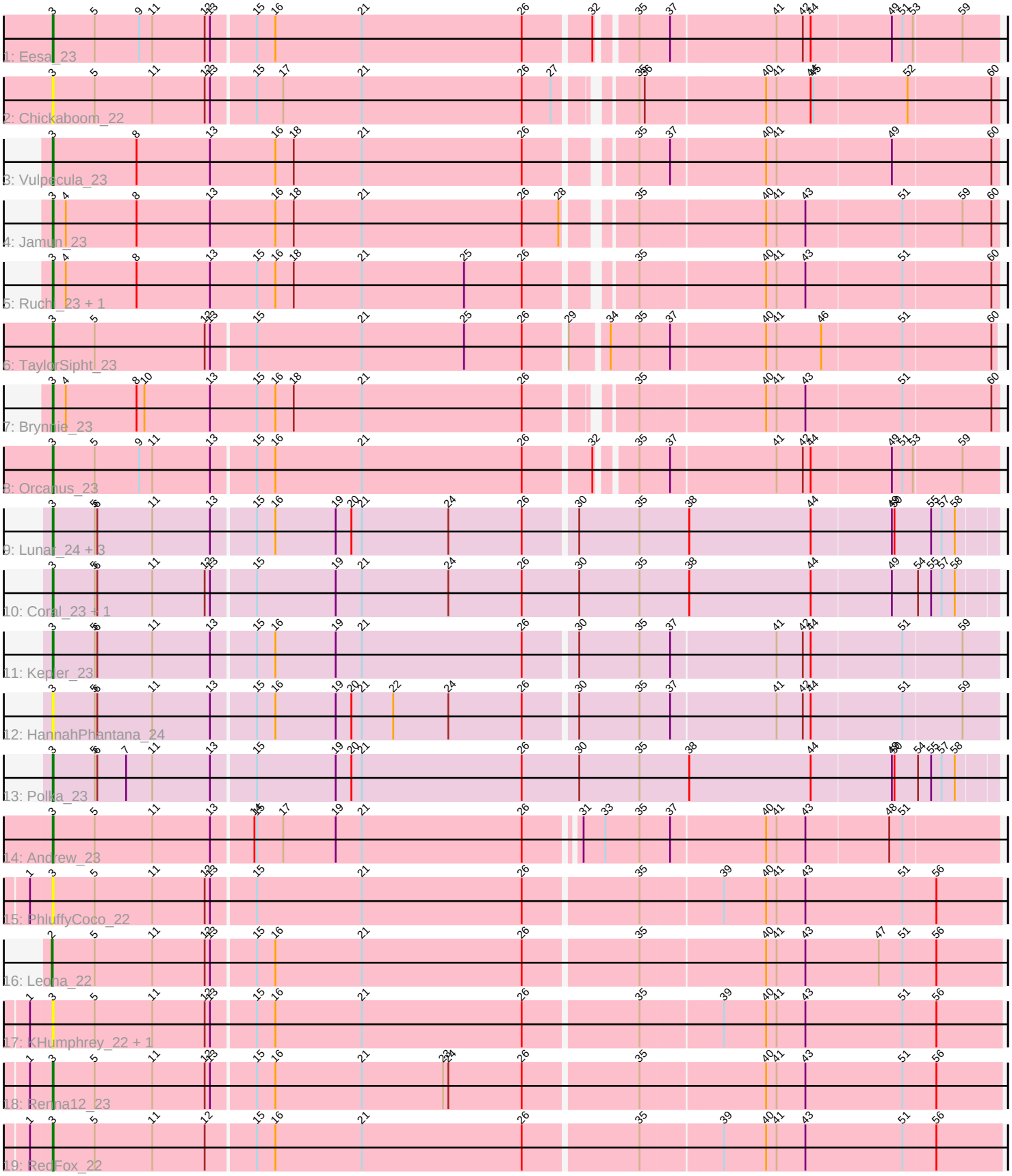
Pham 86610


1: Eesal_23
2: Chickaboom_22
3: Vulpecula_23
4: Jamun_23
5: Ruchi_23 + 1
6: TaylorSipht_23
7: Brynnie_23
8: Orcanus_23
9: Lunar_24 + 3
10: Coral_23 + 1
11: Kepler_23
12: HannahPhantana_24
13: Polka_23
14: Andrew_23
15: PhluffyCoco_22
16: Leona_22
17: KHumphrey_22 + 1
18: Renna12_23
19: RedFox_22

