Pham 289843

1: Wigberry_21

2: GoblinVoyage_16 + 1

3: Doxi13_16 + 1

4: HotFries_15

5: Monse_16

6: Moozy_16

7: PherryCruz_15

8: Bilo_16

9: Annihilus_16

10: Ditters_16

11: Scap1_16

12: SheRa_16

13: Bing_21

14: ClubPenguin_18
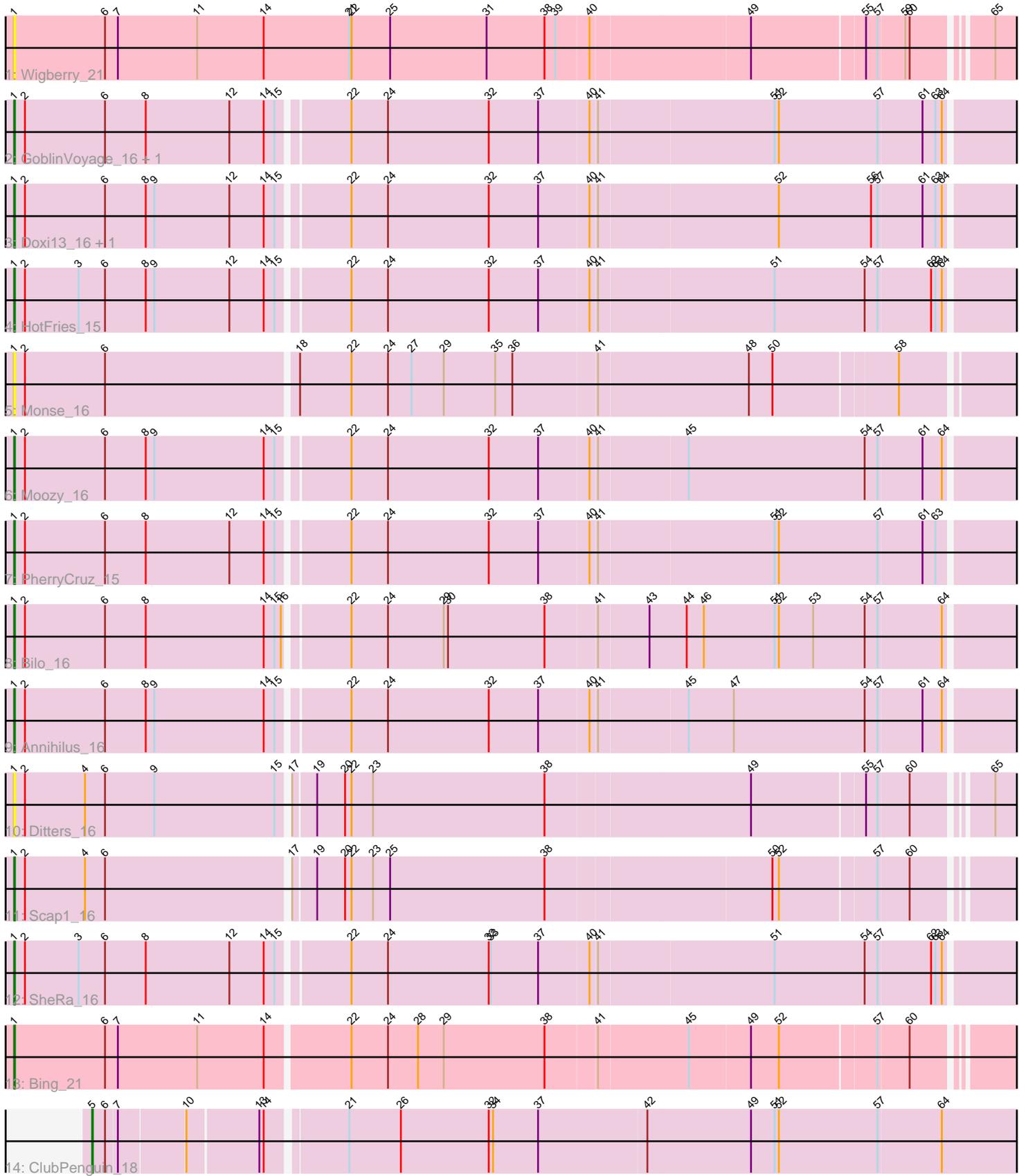
Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 289843 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289843 has 16 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Wigberry_21
• Track 2 : GoblinVoyage_16, RavenPuff_15
• Track 3 : Doxi13_16, Sangak_16
• Track 4 : HotFries_15
• Track 5 : Monse_16
• Track 6 : Moozy_16
• Track 7 : PherryCruz_15
• Track 8 : Bilo_16
• Track 9 : Annihilus_16
• Track 10 : Ditters_16
• Track 11 : Scap1_16
• Track 12 : SheRa_16
• Track 13 : Bing_21
• Track 14 : ClubPenguin_18

