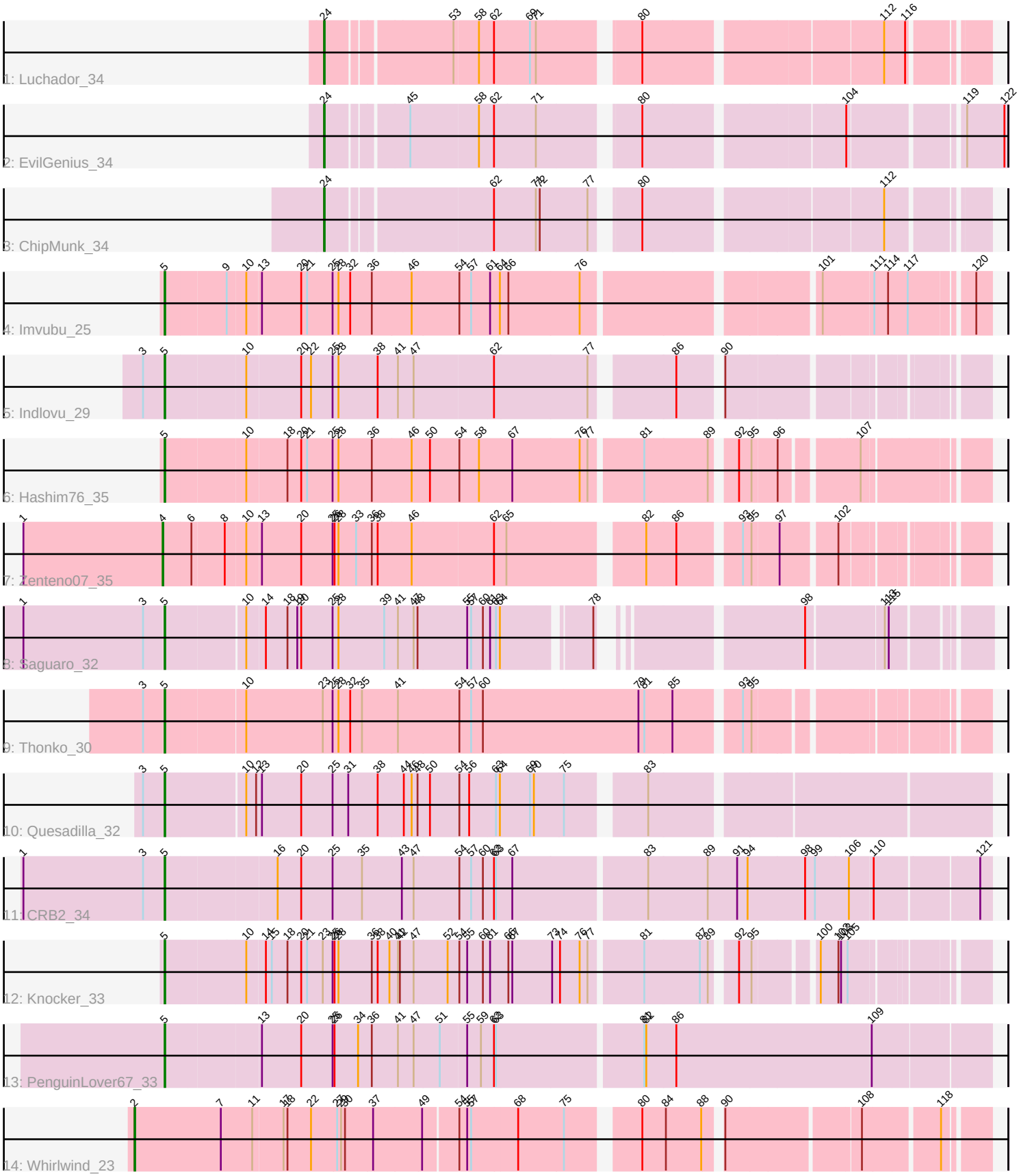
Pham 281022


1: Luchador_34
2: EvilGenius_34
3: ChipMunk_34
4: Imvubu_25
5: Indlovu_29
6: Hashim76_35
7: Zenteno07_35
8: Saguaro_32
9: Thonko_30
10: Quesadilla_32
11: CRB2_34
12: Knocker_33
13: PenguinLover67_33
14: Whirlwind_23