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 86610 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86610 has 25 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Eesa_23
• Track 2 : Chickaboom_22
• Track 3 : Vulpecula_23
• Track 4 : Jamun_23
• Track 5 : Ruchi_23, Basilisk_23
• Track 6 : TaylorSipht_23
• Track 7 : Brynnie_23
• Track 8 : Orcanus_23
• Track 9 : Lunar_24, Daob_24, Melons_24, Cote_24
• Track 10 : Coral_23, Amelia_24
• Track 11 : Kepler_23
• Track 12 : HannahPhantana_24
• Track 13 : Polka_23
• Track 14 : Andrew_23
• Track 15 : PhluffyCoco_22
• Track 16 : Leona_22
• Track 17 : KHumphrey_22, Juno112_22
• Track 18 : Renna12_23
• Track 19 : RedFox_22

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

The start number called the most often in the published annotations is 3, it was called in 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_24, Andrew_23, Basilisk_23, Brynnie_23, Chickaboom_22, Coral_23, Cote_24, Daob_24, Eesa_23, HannahPhantana_24, Jamun_23, Juno112_22, KHumphrey_22, Kepler_23, Lunar_24, Melons_24, Orcanus_23, PhluffyCoco_22, Polka_23, RedFox_22, Renna12_23, Ruchi_23, TaylorSipht_23, Vulpecula_23,

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

Genes that do not have the "Most Annotated" start:
• Leona_22,

Summary by start number:

Start 2:
• Found in 1 of 25 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Leona_22 (AS3),

Start 3:
• Found in 24 of 25 (96.0%) of genes in pham
• Manual Annotations of this start: 19 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_24 (AS2), Andrew_23 (AS3), Basilisk_23 (AS1), Brynnie_23 (AS1), Chickaboom_22 (AS1), Coral_23 (AS2), Cote_24 (AS2), Daob_24 (AS2), Eesa_23 (AS1), HannahPhantana_24 (AS2), Jamun_23 (AS1), Juno112_22 (AS3), KHumphrey_22 (AS3), Kepler_23 (AS2), Lunar_24 (AS2), Melons_24 (AS2), Orcanus_23 (AS1), PhluffyCoco_22 (AS3), Polka_23 (AS2), RedFox_22 (AS3), Renna12_23 (AS3), Ruchi_23 (AS1), TaylorSipht_23 (AS1), Vulpecula_23 (AS1),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 3 was manually annotated 8 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 3 was manually annotated 8 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 2 was manually annotated 1 time for cluster AS3.
•Start number 3 was manually annotated 3 times for cluster AS3.

Gene Information:

Gene: Amelia_24 Start: 16976, Stop: 18043, Start Num: 3
Candidate Starts for Amelia_24:
(Start: 3 @16976 has 19 MA's), (5, 17024), (6, 17027), (11, 17090), (12, 17150), (13, 17156), (15, 17204), (19, 17294), (21, 17324), (24, 17423), (26, 17507), (30, 17573), (35, 17642), (38, 17699), (44, 17837), (49, 17927), (54, 17957), (55, 17972), (57, 17984), (58, 17999),

Gene: Andrew_23 Start: 16999, Stop: 18045, Start Num: 3
Candidate Starts for Andrew_23:
(Start: 3 @16999 has 19 MA's), (5, 17047), (11, 17113), (13, 17179), (14, 17224), (15, 17227), (17, 17257), (19, 17317), (21, 17347), (26, 17530), (31, 17584), (33, 17608), (35, 17647), (37, 17680), (40, 17785), (41, 17797), (43, 17830), (48, 17923), (51, 17938),

Gene: Basilisk_23 Start: 18276, Stop: 19316, Start Num: 3
Candidate Starts for Basilisk_23:
(Start: 3 @18276 has 19 MA's), (4, 18291), (8, 18372), (13, 18456), (15, 18510), (16, 18531), (18, 18552), (21, 18630), (25, 18747), (26, 18813), (35, 18918), (40, 19056), (41, 19068), (43, 19101), (51, 19209), (60, 19308),

