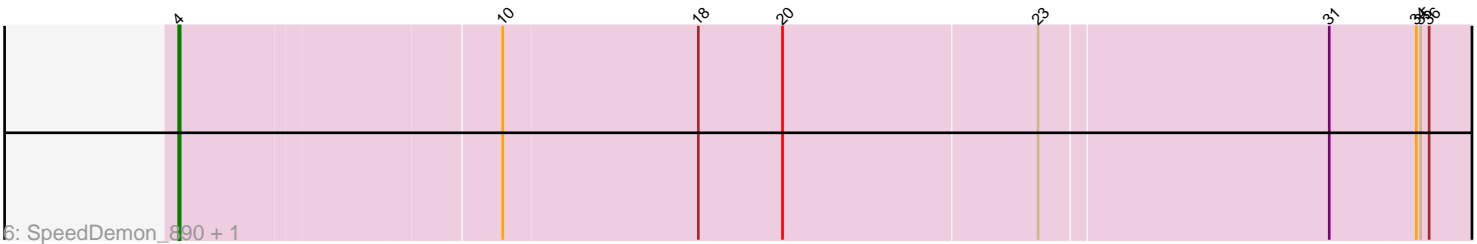
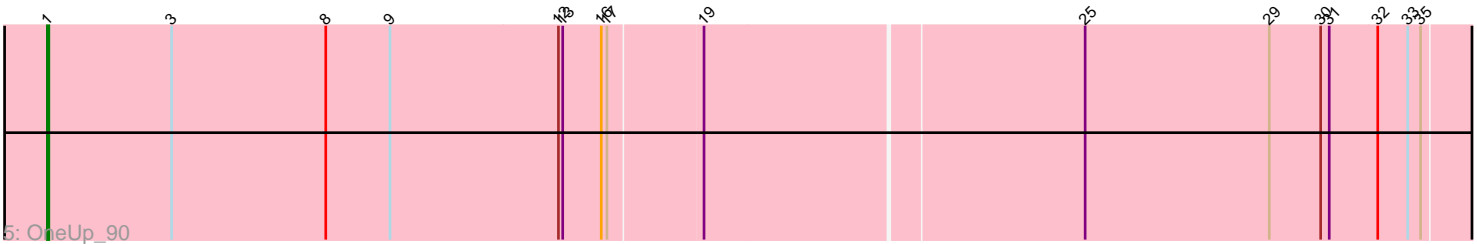
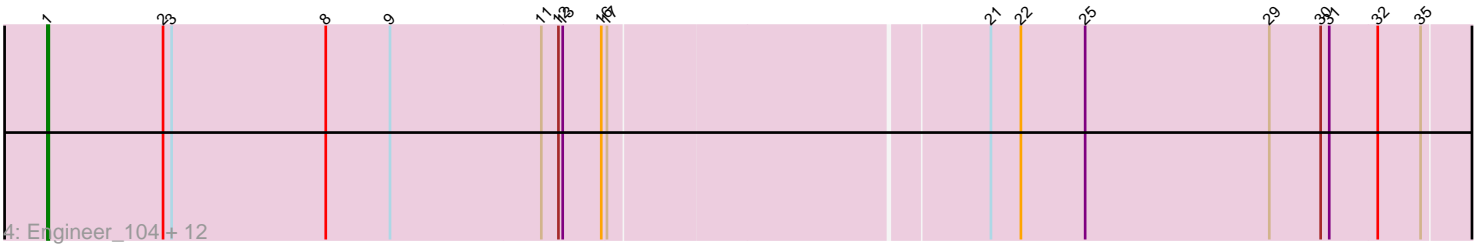
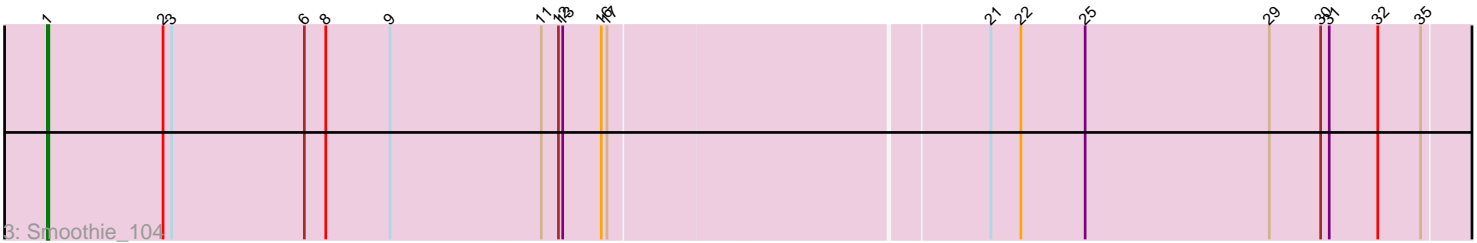
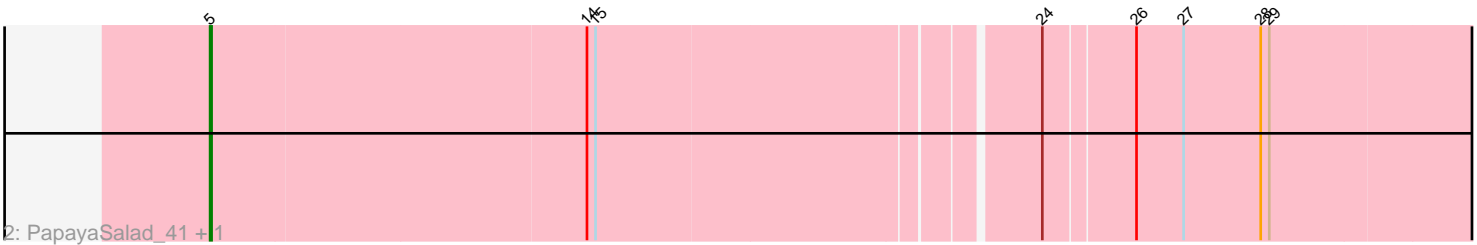
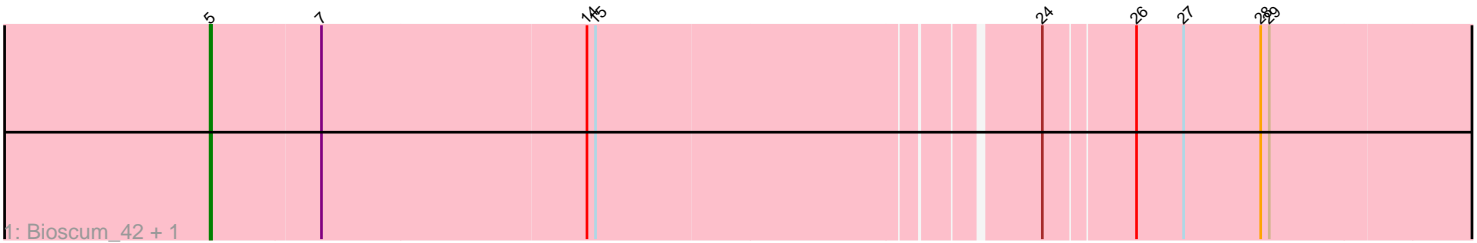