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 281022 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281022 has 14 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Luchador_34
• Track 2 : EvilGenius_34
• Track 3 : ChipMunk_34
• Track 4 : Imvubu_25
• Track 5 : Indlovu_29
• Track 6 : Hashim76_35
• Track 7 : Zenteno07_35
• Track 8 : Saguaro_32
• Track 9 : Thonko_30
• Track 10 : Quesadilla_32
• Track 11 : CRB2_34
• Track 12 : Knocker_33
• Track 13 : PenguinLover67_33
• Track 14 : Whirlwind_23

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

The start number called the most often in the published annotations is 5, it was called in 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CRB2_34, Hashim76_35, Imvubu_25, Indlovu_29, Knocker_33, PenguinLover67_33, Quesadilla_32, Saguaro_32, Thonko_30,

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

Genes that do not have the "Most Annotated" start:
• ChipMunk_34, EvilGenius_34, Luchador_34, Whirlwind_23, Zenteno07_35,

Summary by start number:

Start 2:
• Found in 1 of 14 (7.1%) of genes in pham

• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Whirlwind_23 (L3),

Start 4:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Zenteno07_35 (B13),

Start 5:
• Found in 9 of 14 (64.3%) of genes in pham
• Manual Annotations of this start: 9 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CRB2_34 (B9), Hashim76_35 (B13), Imvubu_25 (B10), Indlovu_29 (B11), Knocker_33 (B9), PenguinLover67_33 (B9), Quesadilla_32 (B9), Saguaro_32 (B7), Thonko_30 (B8),

Start 24:
• Found in 3 of 14 (21.4%) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ChipMunk_34 (A2), EvilGenius_34 (A2), Luchador_34 (A14),

Summary by clusters:

There are 9 clusters represented in this pham: A14, B7, A2, L3, B10, B11, B8, B9, B13,

Info for manual annotations of cluster A14:
•Start number 24 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A2:
•Start number 24 was manually annotated 2 times for cluster A2.

Info for manual annotations of cluster B10:
•Start number 5 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:
•Start number 5 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B13:
•Start number 4 was manually annotated 1 time for cluster B13.
•Start number 5 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B7:
•Start number 5 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B8:
•Start number 5 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster B9:

•Start number 5 was manually annotated 4 times for cluster B9.

Info for manual annotations of cluster L3:
•Start number 2 was manually annotated 1 time for cluster L3.

Gene Information:

Gene: CRB2_34 Start: 34225, Stop: 35433, Start Num: 5
Candidate Starts for CRB2_34:
(1, 34009), (3, 34192), (Start: 5 @34225 has 9 MA's), (16, 34387), (20, 34423), (25, 34471), (35, 34516), (43, 34576), (47, 34594), (54, 34660), (57, 34678), (60, 34696), (62, 34711), (63, 34714), (67, 34738), (83, 34933), (89, 35023), (91, 35068), (94, 35083), (98, 35170), (99, 35185), (106, 35236), (110, 35269), (121, 35416),

Gene: ChipMunk_34 Start: 25662, Stop: 26558, Start Num: 24
Candidate Starts for ChipMunk_34:
(Start: 24 @25662 has 3 MA's), (62, 25893), (71, 25956), (72, 25962), (77, 26034), (80, 26088), (112, 26424),

Gene: EvilGenius_34 Start: 25671, Stop: 26591, Start Num: 24
Candidate Starts for EvilGenius_34:
(Start: 24 @25671 has 3 MA's), (45, 25779), (58, 25881), (62, 25902), (71, 25965), (80, 26097), (104, 26379), (119, 26529), (122, 26586),

Gene: Hashim76_35 Start: 31239, Stop: 32393, Start Num: 5
Candidate Starts for Hashim76_35:
(Start: 5 @31239 has 9 MA's), (10, 31356), (18, 31416), (20, 31437), (21, 31446), (25, 31485), (28, 31494), (36, 31545), (46, 31605), (50, 31632), (54, 31674), (58, 31704), (67, 31752), (76, 31854), (77, 31866), (81, 31941), (89, 32037), (92, 32067), (95, 32085), (96, 32121), (107, 32223),

Gene: Imvubu_25 Start: 28919, Stop: 30094, Start Num: 5
Candidate Starts for Imvubu_25:
(Start: 5 @28919 has 9 MA's), (9, 29009), (10, 29036), (13, 29057), (20, 29117), (21, 29126), (25, 29165), (28, 29174), (32, 29192), (36, 29225), (46, 29285), (54, 29354), (57, 29372), (61, 29399), (64, 29414), (66, 29426), (76, 29534), (101, 29858), (111, 29933), (114, 29954), (117, 29984), (120, 30071),