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

Genes that call this "Most Annotated" start:
• Annihilus_16, Bilo_16, Bing_21, Ditters_16, Doxi13_16, GoblinVoyage_16, HotFries_15, Monse_16, Moozy_16, PherryCruz_15, RavenPuff_15, Sangak_16, Scap1_16, SheRa_16, Wigberry_21,

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

Genes that do not have the "Most Annotated" start:
• ClubPenguin_18,

Summary by start number:

Start 1:

• Found in 15 of 16 (93.8%) of genes in pham
• Manual Annotations of this start: 11 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annihilus_16 (BI2), Bilo_16 (BI2), Bing_21 (BI5), Ditters_16 (BI2), Doxi13_16 (BI2), GoblinVoyage_16 (BI2), HotFries_15 (BI2), Monse_16 (BI2), Moozy_16 (BI2), PherryCruz_15 (BI2), RavenPuff_15 (BI2), Sangak_16 (BI2), Scap1_16 (BI2), SheRa_16 (BI2), Wigberry_21 (BI1),

Start 5:
• Found in 1 of 16 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ClubPenguin_18 (BI7),

Summary by clusters:

There are 4 clusters represented in this pham: BI7, BI5, BI2, BI1,

Info for manual annotations of cluster BI2:
•Start number 1 was manually annotated 10 times for cluster BI2.

Info for manual annotations of cluster BI5:
•Start number 1 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI7:
•Start number 5 was manually annotated 1 time for cluster BI7.

Gene Information:
Gene: Annihilus_16 Start: 11469, Stop: 12845, Start Num: 1
Candidate Starts for Annihilus_16:
(Start: 1 @11469 has 11 MA's), (2, 11484), (6, 11595), (8, 11652), (9, 11664), (14, 11817), (15, 11832), (22, 11922), (24, 11973), (32, 12114), (37, 12183), (40, 12252), (41, 12261), (45, 12381), (47, 12444), (54, 12627), (57, 12645), (61, 12705), (64, 12732),

Gene: Bilo_16 Start: 11961, Stop: 13340, Start Num: 1
Candidate Starts for Bilo_16:
(Start: 1 @11961 has 11 MA's), (2, 11976), (6, 12087), (8, 12144), (14, 12309), (15, 12324), (16, 12333), (22, 12414), (24, 12465), (29, 12543), (30, 12549), (38, 12684), (41, 12753), (43, 12822), (44, 12873), (46, 12897), (51, 12996), (52, 13002), (53, 13050), (54, 13122), (57, 13140), (64, 13227),

Gene: Bing_21 Start: 13993, Stop: 15351, Start Num: 1
Candidate Starts for Bing_21:
(Start: 1 @13993 has 11 MA's), (6, 14119), (7, 14137), (11, 14248), (14, 14341), (22, 14452), (24, 14503), (28, 14545), (29, 14581), (38, 14722), (41, 14791), (45, 14914), (49, 14998), (52, 15037), (57, 15166), (60, 15208),

Gene: ClubPenguin_18 Start: 13733, Stop: 15007, Start Num: 5
Candidate Starts for ClubPenguin_18:

(Start: 5 @13733 has 1 MA's), (6, 13751), (7, 13766), (10, 13853), (13, 13949), (14, 13955), (21, 14057), (26, 14129), (32, 14252), (34, 14258), (37, 14321), (42, 14471), (49, 14615), (51, 14648), (52, 14654), (57, 14792), (64, 14879),

Gene: Ditters_16 Start: 11957, Stop: 13312, Start Num: 1
Candidate Starts for Ditters_16:
(Start: 1 @11957 has 11 MA's), (2, 11972), (4, 12056), (6, 12083), (9, 12152), (15, 12320), (17, 12332), (19, 12362), (20, 12401), (22, 12410), (23, 12440), (38, 12680), (49, 12959), (55, 13112), (57, 13127), (60, 13169), (65, 13262),

Gene: Doxi13_16 Start: 11439, Stop: 12815, Start Num: 1
Candidate Starts for Doxi13_16:
(Start: 1 @11439 has 11 MA's), (2, 11454), (6, 11565), (8, 11622), (9, 11634), (12, 11739), (14, 11787), (15, 11802), (22, 11892), (24, 11943), (32, 12084), (37, 12153), (40, 12222), (41, 12231), (52, 12477), (56, 12606), (57, 12615), (61, 12675), (63, 12693), (64, 12702),