Pham 86829



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 86829 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86829 has 21 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Bioscum_42, Ididsumtinwong_43
- Track 2 : PapayaSalad_41, Austintatious_39
- Track 3 : Smoothie_104
- Track 4 : Engineer_104, Cucurbita_104, PhinkBoden_102, Culver_105, Bachita_105, Abscondus_102, Dusty_100, Aphelion_104, Norvs_105, Miskis_101, Lozinak_103, ClubL_104, Toniann_105
- Track 5 : OneUp_90
- Track 6 : SpeedDemon_890, Bantam_88

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 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_102, Aphelion_104, Bachita_105, ClubL_104, Cucurbita_104, Culver_105, Dusty_100, Engineer_104, Lozinak_103, Miskis_101, Norvs_105, OneUp_90, PhinkBoden_102, Smoothie_104, Toniann_105,

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

-

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

- Austintatious_39, Bantam_88, Bioscum_42, Ididsumtinwong_43, PapayaSalad_41, SpeedDemon_890,

Summary by start number:

Start 1:

- Found in 15 of 21 (71.4%) of genes in pham
- Manual Annotations of this start: 12 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_102 (CQ), Aphelion_104 (CQ1), Bachita_105 (CQ1), ClubL_104 (CQ1), Cucurbita_104 (CQ1), Culver_105

(CQ1), Dusty_100 (CQ), Engineer_104 (CQ1), Lozinak_103 (CQ1), Miskis_101 (CQ), Norvs_105 (CQ), OneUp_90 (CQ2), PhinkBoden_102 (CQ1), Smoothie_104 (CQ1), Toniann_105 (CQ1),

Start 4:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bantam_88 (DL), SpeedDemon_890 (DL),

Start 5:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 4 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Austintatious_39 (BC3), Bioscum_42 (BC3), Ididsumtinwong_43 (BC3), PapayaSalad_41 (BC3),

Summary by clusters:

There are 5 clusters represented in this pham: CQ2, CQ1, CQ, DL, BC3,

Info for manual annotations of cluster BC3:

- Start number 5 was manually annotated 4 times for cluster BC3.