Gene: Indlovu_29 Start: 31250, Stop: 32386, Start Num: 5
Candidate Starts for Indlovu_29:
(3, 31217), (Start: 5 @31250 has 9 MA's), (10, 31367), (20, 31448), (22, 31463), (25, 31496), (28, 31505), (38, 31565), (41, 31595), (47, 31619), (62, 31736), (77, 31877), (86, 31985), (90, 32042),

Gene: Knocker_33 Start: 33872, Stop: 35014, Start Num: 5
Candidate Starts for Knocker_33:
(Start: 5 @33872 has 9 MA's), (10, 33989), (14, 34016), (15, 34025), (18, 34049), (20, 34070), (21, 34079), (23, 34103), (25, 34118), (26, 34121), (28, 34127), (36, 34178), (38, 34187), (40, 34205), (41, 34217), (42, 34220), (47, 34241), (52, 34292), (54, 34307), (55, 34319), (60, 34343), (61, 34352), (66, 34379), (67, 34385), (73, 34445), (74, 34457), (76, 34487), (77, 34499), (81, 34574), (87, 34658), (89, 34670), (92, 34700), (95, 34718), (100, 34799), (102, 34826), (103, 34829), (105, 34838),

Gene: Luchador_34 Start: 25731, Stop: 26627, Start Num: 24

Candidate Starts for Luchador_34:
(Start: 24 @25731 has 3 MA's), (53, 25905), (58, 25941), (62, 25962), (69, 26016), (71, 26025), (80, 26157), (112, 26493), (116, 26523),

Gene: PenguinLover67_33 Start: 33434, Stop: 34648, Start Num: 5
Candidate Starts for PenguinLover67_33:
(Start: 5 @33434 has 9 MA's), (13, 33572), (20, 33632), (25, 33680), (26, 33683), (34, 33719), (36, 33740), (41, 33779), (47, 33803), (51, 33842), (55, 33881), (59, 33902), (62, 33920), (63, 33923), (81, 34136), (82, 34139), (86, 34184), (109, 34478),

Gene: Quesadilla_32 Start: 33335, Stop: 34516, Start Num: 5
Candidate Starts for Quesadilla_32:
(3, 33302), (Start: 5 @33335 has 9 MA's), (10, 33452), (12, 33467), (13, 33473), (20, 33533), (25, 33581), (31, 33605), (38, 33650), (44, 33689), (46, 33701), (48, 33710), (50, 33728), (54, 33770), (56, 33785), (63, 33824), (64, 33830), (69, 33875), (70, 33881), (75, 33926), (83, 34028),

Gene: Saguaro_32 Start: 33436, Stop: 34548, Start Num: 5
Candidate Starts for Saguaro_32:
(1, 33223), (3, 33406), (Start: 5 @33436 has 9 MA's), (10, 33550), (14, 33577), (18, 33610), (19, 33625), (20, 33631), (25, 33679), (28, 33688), (39, 33757), (41, 33778), (47, 33802), (48, 33808), (55, 33883), (57, 33889), (60, 33907), (61, 33916), (63, 33925), (64, 33931), (78, 34051), (98, 34303), (113, 34411), (115, 34417),

Gene: Thonko_30 Start: 29614, Stop: 30771, Start Num: 5
Candidate Starts for Thonko_30:
(3, 29584), (Start: 5 @29614 has 9 MA's), (10, 29728), (23, 29845), (25, 29860), (28, 29869), (32, 29887), (35, 29905), (41, 29959), (54, 30049), (57, 30067), (60, 30085), (79, 30319), (81, 30328), (85, 30370), (93, 30460), (95, 30472),

Gene: Whirlwind_23 Start: 22004, Stop: 23203, Start Num: 2
Candidate Starts for Whirlwind_23:
(Start: 2 @22004 has 1 MA's), (7, 22136), (11, 22184), (17, 22229), (18, 22235), (22, 22271), (27, 22310), (29, 22316), (30, 22322), (37, 22364), (49, 22436), (54, 22484), (55, 22496), (57, 22502), (68, 22571), (75, 22640), (80, 22733), (84, 22769), (88, 22823), (90, 22841), (108, 23033), (118, 23141),

Gene: Zenteno07_35 Start: 31167, Stop: 32306, Start Num: 4
Candidate Starts for Zenteno07_35:
(1, 30954), (Start: 4 @31167 has 1 MA's), (6, 31209), (8, 31257), (10, 31287), (13, 31308), (20, 31368), (25, 31416), (26, 31419), (28, 31425), (33, 31452), (36, 31476), (38, 31485), (46, 31536), (62, 31656), (65, 31674), (82, 31860), (86, 31905), (93, 31989), (95, 32001), (97, 32040), (102, 32118),