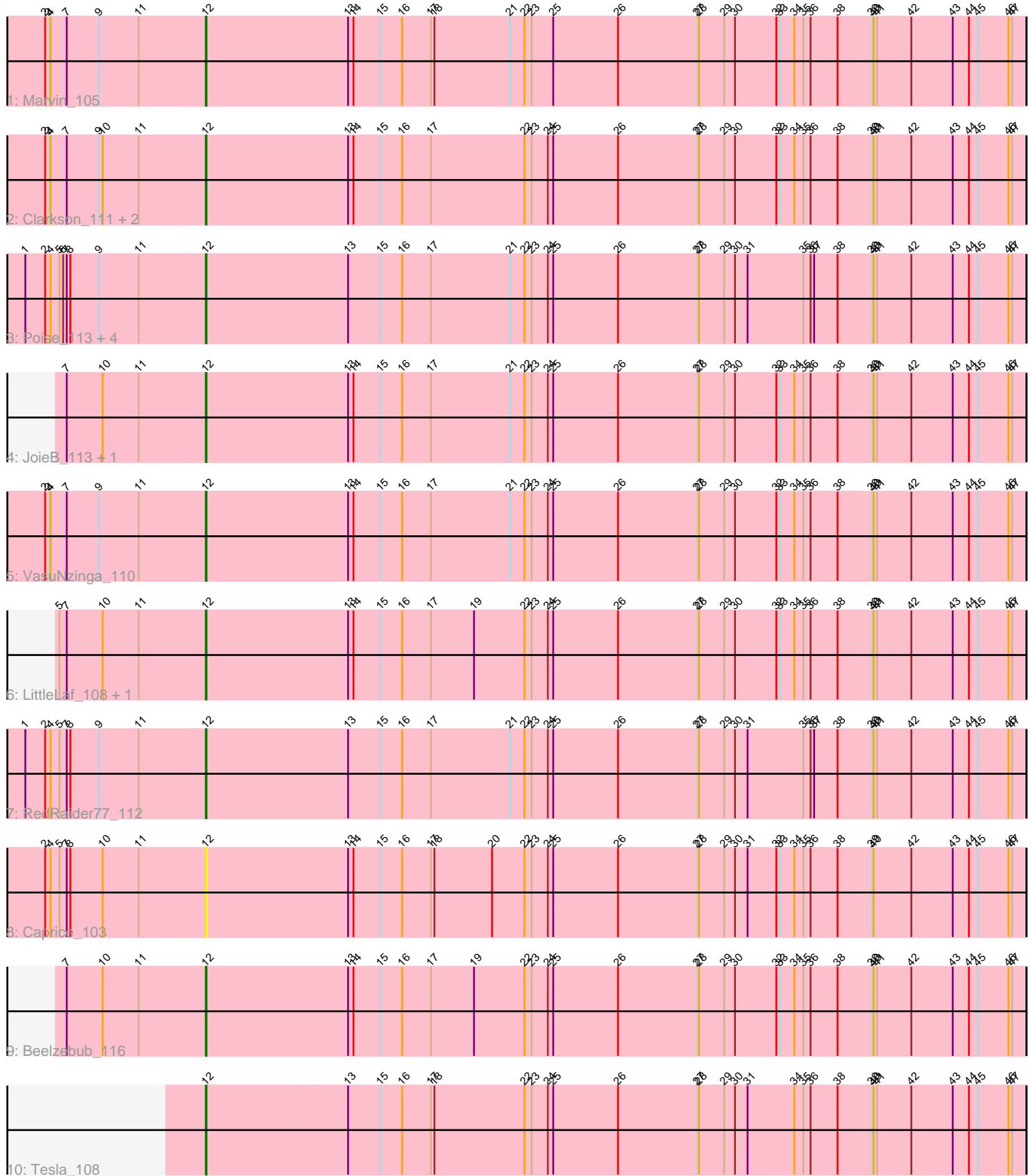


Pham 4170



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 4170 Report

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

Pham number 4170 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Marvin_105
- Track 2 : Clarkson_111, Huphlepuff_112, Corazon_105
- Track 3 : Poise_113, Gattaca_111, Raela_114, Blackbeetle_113, MosMoris_108
- Track 4 : JoieB_113, Pringar_108
- Track 5 : VasuNzinga_110
- Track 6 : LittleLaf_108, Lilbit_108
- Track 7 : RedRaider77_112
- Track 8 : Caprice_103
- Track 9 : Beelzebub_116
- Track 10 : Tesla_108

