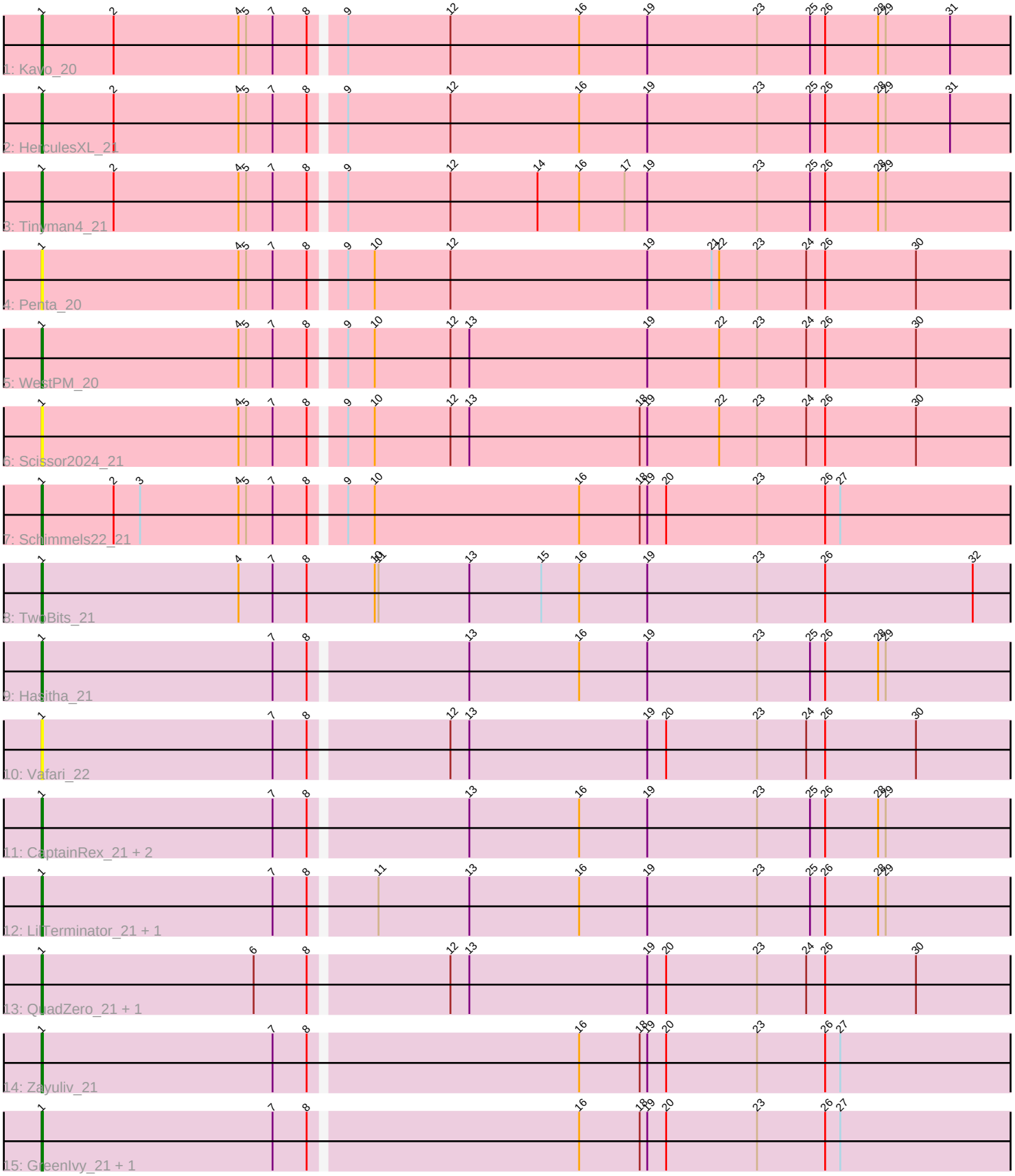
Pham 342575


1: Kayo_20
2: HerculesXL_21
3: Tinyman4_21
4: Penta_20
5: WestPM_20
6: Scissor2024_21
7: Schimmels22_21
8: TwoBits_21
9: Hasitha_21
10: Vafari_22
11: CaptainRex_21 + 2
12: LilTerminator_21 + 1
13: QuadZero_21 + 1
14: Zayuliv_21
15: GreenIvy_21 + 1

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 342575 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342575 has 20 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Kavo_20
• Track 2 : HerculesXL_21
• Track 3 : Tinyman4_21
• Track 4 : Penta_20
• Track 5 : WestPM_20
• Track 6 : Scissor2024_21
• Track 7 : Schimmels22_21
• Track 8 : TwoBits_21
• Track 9 : Hasitha_21
• Track 10 : Vafari_22
• Track 11 : CaptainRex_21, Librie_21, Fulton_21
• Track 12 : LilTerminator_21, Wardwill_23
• Track 13 : QuadZero_21, Zepp_22
• Track 14 : Zayuliv_21
• Track 15 : GreenIvy_21, BaronJohn_21

