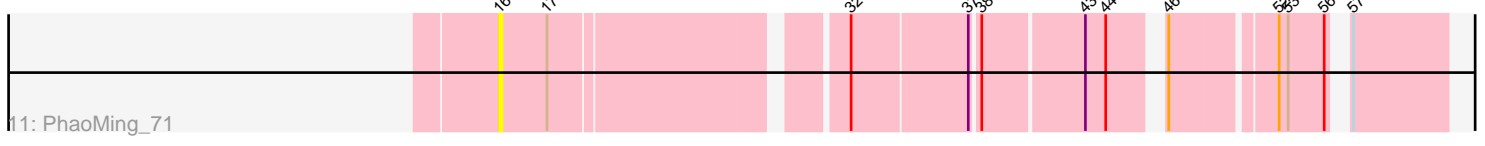
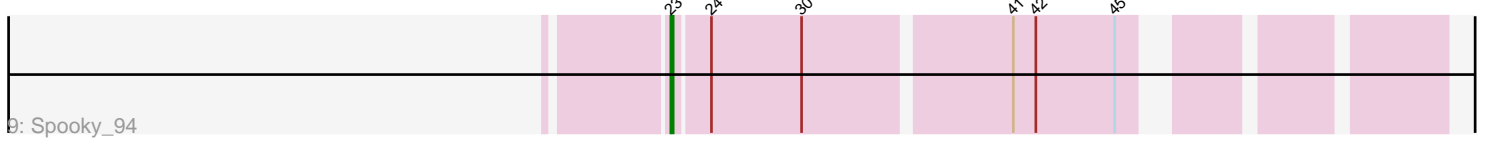
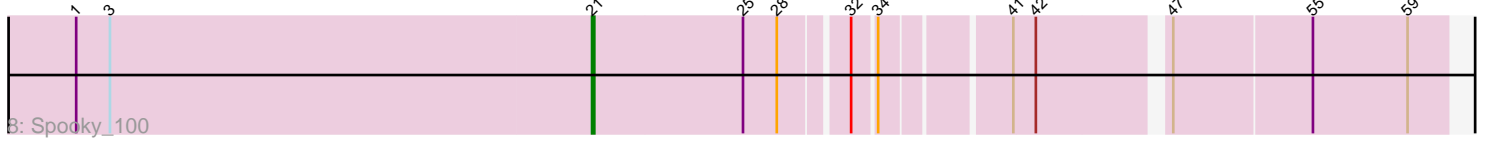
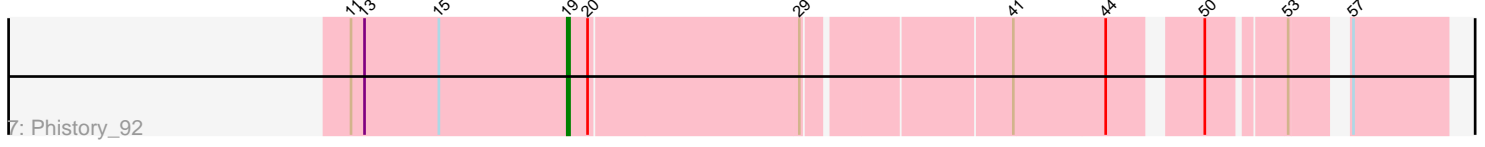
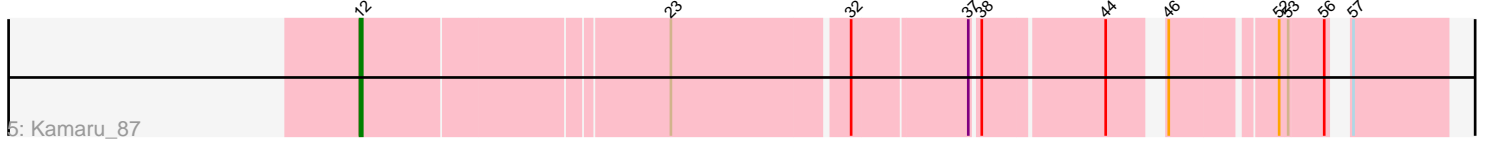
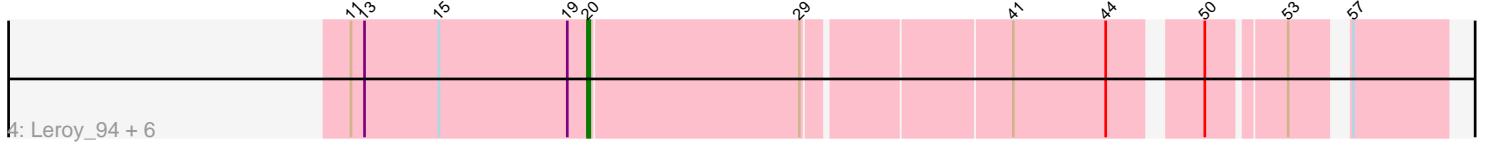
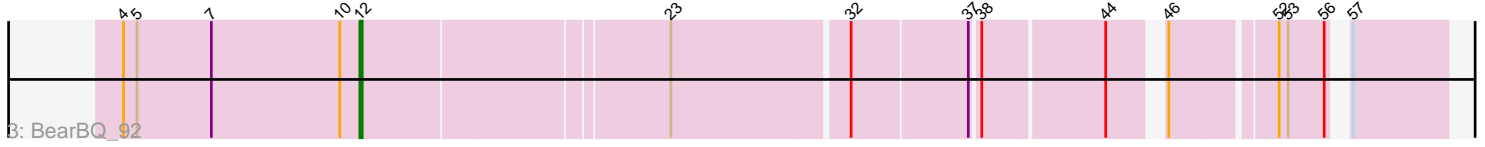
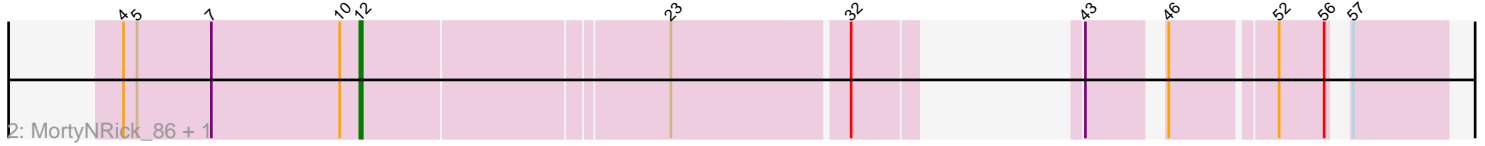
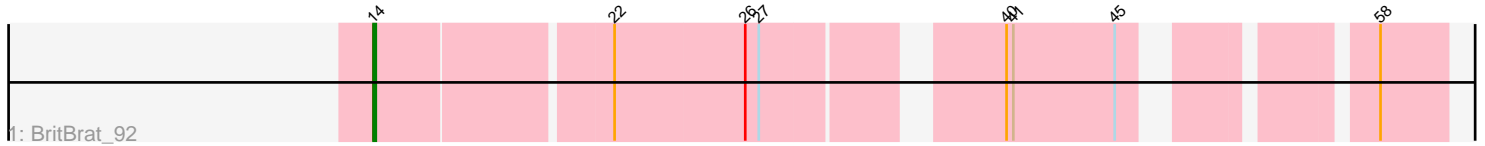