Gene: GoblinVoyage_16 Start: 11439, Stop: 12815, Start Num: 1
Candidate Starts for GoblinVoyage_16:
(Start: 1 @11439 has 11 MA's), (2, 11454), (6, 11565), (8, 11622), (12, 11739), (14, 11787), (15, 11802), (22, 11892), (24, 11943), (32, 12084), (37, 12153), (40, 12222), (41, 12231), (51, 12471), (52, 12477), (57, 12615), (61, 12675), (63, 12693), (64, 12702),

Gene: HotFries_15 Start: 11439, Stop: 12815, Start Num: 1
Candidate Starts for HotFries_15:
(Start: 1 @11439 has 11 MA's), (2, 11454), (3, 11529), (6, 11565), (8, 11622), (9, 11634), (12, 11739), (14, 11787), (15, 11802), (22, 11892), (24, 11943), (32, 12084), (37, 12153), (40, 12222), (41, 12231), (51, 12471), (54, 12597), (57, 12615), (62, 12687), (63, 12693), (64, 12702),

Gene: Monse_16 Start: 11471, Stop: 12841, Start Num: 1
Candidate Starts for Monse_16:
(Start: 1 @11471 has 11 MA's), (2, 11486), (6, 11597), (18, 11858), (22, 11930), (24, 11981), (27, 12014), (29, 12059), (35, 12131), (36, 12155), (41, 12269), (48, 12476), (50, 12509), (58, 12674),

Gene: Moozy_16 Start: 11456, Stop: 12832, Start Num: 1
Candidate Starts for Moozy_16:
(Start: 1 @11456 has 11 MA's), (2, 11471), (6, 11582), (8, 11639), (9, 11651), (14, 11804), (15, 11819), (22, 11909), (24, 11960), (32, 12101), (37, 12170), (40, 12239), (41, 12248), (45, 12368), (54, 12614), (57, 12632), (61, 12692), (64, 12719),

Gene: PherryCruz_15 Start: 11439, Stop: 12815, Start Num: 1
Candidate Starts for PherryCruz_15:
(Start: 1 @11439 has 11 MA's), (2, 11454), (6, 11565), (8, 11622), (12, 11739), (14, 11787), (15, 11802), (22, 11892), (24, 11943), (32, 12084), (37, 12153), (40, 12222), (41, 12231), (51, 12471), (52, 12477), (57, 12615), (61, 12675), (63, 12693),

Gene: RavenPuff_15 Start: 11439, Stop: 12815, Start Num: 1
Candidate Starts for RavenPuff_15:
(Start: 1 @11439 has 11 MA's), (2, 11454), (6, 11565), (8, 11622), (12, 11739), (14, 11787), (15, 11802), (22, 11892), (24, 11943), (32, 12084), (37, 12153), (40, 12222), (41, 12231), (51, 12471), (52, 12477), (57, 12615), (61, 12675), (63, 12693), (64, 12702),

Gene: Sangak_16 Start: 11440, Stop: 12816, Start Num: 1
Candidate Starts for Sangak_16:

(Start: 1 @11440 has 11 MA's), (2, 11455), (6, 11566), (8, 11623), (9, 11635), (12, 11740), (14, 11788), (15, 11803), (22, 11893), (24, 11944), (32, 12085), (37, 12154), (40, 12223), (41, 12232), (52, 12478), (56, 12607), (57, 12616), (61, 12676), (63, 12694), (64, 12703),

Gene: Scap1_16 Start: 11427, Stop: 12779, Start Num: 1
Candidate Starts for Scap1_16:
(Start: 1 @11427 has 11 MA's), (2, 11442), (4, 11526), (6, 11553), (17, 11802), (19, 11832), (20, 11871), (22, 11880), (23, 11910), (25, 11934), (38, 12150), (50, 12456), (52, 12465), (57, 12594), (60, 12636),

Gene: SheRa_16 Start: 11439, Stop: 12815, Start Num: 1
Candidate Starts for SheRa_16:
(Start: 1 @11439 has 11 MA's), (2, 11454), (3, 11529), (6, 11565), (8, 11622), (12, 11739), (14, 11787), (15, 11802), (22, 11892), (24, 11943), (32, 12084), (33, 12087), (37, 12153), (40, 12222), (41, 12231), (51, 12471), (54, 12597), (57, 12615), (62, 12687), (63, 12693), (64, 12702),

Gene: Wigberry_21 Start: 13534, Stop: 14904, Start Num: 1
Candidate Starts for Wigberry_21:
(Start: 1 @13534 has 11 MA's), (6, 13660), (7, 13678), (11, 13789), (14, 13882), (21, 14002), (22, 14005), (25, 14059), (31, 14194), (38, 14275), (39, 14290), (40, 14335), (49, 14551), (55, 14704), (57, 14719), (59, 14755), (60, 14761), (65, 14854),