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 17 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BaronJohn_21, CaptainRex_21, Fulton_21, GreenIvy_21, Hasitha_21, HerculesXL_21, Kavo_20, Librie_21, LilTerminator_21, Penta_20, QuadZero_21, Schimmels22_21, Scissor2024_21, Tinyman4_21, TwoBits_21, Vafari_22, Wardwill_23, WestPM_20, Zayuliv_21, Zepp_22,

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 1:
• Found in 20 of 20 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaronJohn_21 (EA5), CaptainRex_21 (EA5), Fulton_21 (EA5), GreenIvy_21 (EA5), Hasitha_21 (EA5), HerculesXL_21 (EA11), Kavo_20 (EA11), Librie_21 (EA5), LilTerminator_21 (EA5), Penta_20 (EA11), QuadZero_21 (EA5), Schimmels22_21 (EA11), Scissor2024_21 (EA11), Tinyman4_21 (EA11), TwoBits_21 (EA5), Vafari_22 (EA5), Wardwill_23 (EA5), WestPM_20 (EA11), Zayuliv_21 (EA5), Zepp_22 (EA5),

Summary by clusters:

There are 2 clusters represented in this pham: EA11, EA5,

Info for manual annotations of cluster EA11:
•Start number 1 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 1 was manually annotated 12 times for cluster EA5.

Gene Information:

Gene: BaronJohn_21 Start: 16292, Stop: 17059, Start Num: 1
Candidate Starts for BaronJohn_21:
(Start: 1 @16292 has 17 MA's), (7, 16475), (8, 16502), (16, 16709), (18, 16757), (19, 16763), (20, 16778), (23, 16850), (26, 16904), (27, 16916),

Gene: CaptainRex_21 Start: 15719, Stop: 16486, Start Num: 1
Candidate Starts for CaptainRex_21:
(Start: 1 @15719 has 17 MA's), (7, 15902), (8, 15929), (13, 16049), (16, 16136), (19, 16190), (23, 16277), (25, 16319), (26, 16331), (28, 16373), (29, 16379),

Gene: Fulton_21 Start: 15701, Stop: 16468, Start Num: 1
Candidate Starts for Fulton_21:
(Start: 1 @15701 has 17 MA's), (7, 15884), (8, 15911), (13, 16031), (16, 16118), (19, 16172), (23, 16259), (25, 16301), (26, 16313), (28, 16355), (29, 16361),

Gene: GreenIvy_21 Start: 16294, Stop: 17061, Start Num: 1
Candidate Starts for GreenIvy_21:
(Start: 1 @16294 has 17 MA's), (7, 16477), (8, 16504), (16, 16711), (18, 16759), (19, 16765), (20, 16780), (23, 16852), (26, 16906), (27, 16918),

Gene: Hasitha_21 Start: 15719, Stop: 16486, Start Num: 1
Candidate Starts for Hasitha_21:
(Start: 1 @15719 has 17 MA's), (7, 15902), (8, 15929), (13, 16049), (16, 16136), (19, 16190), (23, 16277), (25, 16319), (26, 16331), (28, 16373), (29, 16379),

Gene: HerculesXL_21 Start: 15811, Stop: 16578, Start Num: 1
Candidate Starts for HerculesXL_21:

(Start: 1 @15811 has 17 MA's), (2, 15868), (4, 15967), (5, 15973), (7, 15994), (8, 16021), (9, 16045), (12, 16126), (16, 16228), (19, 16282), (23, 16369), (25, 16411), (26, 16423), (28, 16465), (29, 16471), (31, 16522),

Gene: Kavo_20 Start: 15650, Stop: 16417, Start Num: 1
Candidate Starts for Kavo_20:
(Start: 1 @15650 has 17 MA's), (2, 15707), (4, 15806), (5, 15812), (7, 15833), (8, 15860), (9, 15884), (12, 15965), (16, 16067), (19, 16121), (23, 16208), (25, 16250), (26, 16262), (28, 16304), (29, 16310), (31, 16361),

Gene: Librie_21 Start: 15719, Stop: 16486, Start Num: 1
Candidate Starts for Librie_21:
(Start: 1 @15719 has 17 MA's), (7, 15902), (8, 15929), (13, 16049), (16, 16136), (19, 16190), (23, 16277), (25, 16319), (26, 16331), (28, 16373), (29, 16379),