Pham 305338



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 305338 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305338 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BritBrat_92
- Track 2 : MortyNRick_86, ODay_102
- Track 3 : BearBQ_92
- Track 4 : Leroy_94, Horus_94, Frickyeah_100, Ecliptus_101, Periwinkle_102, Apricot_93, Crater_93
- Track 5 : Kamaru_87
- Track 6 : CheeseTouch_100, BotCity_96, BENtherdunthat_93
- Track 7 : Phistory_92
- Track 8 : Spooky_100
- Track 9 : Spooky_94
- Track 10 : Squiddly_95
- Track 11 : PhaoMing_71

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

The start number called the most often in the published annotations is 20, it was called in 9 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot_93, BENtherdunthat_93, BotCity_96, CheeseTouch_100, Crater_93, Ecliptus_101, Frickyeah_100, Horus_94, Leroy_94, Periwinkle_102,

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

- Phistory_92,

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

- BearBQ_92, BritBrat_92, Kamaru_87, MortyNRick_86, ODay_102, PhaoMing_71, Spooky_100, Spooky_94, Squiddly_95,

Summary by start number:

Start 12:

- Found in 4 of 20 (20.0%) 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: BearBQ_92 (DN), Kamaru_87 (DN1), MortyNRick_86 (DN), ODay_102 (DN),

Start 14:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat_92 (CY2),

Start 16:

- Found in 1 of 20 (5.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhaoMing_71 (UNK),