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

The start number called the most often in the published annotations is 12, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub_116, Blackbeetle_113, Caprice_103, Clarkson_111, Corazon_105, Gattaca_111, Huphlepuff_112, JoieB_113, Lilbit_108, LittleLaf_108, Marvin_105, MosMoris_108, Poise_113, Pringar_108, Raela_114, RedRaider77_112, Tesla_108, VasuNzinga_110,

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 12:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Beelzebub_116 (S), Blackbeetle_113 (S), Caprice_103 (S), Clarkson_111 (S), Corazon_105 (S), Gattaca_111 (S), Huphlepuff_112 (S), JoieB_113 (S), Lilbit_108 (S), LittleLaf_108 (S), Marvin_105 (S), MosMoris_108 (S), Poise_113 (S), Pringar_108 (S), Raela_114 (S), RedRaider77_112 (S), Tesla_108 (S), VasuNzinga_110 (S),

Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 12 was manually annotated 16 times for cluster S.

Gene Information:

Gene: Beelzebub_116 Start: 62057, Stop: 63418, Start Num: 12

Candidate Starts for Beelzebub_116:

(7, 61829), (10, 61889), (11, 61949), (Start: 12 @62057 has 16 MA's), (13, 62291), (14, 62300), (15, 62345), (16, 62381), (17, 62429), (19, 62501), (22, 62585), (23, 62597), (24, 62624), (25, 62633), (26, 62741), (27, 62873), (28, 62876), (29, 62918), (30, 62936), (32, 63005), (33, 63011), (34, 63035), (35, 63050), (36, 63062), (38, 63107), (39, 63161), (40, 63164), (41, 63170), (42, 63227), (43, 63296), (44, 63323), (45, 63338), (46, 63389), (47, 63395),

Gene: Blackbeetle_113 Start: 61346, Stop: 62710, Start Num: 12

Candidate Starts for Blackbeetle_113:

(1, 61049), (2, 61082), (4, 61091), (5, 61106), (6, 61112), (7, 61118), (8, 61124), (9, 61172), (11, 61238), (Start: 12 @61346 has 16 MA's), (13, 61580), (15, 61634), (16, 61670), (17, 61718), (21, 61850), (22, 61874), (23, 61886), (24, 61913), (25, 61922), (26, 62030), (27, 62162), (28, 62165), (29, 62207), (30, 62225), (31, 62246), (35, 62339), (36, 62351), (37, 62357), (38, 62396), (39, 62453), (40, 62456), (41, 62462), (42, 62519), (43, 62588), (44, 62615), (45, 62630), (46, 62681), (47, 62687),

Gene: Caprice_103 Start: 61140, Stop: 62501, Start Num: 12

Candidate Starts for Caprice_103:

(2, 60876), (4, 60885), (5, 60900), (7, 60912), (8, 60918), (10, 60972), (11, 61032), (Start: 12 @61140 has 16 MA's), (13, 61374), (14, 61383), (15, 61428), (16, 61464), (17, 61512), (18, 61518), (20, 61614), (22, 61668), (23, 61680), (24, 61707), (25, 61716), (26, 61824), (27, 61956), (28, 61959), (29, 62001), (30, 62019), (31, 62040), (32, 62088), (33, 62094), (34, 62118), (35, 62133), (36, 62145), (38, 62190), (39, 62244), (40, 62247), (42, 62310), (43, 62379), (44, 62406), (45, 62421), (46, 62472), (47, 62478),

