), (101, 28690), (103, 28654), (106, 28621), (107, 28597), (109, 28570), (110, 28525), (112, 28498), (120, 28378),

Gene: Hiyaa_50 Start: 37839, Stop: 39692, Start Num: 14

Candidate Starts for Hiyaa_50:

(8, 37749), (Start: 14 @37839 has 10 MA's), (15, 37863), (16, 37866), (17, 37875), (18, 37908), (20, 37950), (22, 37992), (28, 38115), (29, 38130), (46, 38454), (48, 38466), (49, 38484), (52, 38547), (58, 38655), (61, 38709), (64, 38760), (65, 38766), (72, 38874), (73, 38883), (80, 38997), (83, 39036), (86,

39102), (100, 39324), (102, 39393), (104, 39405), (107, 39456), (109, 39483), (112, 39546), (120, 39660),

Gene: Keanu_49 Start: 37590, Stop: 39443, Start Num: 14

Candidate Starts for Keanu_49:

(1, 37338), (2, 37422), (3, 37443), (5, 37458), (6, 37479), (7, 37485), (8, 37500), (Start: 14 @37590 has 10 MA's), (15, 37614), (16, 37617), (17, 37626), (18, 37659), (20, 37701), (22, 37743), (27, 37854), (37, 38022), (46, 38205), (48, 38217), (49, 38235), (52, 38298), (59, 38418), (61, 38460), (64, 38511), (65, 38517), (68, 38550), (72, 38625), (74, 38643), (80, 38748), (83, 38787), (86, 38853), (100, 39075), (102, 39144), (104, 39156), (107, 39207), (109, 39234), (112, 39297), (113, 39300), (120, 39411),

Gene: Lizz_35 Start: 29987, Stop: 28152, Start Num: 14

Candidate Starts for Lizz_35:

(12, 30017), (Start: 14 @29987 has 10 MA's), (17, 29951), (26, 29747), (27, 29729), (31, 29630), (35, 29600), (36, 29564), (39, 29510), (40, 29504), (44, 29408), (51, 29333), (55, 29258), (56, 29219), (57, 29207), (60, 29147), (62, 29099), (73, 28973), (77, 28895), (81, 28841), (85, 28763), (87, 28730), (88, 28727), (90, 28715), (91, 28664), (95, 28628), (96, 28604), (98, 28547), (101, 28502), (103, 28466), (106, 28433), (109, 28382), (110, 28337), (112, 28310), (119, 28217), (120, 28190),

Gene: PHTowN_35 Start: 29985, Stop: 28150, Start Num: 14

Candidate Starts for PHTowN_35:

(12, 30015), (Start: 14 @29985 has 10 MA's), (17, 29949), (26, 29745), (27, 29727), (31, 29628), (35, 29598), (36, 29562), (39, 29508), (40, 29502), (44, 29406), (51, 29331), (55, 29256), (56, 29217), (57, 29205), (60, 29145), (62, 29097), (73, 28971), (77, 28893), (81, 28839), (85, 28761), (87, 28728), (88, 28725), (90, 28713), (91, 28662), (95, 28626), (96, 28602), (98, 28545), (101, 28500), (103, 28464), (106, 28431), (109, 28380), (110, 28335), (112, 28308), (119, 28215), (120, 28188),

Gene: Rooney_35 Start: 30169, Stop: 28337, Start Num: 14

Candidate Starts for Rooney_35:

(9, 30250), (Start: 14 @30169 has 10 MA's), (16, 30142), (17, 30133), (27, 29911), (31, 29812), (35, 29782), (38, 29716), (39, 29695), (40, 29689), (43, 29608), (51, 29518), (54, 29488), (60, 29332), (71, 29188), (77, 29080), (78, 29059), (81, 29026), (83, 29011), (85, 28948), (88, 28912), (90, 28900), (91, 28849), (95, 28813), (96, 28789), (97, 28765), (98, 28732), (101, 28687), (103, 28651), (106, 28618), (107, 28594), (109, 28567), (110, 28522), (112, 28495), (120, 28375),