Info for manual annotations of cluster CQ:

- Start number 1 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 1 was manually annotated 10 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 1 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DL:

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

Gene Information:

Gene: Abscondus_102 Start: 61028, Stop: 62017, Start Num: 1

Candidate Starts for Abscondus_102:

(Start: 1 @61028 has 12 MA's), (2, 61109), (3, 61115), (8, 61223), (9, 61268), (11, 61373), (12, 61385), (13, 61388), (16, 61415), (17, 61418), (21, 61673), (22, 61694), (25, 61739), (29, 61868), (30, 61904), (31, 61910), (32, 61943), (35, 61973),

Gene: Aphelion_104 Start: 62581, Stop: 63570, Start Num: 1

Candidate Starts for Aphelion_104:

(Start: 1 @62581 has 12 MA's), (2, 62662), (3, 62668), (8, 62776), (9, 62821), (11, 62926), (12, 62938), (13, 62941), (16, 62968), (17, 62971), (21, 63226), (22, 63247), (25, 63292), (29, 63421), (30, 63457), (31, 63463), (32, 63496), (35, 63526),

Gene: Austintatious_39 Start: 25850, Stop: 26728, Start Num: 5

Candidate Starts for Austintatious_39:

(Start: 5 @25850 has 4 MA's), (14, 26108), (15, 26114), (24, 26405), (26, 26465), (27, 26498), (28, 26552), (29, 26558),

Gene: Bachita_105 Start: 62239, Stop: 63228, Start Num: 1

Candidate Starts for Bachita_105:

(Start: 1 @62239 has 12 MA's), (2, 62320), (3, 62326), (8, 62434), (9, 62479), (11, 62584), (12, 62596), (13, 62599), (16, 62626), (17, 62629), (21, 62884), (22, 62905), (25, 62950), (29, 63079), (30, 63115), (31, 63121), (32, 63154), (35, 63184),

Gene: Bantam_88 Start: 60544, Stop: 59627, Start Num: 4

Candidate Starts for Bantam_88:

(Start: 4 @60544 has 2 MA's), (10, 60331), (18, 60196), (20, 60139), (23, 59965), (31, 59767), (34, 59707), (35, 59704), (36, 59698),

Gene: Bioscum_42 Start: 28146, Stop: 29024, Start Num: 5

Candidate Starts for Bioscum_42:

(Start: 5 @28146 has 4 MA's), (7, 28221), (14, 28404), (15, 28410), (24, 28701), (26, 28761), (27, 28794), (28, 28848), (29, 28854),

Gene: ClubL_104 Start: 61169, Stop: 62158, Start Num: 1

Candidate Starts for ClubL_104:

(Start: 1 @61169 has 12 MA's), (2, 61250), (3, 61256), (8, 61364), (9, 61409), (11, 61514), (12, 61526), (13, 61529), (16, 61556), (17, 61559), (21, 61814), (22, 61835), (25, 61880), (29, 62009), (30, 62045), (31, 62051), (32, 62084), (35, 62114),

Gene: Cucurbita_104 Start: 62746, Stop: 63735, Start Num: 1

Candidate Starts for Cucurbita_104:

(Start: 1 @62746 has 12 MA's), (2, 62827), (3, 62833), (8, 62941), (9, 62986), (11, 63091), (12, 63103), (13, 63106), (16, 63133), (17, 63136), (21, 63391), (22, 63412), (25, 63457), (29, 63586), (30, 63622), (31, 63628), (32, 63661), (35, 63691),

Gene: Culver_105 Start: 61068, Stop: 62057, Start Num: 1

Candidate Starts for Culver_105:

(Start: 1 @61068 has 12 MA's), (2, 61149), (3, 61155), (8, 61263), (9, 61308), (11, 61413), (12, 61425), (13, 61428), (16, 61455), (17, 61458), (21, 61713), (22, 61734), (25, 61779), (29, 61908), (30, 61944), (31, 61950), (32, 61983), (35, 62013),

Gene: Dusty_100 Start: 61087, Stop: 62076, Start Num: 1

Candidate Starts for Dusty_100:

(Start: 1 @61087 has 12 MA's), (2, 61168), (3, 61174), (8, 61282), (9, 61327), (11, 61432), (12, 61444), (13, 61447), (16, 61474), (17, 61477), (21, 61732), (22, 61753), (25, 61798), (29, 61927), (30, 61963), (31, 61969), (32, 62002), (35, 62032),

Gene: Engineer_104 Start: 62212, Stop: 63201, Start Num: 1

Candidate Starts for Engineer_104:

(Start: 1 @62212 has 12 MA's), (2, 62293), (3, 62299), (8, 62407), (9, 62452), (11, 62557), (12, 62569), (13, 62572), (16, 62599), (17, 62602), (21, 62857), (22, 62878), (25, 62923), (29, 63052), (30, 63088), (31, 63094), (32, 63127), (35, 63157),

Gene: Ididsumtinwong_43 Start: 28146, Stop: 29024, Start Num: 5

Candidate Starts for Ididsumtinwong_43:

(Start: 5 @28146 has 4 MA's), (7, 28221), (14, 28404), (15, 28410), (24, 28701), (26, 28761), (27, 28794), (28, 28848), (29, 28854),

Gene: Lozinak_103 Start: 62050, Stop: 63039, Start Num: 1

Candidate Starts for Lozinak_103:

(Start: 1 @62050 has 12 MA's), (2, 62131), (3, 62137), (8, 62245), (9, 62290), (11, 62395), (12, 62407), (13, 62410), (16, 62437), (17, 62440), (21, 62695), (22, 62716), (25, 62761), (29, 62890), (30, 62926), (31, 62932), (32, 62965), (35, 62995),

Gene: Miskis_101 Start: 60750, Stop: 61739, Start Num: 1

Candidate Starts for Miskis_101:

(Start: 1 @60750 has 12 MA's), (2, 60831), (3, 60837), (8, 60945), (9, 60990), (11, 61095), (12, 61107), (13, 61110), (16, 61137), (17, 61140), (21, 61395), (22, 61416), (25, 61461), (29, 61590), (30, 61626), (31, 61632), (32, 61665), (35, 61695),

Gene: Norvs_105 Start: 62077, Stop: 63066, Start Num: 1

Candidate Starts for Norvs_105:

(Start: 1 @62077 has 12 MA's), (2, 62158), (3, 62164), (8, 62272), (9, 62317), (11, 62422), (12, 62434), (13, 62437), (16, 62464), (17, 62467), (21, 62722), (22, 62743), (25, 62788), (29, 62917), (30, 62953), (31, 62959), (32, 62992), (35, 63022),

Gene: OneUp_90 Start: 58250, Stop: 59242, Start Num: 1

Candidate Starts for OneUp_90:

(Start: 1 @58250 has 12 MA's), (3, 58337), (8, 58445), (9, 58490), (12, 58607), (13, 58610), (16, 58637), (17, 58640), (19, 58703), (25, 58961), (29, 59090), (30, 59126), (31, 59132), (32, 59165), (33, 59186), (35, 59195),

Gene: PapayaSalad_41 Start: 28436, Stop: 29314, Start Num: 5

Candidate Starts for PapayaSalad_41:

(Start: 5 @28436 has 4 MA's), (14, 28694), (15, 28700), (24, 28991), (26, 29051), (27, 29084), (28, 29138), (29, 29144),

Gene: PhinkBoden_102 Start: 61840, Stop: 62829, Start Num: 1

Candidate Starts for PhinkBoden_102:

(Start: 1 @61840 has 12 MA's), (2, 61921), (3, 61927), (8, 62035), (9, 62080), (11, 62185), (12, 62197), (13, 62200), (16, 62227), (17, 62230), (21, 62485), (22, 62506), (25, 62551), (29, 62680), (30, 62716), (31, 62722), (32, 62755), (35, 62785),

Gene: Smoothie_104 Start: 62050, Stop: 63039, Start Num: 1

Candidate Starts for Smoothie_104:

(Start: 1 @62050 has 12 MA's), (2, 62131), (3, 62137), (6, 62230), (8, 62245), (9, 62290), (11, 62395), (12, 62407), (13, 62410), (16, 62437), (17, 62440), (21, 62695), (22, 62716), (25, 62761), (29, 62890), (30, 62926), (31, 62932), (32, 62965), (35, 62995),

Gene: SpeedDemon_890 Start: 62465, Stop: 61548, Start Num: 4

Candidate Starts for SpeedDemon_890:

(Start: 4 @62465 has 2 MA's), (10, 62252), (18, 62117), (20, 62060), (23, 61886), (31, 61688), (34, 61628), (35, 61625), (36, 61619),

Gene: Toniann_105 Start: 62020, Stop: 63009, Start Num: 1

Candidate Starts for Toniann_105:

(Start: 1 @62020 has 12 MA's), (2, 62101), (3, 62107), (8, 62215), (9, 62260), (11, 62365), (12, 62377), (13, 62380), (16, 62407), (17, 62410), (21, 62665), (22, 62686), (25, 62731), (29, 62860), (30,

62896), (31, 62902), (32, 62935), (35, 62965),