Gene: Clarkson_111 Start: 61264, Stop: 62625, Start Num: 12

Candidate Starts for Clarkson_111:

(2, 61000), (3, 61006), (4, 61009), (7, 61036), (9, 61090), (10, 61096), (11, 61156), (Start: 12 @61264 has 16 MA's), (13, 61498), (14, 61507), (15, 61552), (16, 61588), (17, 61636), (22, 61792), (23, 61804), (24, 61831), (25, 61840), (26, 61948), (27, 62080), (28, 62083), (29, 62125), (30, 62143), (32, 62212), (33, 62218), (34, 62242), (35, 62257), (36, 62269), (38, 62314), (39, 62368), (40, 62371), (41, 62377), (42, 62434), (43, 62503), (44, 62530), (45, 62545), (46, 62596), (47, 62602),

Gene: Corazon_105 Start: 61458, Stop: 62819, Start Num: 12

Candidate Starts for Corazon_105:

(2, 61194), (3, 61200), (4, 61203), (7, 61230), (9, 61284), (10, 61290), (11, 61350), (Start: 12 @61458 has 16 MA's), (13, 61692), (14, 61701), (15, 61746), (16, 61782), (17, 61830), (22, 61986), (23, 61998), (24, 62025), (25, 62034), (26, 62142), (27, 62274), (28, 62277), (29, 62319), (30, 62337), (32, 62406), (33, 62412), (34, 62436), (35, 62451), (36, 62463), (38, 62508), (39, 62562), (40, 62565), (41, 62571), (42, 62628), (43, 62697), (44, 62724), (45, 62739), (46, 62790), (47, 62796),

Gene: Gattaca_111 Start: 61759, Stop: 63123, Start Num: 12

Candidate Starts for Gattaca_111:

(1, 61462), (2, 61495), (4, 61504), (5, 61519), (6, 61525), (7, 61531), (8, 61537), (9, 61585), (11, 61651), (Start: 12 @61759 has 16 MA's), (13, 61993), (15, 62047), (16, 62083), (17, 62131), (21, 62263), (22, 62287), (23, 62299), (24, 62326), (25, 62335), (26, 62443), (27, 62575), (28, 62578), (29, 62620), (30, 62638), (31, 62659), (35, 62752), (36, 62764), (37, 62770), (38, 62809), (39, 62866), (40, 62869), (41, 62875), (42, 62932), (43, 63001), (44, 63028), (45, 63043), (46, 63094), (47, 63100),

Gene: Huphlepuff_112 Start: 61070, Stop: 62431, Start Num: 12

Candidate Starts for Huphlepuff_112:

(2, 60806), (3, 60812), (4, 60815), (7, 60842), (9, 60896), (10, 60902), (11, 60962), (Start: 12 @61070 has 16 MA's), (13, 61304), (14, 61313), (15, 61358), (16, 61394), (17, 61442), (22, 61598), (23, 61610), (24, 61637), (25, 61646), (26, 61754), (27, 61886), (28, 61889), (29, 61931), (30, 61949), (32, 62018), (33, 62024), (34, 62048), (35, 62063), (36, 62075), (38, 62120), (39, 62174), (40, 62177), (41, 62183), (42, 62240), (43, 62309), (44, 62336), (45, 62351), (46, 62402), (47, 62408),

Gene: JoieB_113 Start: 61931, Stop: 63292, Start Num: 12

Candidate Starts for JoieB_113:

(7, 61703), (10, 61763), (11, 61823), (Start: 12 @61931 has 16 MA's), (13, 62165), (14, 62174), (15, 62219), (16, 62255), (17, 62303), (21, 62435), (22, 62459), (23, 62471), (24, 62498), (25, 62507), (26, 62615), (27, 62747), (28, 62750), (29, 62792), (30, 62810), (32, 62879), (33, 62885), (34, 62909), (35, 62924), (36, 62936), (38, 62981), (39, 63035), (40, 63038), (41, 63044), (42, 63101), (43, 63170), (44, 63197), (45, 63212), (46, 63263), (47, 63269),