Gene: ShakeNBake_35 Start: 30003, Stop: 28168, Start Num: 14

Candidate Starts for ShakeNBake_35:

(12, 30033), (Start: 14 @30003 has 10 MA's), (17, 29967), (26, 29763), (27, 29745), (31, 29646), (35, 29616), (36, 29580), (39, 29526), (40, 29520), (44, 29424), (51, 29349), (55, 29274), (56, 29235), (57, 29223), (60, 29163), (62, 29115), (73, 28989), (77, 28911), (81, 28857), (85, 28779), (87, 28746), (88, 28743), (90, 28731), (91, 28680), (95, 28644), (96, 28620), (98, 28563), (101, 28518), (103, 28482), (106, 28449), (109, 28398), (110, 28353), (112, 28326), (119, 28233), (120, 28206),

Gene: Spocter_51 Start: 37869, Stop: 39722, Start Num: 14

Candidate Starts for Spocter_51:

(8, 37779), (Start: 14 @37869 has 10 MA's), (15, 37893), (16, 37896), (17, 37905), (18, 37938), (20, 37980), (22, 38022), (28, 38145), (29, 38160), (46, 38484), (48, 38496), (49, 38514), (52, 38577), (53, 38580), (61, 38739), (64, 38790), (65, 38796), (72, 38904), (73, 38913), (80, 39027), (83, 39066), (86, 39132), (100, 39354), (102, 39423), (104, 39435), (107, 39486), (109, 39513), (112, 39576), (120, 39690),

Gene: Wentworth_36 Start: 30474, Stop: 28651, Start Num: 14

Candidate Starts for Wentworth_36:

(9, 30555), (11, 30528), (Start: 14 @30474 has 10 MA's), (16, 30447), (17, 30438), (26, 30234), (27, 30216), (30, 30183), (31, 30117), (32, 30114), (33, 30102), (34, 30096), (35, 30087), (38, 30021), (42, 29916), (44, 29898), (45, 29889), (51, 29823), (54, 29793), (63, 29586), (66, 29556), (75, 29436), (81, 29340), (85, 29262), (90, 29214), (91, 29163), (96, 29103), (98, 29046), (101, 29001), (103, 28965), (104, 28959), (105, 28938), (107, 28908), (109, 28881), (110, 28836), (112, 28809), (117, 28746), (118, 28740), (120, 28689),

Gene: Wilkos_36 Start: 30289, Stop: 28454, Start Num: 14

Candidate Starts for Wilkos_36:

(9, 30370), (Start: 14 @30289 has 10 MA's), (17, 30253), (21, 30175), (24, 30097), (27, 30031), (31, 29932), (34, 29911), (35, 29902), (39, 29812), (44, 29710), (45, 29701), (50, 29665), (51, 29635), (69, 29347), (70, 29341), (77, 29197), (81, 29143), (83, 29128), (85, 29065), (88, 29029), (90, 29017), (95, 28930), (96, 28906), (98, 28849), (99, 28846), (103, 28768), (104, 28762), (108, 28696), (109, 28684), (110, 28639), (112, 28612), (114, 28597), (117, 28549), (118, 28543), (120, 28492), (121, 28471),

Gene: Yara_33 Start: 29664, Stop: 27850, Start Num: 13

Candidate Starts for Yara_33:

(Start: 13 @29664 has 1 MA's), (17, 29628), (19, 29577), (23, 29487), (24, 29472), (25, 29466), (29, 29379), (31, 29307), (47, 29067), (50, 29043), (51, 29013), (60, 28827), (63, 28779), (67, 28746), (72, 28674), (74, 28659), (81, 28533), (82, 28530), (83, 28518), (84, 28479), (85, 28455), (93, 28344), (94, 28335), (104, 28155), (105, 28134), (109, 28077), (111, 28014), (112, 28005), (117, 27942), (119, 27912), (120, 27888),