Gene: LilTerminator_21 Start: 15725, Stop: 16492, Start Num: 1
Candidate Starts for LilTerminator_21:
(Start: 1 @15725 has 17 MA's), (7, 15908), (8, 15935), (11, 15983), (13, 16055), (16, 16142), (19, 16196), (23, 16283), (25, 16325), (26, 16337), (28, 16379), (29, 16385),

Gene: Penta_20 Start: 15644, Stop: 16411, Start Num: 1
Candidate Starts for Penta_20:
(Start: 1 @15644 has 17 MA's), (4, 15800), (5, 15806), (7, 15827), (8, 15854), (9, 15878), (10, 15899), (12, 15959), (19, 16115), (21, 16166), (22, 16172), (23, 16202), (24, 16241), (26, 16256), (30, 16328),

Gene: QuadZero_21 Start: 15731, Stop: 16498, Start Num: 1
Candidate Starts for QuadZero_21:
(Start: 1 @15731 has 17 MA's), (6, 15899), (8, 15941), (12, 16046), (13, 16061), (19, 16202), (20, 16217), (23, 16289), (24, 16328), (26, 16343), (30, 16415),

Gene: Schimmels22_21 Start: 16174, Stop: 16941, Start Num: 1
Candidate Starts for Schimmels22_21:
(Start: 1 @16174 has 17 MA's), (2, 16231), (3, 16252), (4, 16330), (5, 16336), (7, 16357), (8, 16384), (9, 16408), (10, 16429), (16, 16591), (18, 16639), (19, 16645), (20, 16660), (23, 16732), (26, 16786), (27, 16798),

Gene: Scissor2024_21 Start: 15808, Stop: 16575, Start Num: 1
Candidate Starts for Scissor2024_21:
(Start: 1 @15808 has 17 MA's), (4, 15964), (5, 15970), (7, 15991), (8, 16018), (9, 16042), (10, 16063), (12, 16123), (13, 16138), (18, 16273), (19, 16279), (22, 16336), (23, 16366), (24, 16405), (26, 16420), (30, 16492),

Gene: Tinyman4_21 Start: 15811, Stop: 16578, Start Num: 1
Candidate Starts for Tinyman4_21:
(Start: 1 @15811 has 17 MA's), (2, 15868), (4, 15967), (5, 15973), (7, 15994), (8, 16021), (9, 16045), (12, 16126), (14, 16195), (16, 16228), (17, 16264), (19, 16282), (23, 16369), (25, 16411), (26, 16423), (28, 16465), (29, 16471),

Gene: TwoBits_21 Start: 16098, Stop: 16874, Start Num: 1
Candidate Starts for TwoBits_21:
(Start: 1 @16098 has 17 MA's), (4, 16254), (7, 16281), (8, 16308), (10, 16362), (11, 16365), (13, 16437), (15, 16494), (16, 16524), (19, 16578), (23, 16665), (26, 16719), (32, 16836),

Gene: Vafari_22 Start: 15716, Stop: 16483, Start Num: 1
Candidate Starts for Vafari_22:
(Start: 1 @15716 has 17 MA's), (7, 15899), (8, 15926), (12, 16031), (13, 16046), (19, 16187), (20, 16202), (23, 16274), (24, 16313), (26, 16328), (30, 16400),

Gene: Wardwill_23 Start: 15887, Stop: 16654, Start Num: 1
Candidate Starts for Wardwill_23:
(Start: 1 @15887 has 17 MA's), (7, 16070), (8, 16097), (11, 16145), (13, 16217), (16, 16304), (19, 16358), (23, 16445), (25, 16487), (26, 16499), (28, 16541), (29, 16547),

Gene: WestPM_20 Start: 15653, Stop: 16420, Start Num: 1
Candidate Starts for WestPM_20:
(Start: 1 @15653 has 17 MA's), (4, 15809), (5, 15815), (7, 15836), (8, 15863), (9, 15887), (10, 15908), (12, 15968), (13, 15983), (19, 16124), (22, 16181), (23, 16211), (24, 16250), (26, 16265), (30, 16337),

Gene: Zayuliv_21 Start: 16316, Stop: 17083, Start Num: 1
Candidate Starts for Zayuliv_21:
(Start: 1 @16316 has 17 MA's), (7, 16499), (8, 16526), (16, 16733), (18, 16781), (19, 16787), (20, 16802), (23, 16874), (26, 16928), (27, 16940),

Gene: Zepp_22 Start: 15715, Stop: 16482, Start Num: 1
Candidate Starts for Zepp_22:
(Start: 1 @15715 has 17 MA's), (6, 15883), (8, 15925), (12, 16030), (13, 16045), (19, 16186), (20, 16201), (23, 16273), (24, 16312), (26, 16327), (30, 16399),