Gene: Lilbit_108 Start: 61632, Stop: 62993, Start Num: 12

Candidate Starts for Lilbit_108:

(5, 61392), (7, 61404), (10, 61464), (11, 61524), (Start: 12 @61632 has 16 MA's), (13, 61866), (14, 61875), (15, 61920), (16, 61956), (17, 62004), (19, 62076), (22, 62160), (23, 62172), (24, 62199), (25, 62208), (26, 62316), (27, 62448), (28, 62451), (29, 62493), (30, 62511), (32, 62580), (33, 62586), (34, 62610), (35, 62625), (36, 62637), (38, 62682), (39, 62736), (40, 62739), (41, 62745), (42, 62802), (43, 62871), (44, 62898), (45, 62913), (46, 62964), (47, 62970),

Gene: LittleLaf_108 Start: 61361, Stop: 62722, Start Num: 12

Candidate Starts for LittleLaf_108:

(5, 61121), (7, 61133), (10, 61193), (11, 61253), (Start: 12 @61361 has 16 MA's), (13, 61595), (14, 61604), (15, 61649), (16, 61685), (17, 61733), (19, 61805), (22, 61889), (23, 61901), (24, 61928), (25, 61937), (26, 62045), (27, 62177), (28, 62180), (29, 62222), (30, 62240), (32, 62309), (33, 62315), (34, 62339), (35, 62354), (36, 62366), (38, 62411), (39, 62465), (40, 62468), (41, 62474), (42, 62531), (43, 62600), (44, 62627), (45, 62642), (46, 62693), (47, 62699),

Gene: Marvin_105 Start: 61626, Stop: 62987, Start Num: 12

Candidate Starts for Marvin_105:

(2, 61362), (3, 61368), (4, 61371), (7, 61398), (9, 61452), (11, 61518), (Start: 12 @61626 has 16 MA's), (13, 61860), (14, 61869), (15, 61914), (16, 61950), (17, 61998), (18, 62004), (21, 62130), (22, 62154), (23, 62166), (25, 62202), (26, 62310), (27, 62442), (28, 62445), (29, 62487), (30, 62505), (32, 62574), (33, 62580), (34, 62604), (35, 62619), (36, 62631), (38, 62676), (39, 62730), (40, 62733), (41, 62739), (42, 62796), (43, 62865), (44, 62892), (45, 62907), (46, 62958), (47, 62964),

Gene: MosMoris_108 Start: 61765, Stop: 63129, Start Num: 12

Candidate Starts for MosMoris_108:

(1, 61468), (2, 61501), (4, 61510), (5, 61525), (6, 61531), (7, 61537), (8, 61543), (9, 61591), (11, 61657), (Start: 12 @61765 has 16 MA's), (13, 61999), (15, 62053), (16, 62089), (17, 62137), (21, 62269), (22, 62293), (23, 62305), (24, 62332), (25, 62341), (26, 62449), (27, 62581), (28, 62584), (29, 62626), (30, 62644), (31, 62665), (35, 62758), (36, 62770), (37, 62776), (38, 62815), (39, 62872), (40, 62875), (41, 62881), (42, 62938), (43, 63007), (44, 63034), (45, 63049), (46, 63100), (47, 63106),

Gene: Poise_113 Start: 61346, Stop: 62710, Start Num: 12

Candidate Starts for Poise_113:

(1, 61049), (2, 61082), (4, 61091), (5, 61106), (6, 61112), (7, 61118), (8, 61124), (9, 61172), (11, 61238), (Start: 12 @61346 has 16 MA's), (13, 61580), (15, 61634), (16, 61670), (17, 61718), (21, 61850), (22, 61874), (23, 61886), (24, 61913), (25, 61922), (26, 62030), (27, 62162), (28, 62165), (29, 62207), (30, 62225), (31, 62246), (35, 62339), (36, 62351), (37, 62357), (38, 62396), (39, 62453), (40, 62456), (41, 62462), (42, 62519), (43, 62588), (44, 62615), (45, 62630), (46, 62681), (47, 62687),