Start 19:

- Found in 11 of 20 (55.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Phistory_92 (DN1),

Start 20:

- Found in 11 of 20 (55.0%) of genes in pham
- Manual Annotations of this start: 9 of 18
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Apricot_93 (DN3), BENtherdunthat_93 (DN1), BotCity_96 (DN), CheeseTouch_100 (DN1), Crater_93 (DN3), Ecliptus_101 (DN), Frickyeah_100 (DN1), Horus_94 (DN1), Leroy_94 (DN1), Periwinkle_102 (DN1),

Start 21:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spooky_100 (DN2),

Start 23:

- Found in 6 of 20 (30.0%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Spooky_94 (DN2), Squiddly_95 (DN2),

Summary by clusters:

There are 6 clusters represented in this pham: DN, CY2, DN1, DN3, DN2, UNK,

Info for manual annotations of cluster CY2:

- Start number 14 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 12 was manually annotated 3 times for cluster DN.
- Start number 20 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 12 was manually annotated 1 time for cluster DN1.
- Start number 19 was manually annotated 1 time for cluster DN1.
- Start number 20 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 21 was manually annotated 1 time for cluster DN2.
- Start number 23 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 20 was manually annotated 2 times for cluster DN3.

Gene Information:

Gene: Apricot_93 Start: 49480, Stop: 49815, Start Num: 20

Candidate Starts for Apricot_93:

(11, 49375), (13, 49381), (15, 49414), (Start: 19 @49471 has 1 MA's), (Start: 20 @49480 has 9 MA's), (29, 49570), (41, 49654), (44, 49693), (50, 49726), (53, 49756), (57, 49774),

Gene: BENtherdunthat_93 Start: 50252, Stop: 50641, Start Num: 20

Candidate Starts for BENtherdunthat_93:

(11, 50147), (13, 50153), (15, 50186), (Start: 19 @50243 has 1 MA's), (Start: 20 @50252 has 9 MA's), (31, 50351), (33, 50366), (35, 50408), (36, 50414), (48, 50507),

Gene: BearBQ_92 Start: 51497, Stop: 51925, Start Num: 12

Candidate Starts for BearBQ_92:

(4, 51392), (5, 51398), (7, 51431), (10, 51488), (Start: 12 @51497 has 4 MA's), (Start: 23 @51626 has 2 MA's), (32, 51701), (37, 51749), (38, 51752), (44, 51803), (46, 51821), (52, 51863), (53, 51866), (56, 51881), (57, 51884),

Gene: BotCity_96 Start: 51781, Stop: 52170, Start Num: 20

Candidate Starts for BotCity_96:

(11, 51676), (13, 51682), (15, 51715), (Start: 19 @51772 has 1 MA's), (Start: 20 @51781 has 9 MA's), (31, 51880), (33, 51895), (35, 51937), (36, 51943), (48, 52036),

Gene: BritBrat_92 Start: 52968, Stop: 53378, Start Num: 14

Candidate Starts for BritBrat_92:

(Start: 14 @52968 has 1 MA's), (22, 53067), (26, 53124), (27, 53130), (40, 53220), (41, 53223), (45, 53265), (58, 53349),

Gene: CheeseTouch_100 Start: 49365, Stop: 49754, Start Num: 20

Candidate Starts for CheeseTouch_100:

(11, 49260), (13, 49266), (15, 49299), (Start: 19 @49356 has 1 MA's), (Start: 20 @49365 has 9 MA's), (31, 49464), (33, 49479), (35, 49521), (36, 49527), (48, 49620),

Gene: Crater_93 Start: 49824, Stop: 50159, Start Num: 20

Candidate Starts for Crater_93:

(11, 49719), (13, 49725), (15, 49758), (Start: 19 @49815 has 1 MA's), (Start: 20 @49824 has 9 MA's), (29, 49914), (41, 49998), (44, 50037), (50, 50070), (53, 50100), (57, 50118),

Gene: Ecliptus_101 Start: 53023, Stop: 53358, Start Num: 20

Candidate Starts for Ecliptus_101:

(11, 52918), (13, 52924), (15, 52957), (Start: 19 @53014 has 1 MA's), (Start: 20 @53023 has 9 MA's), (29, 53113), (41, 53197), (44, 53236), (50, 53269), (53, 53299), (57, 53317),

Gene: Frickyeah_100 Start: 51770, Stop: 52105, Start Num: 20

Candidate Starts for Frickyeah_100:

(11, 51665), (13, 51671), (15, 51704), (Start: 19 @51761 has 1 MA's), (Start: 20 @51770 has 9 MA's), (29, 51860), (41, 51944), (44, 51983), (50, 52016), (53, 52046), (57, 52064),

Gene: Horus_94 Start: 52045, Stop: 52380, Start Num: 20

Candidate Starts for Horus_94:

(11, 51940), (13, 51946), (15, 51979), (Start: 19 @52036 has 1 MA's), (Start: 20 @52045 has 9 MA's), (29, 52135), (41, 52219), (44, 52258), (50, 52291), (53, 52321), (57, 52339),

Gene: Kamaru_87 Start: 49076, Stop: 49504, Start Num: 12

Candidate Starts for Kamaru_87:

(Start: 12 @49076 has 4 MA's), (Start: 23 @49205 has 2 MA's), (32, 49280), (37, 49328), (38, 49331), (44, 49382), (46, 49400), (52, 49442), (53, 49445), (56, 49460), (57, 49463),

Gene: Leroy_94 Start: 50240, Stop: 50575, Start Num: 20

Candidate Starts for Leroy_94:

(11, 50135), (13, 50141), (15, 50174), (Start: 19 @50231 has 1 MA's), (Start: 20 @50240 has 9 MA's), (29, 50330), (41, 50414), (44, 50453), (50, 50486), (53, 50516), (57, 50534),

Gene: MortyNRick_86 Start: 50131, Stop: 50496, Start Num: 12

Candidate Starts for MortyNRick_86:

(4, 50026), (5, 50032), (7, 50065), (10, 50122), (Start: 12 @50131 has 4 MA's), (Start: 23 @50260 has 2 MA's), (32, 50335), (43, 50365), (46, 50392), (52, 50434), (56, 50452), (57, 50455),

Gene: ODay_102 Start: 53166, Stop: 53531, Start Num: 12

Candidate Starts for ODay_102:

(4, 53061), (5, 53067), (7, 53100), (10, 53157), (Start: 12 @53166 has 4 MA's), (Start: 23 @53295 has 2 MA's), (32, 53370), (43, 53400), (46, 53427), (52, 53469), (56, 53487), (57, 53490),

Gene: Periwinkle_102 Start: 53047, Stop: 53382, Start Num: 20

Candidate Starts for Periwinkle_102:

(11, 52942), (13, 52948), (15, 52981), (Start: 19 @53038 has 1 MA's), (Start: 20 @53047 has 9 MA's), (29, 53137), (41, 53221), (44, 53260), (50, 53293), (53, 53323), (57, 53341),

Gene: PhaoMing_71 Start: 45255, Stop: 45614, Start Num: 16

Candidate Starts for PhaoMing_71:

(16, 45255), (17, 45276), (32, 45390), (37, 45438), (38, 45441), (43, 45483), (44, 45492), (46, 45510), (52, 45552), (53, 45555), (56, 45570), (57, 45573),

Gene: Phistory_92 Start: 49079, Stop: 49423, Start Num: 19

Candidate Starts for Phistory_92:

(11, 48983), (13, 48989), (15, 49022), (Start: 19 @49079 has 1 MA's), (Start: 20 @49088 has 9 MA's), (29, 49178), (41, 49262), (44, 49301), (50, 49334), (53, 49364), (57, 49382),

Gene: Spooky_100 Start: 53379, Stop: 53726, Start Num: 21

Candidate Starts for Spooky_100:

(1, 53151), (3, 53166), (Start: 21 @53379 has 1 MA's), (25, 53445), (28, 53460), (32, 53487), (34, 53496), (41, 53547), (42, 53556), (47, 53607), (55, 53667), (59, 53709),

Gene: Spooky_94 Start: 51519, Stop: 51815, Start Num: 23

Candidate Starts for Spooky_94:

(Start: 23 @51519 has 2 MA's), (24, 51534), (30, 51573), (41, 51660), (42, 51669), (45, 51702),

Gene: Squiddly_95 Start: 54461, Stop: 54784, Start Num: 23

Candidate Starts for Squiddly_95:

(2, 54215), (6, 54248), (8, 54269), (9, 54302), (18, 54410), (Start: 23 @54461 has 2 MA's), (30, 54515), (39, 54590), (41, 54602), (42, 54611), (47, 54671), (49, 54683), (51, 54692), (54, 54725),