Gene: Pringar_108 Start: 61344, Stop: 62705, Start Num: 12

Candidate Starts for Pringar_108:

(7, 61116), (10, 61176), (11, 61236), (Start: 12 @61344 has 16 MA's), (13, 61578), (14, 61587), (15, 61632), (16, 61668), (17, 61716), (21, 61848), (22, 61872), (23, 61884), (24, 61911), (25, 61920), (26, 62028), (27, 62160), (28, 62163), (29, 62205), (30, 62223), (32, 62292), (33, 62298), (34, 62322), (35, 62337), (36, 62349), (38, 62394), (39, 62448), (40, 62451), (41, 62457), (42, 62514), (43, 62583), (44, 62610), (45, 62625), (46, 62676), (47, 62682),

Gene: Raela_114 Start: 61902, Stop: 63266, Start Num: 12

Candidate Starts for Raela_114:

(1, 61605), (2, 61638), (4, 61647), (5, 61662), (6, 61668), (7, 61674), (8, 61680), (9, 61728), (11, 61794), (Start: 12 @61902 has 16 MA's), (13, 62136), (15, 62190), (16, 62226), (17, 62274), (21, 62406), (22, 62430), (23, 62442), (24, 62469), (25, 62478), (26, 62586), (27, 62718), (28, 62721), (29, 62763), (30, 62781), (31, 62802), (35, 62895), (36, 62907), (37, 62913), (38, 62952), (39, 63009), (40, 63012), (41, 63018), (42, 63075), (43, 63144), (44, 63171), (45, 63186), (46, 63237), (47, 63243),

Gene: RedRaider77_112 Start: 61349, Stop: 62713, Start Num: 12

Candidate Starts for RedRaider77_112:

(1, 61052), (2, 61085), (4, 61094), (5, 61109), (7, 61121), (8, 61127), (9, 61175), (11, 61241), (Start: 12 @61349 has 16 MA's), (13, 61583), (15, 61637), (16, 61673), (17, 61721), (21, 61853), (22, 61877), (23, 61889), (24, 61916), (25, 61925), (26, 62033), (27, 62165), (28, 62168), (29, 62210), (30, 62228), (31, 62249), (35, 62342), (36, 62354), (37, 62360), (38, 62399), (39, 62456), (40, 62459), (41, 62465), (42, 62522), (43, 62591), (44, 62618), (45, 62633), (46, 62684), (47, 62690),

Gene: Tesla_108 Start: 61147, Stop: 62508, Start Num: 12

Candidate Starts for Tesla_108:

(Start: 12 @61147 has 16 MA's), (13, 61381), (15, 61435), (16, 61471), (17, 61519), (18, 61525), (22, 61675), (23, 61687), (24, 61714), (25, 61723), (26, 61831), (27, 61963), (28, 61966), (29, 62008), (30, 62026), (31, 62047), (34, 62125), (35, 62140), (36, 62152), (38, 62197), (39, 62251), (40, 62254), (41, 62260), (42, 62317), (43, 62386), (44, 62413), (45, 62428), (46, 62479), (47, 62485),

Gene: VasuNzinga_110 Start: 61438, Stop: 62799, Start Num: 12

Candidate Starts for VasuNzinga_110:

(2, 61174), (3, 61180), (4, 61183), (7, 61210), (9, 61264), (11, 61330), (Start: 12 @61438 has 16 MA's), (13, 61672), (14, 61681), (15, 61726), (16, 61762), (17, 61810), (21, 61942), (22, 61966), (23, 61978), (24, 62005), (25, 62014), (26, 62122), (27, 62254), (28, 62257), (29, 62299), (30, 62317), (32,

62386), (33, 62392), (34, 62416), (35, 62431), (36, 62443), (38, 62488), (39, 62542), (40, 62545), (41, 62551), (42, 62608), (43, 62677), (44, 62704), (45, 62719), (46, 62770), (47, 62776),