Gene: Brynnie_23 Start: 18087, Stop: 19124, Start Num: 3
Candidate Starts for Brynnie_23:
(Start: 3 @18087 has 19 MA's), (4, 18102), (8, 18183), (10, 18192), (13, 18267), (15, 18321), (16, 18342), (18, 18363), (21, 18441), (26, 18624), (35, 18726), (40, 18864), (41, 18876), (43, 18909), (51, 19017), (60, 19116),

Gene: Chickaboom_22 Start: 17014, Stop: 18045, Start Num: 3
Candidate Starts for Chickaboom_22:
(Start: 3 @17014 has 19 MA's), (5, 17062), (11, 17128), (12, 17188), (13, 17194), (15, 17242), (17, 17272), (21, 17362), (26, 17545), (27, 17578), (35, 17647), (36, 17653), (40, 17785), (41, 17797), (44, 17836), (45, 17839), (52, 17944), (60, 18037),

Gene: Coral_23 Start: 16815, Stop: 17882, Start Num: 3
Candidate Starts for Coral_23:
(Start: 3 @16815 has 19 MA's), (5, 16863), (6, 16866), (11, 16929), (12, 16989), (13, 16995), (15, 17043), (19, 17133), (21, 17163), (24, 17262), (26, 17346), (30, 17412), (35, 17481), (38, 17538), (44, 17676), (49, 17766), (54, 17796), (55, 17811), (57, 17823), (58, 17838),

Gene: Cote_24 Start: 16976, Stop: 18034, Start Num: 3
Candidate Starts for Cote_24:
(Start: 3 @16976 has 19 MA's), (5, 17024), (6, 17027), (11, 17090), (13, 17156), (15, 17204), (16, 17225), (19, 17294), (20, 17312), (21, 17324), (24, 17423), (26, 17507), (30, 17564), (35, 17633), (38, 17690), (44, 17828), (49, 17918), (50, 17921), (55, 17963), (57, 17975), (58, 17990),

Gene: Daob_24 Start: 16981, Stop: 18039, Start Num: 3
Candidate Starts for Daob_24:
(Start: 3 @16981 has 19 MA's), (5, 17029), (6, 17032), (11, 17095), (13, 17161), (15, 17209), (16, 17230), (19, 17299), (20, 17317), (21, 17329), (24, 17428), (26, 17512), (30, 17569), (35, 17638), (38, 17695), (44, 17833), (49, 17923), (50, 17926), (55, 17968), (57, 17980), (58, 17995),

Gene: Eesa_23 Start: 18236, Stop: 19273, Start Num: 3
Candidate Starts for Eesa_23:
(Start: 3 @18236 has 19 MA's), (5, 18284), (9, 18335), (11, 18350), (12, 18410), (13, 18416), (15, 18464), (16, 18485), (21, 18584), (26, 18767), (32, 18839), (35, 18875), (37, 18908), (41, 19025), (42, 19055), (44, 19064), (49, 19154), (51, 19166), (53, 19178), (59, 19232),

Gene: HannahPhantana_24 Start: 16979, Stop: 18034, Start Num: 3
Candidate Starts for HannahPhantana_24:
(Start: 3 @16979 has 19 MA's), (5, 17027), (6, 17030), (11, 17093), (13, 17159), (15, 17207), (16, 17228), (19, 17297), (20, 17315), (21, 17327), (22, 17363), (24, 17426), (26, 17510), (30, 17567), (35, 17636), (37, 17669), (41, 17786), (42, 17816), (44, 17825), (51, 17927), (59, 17993),

Gene: Jamun_23 Start: 17682, Stop: 18722, Start Num: 3
Candidate Starts for Jamun_23:
(Start: 3 @17682 has 19 MA's), (4, 17697), (8, 17778), (13, 17862), (16, 17937), (18, 17958), (21, 18036), (26, 18219), (28, 18261), (35, 18324), (40, 18462), (41, 18474), (43, 18507), (51, 18615), (59, 18681), (60, 18714),

Gene: Juno112_22 Start: 16562, Stop: 17629, Start Num: 3
Candidate Starts for Juno112_22:
(1, 16538), (Start: 3 @16562 has 19 MA's), (5, 16610), (11, 16676), (12, 16736), (13, 16742), (15, 16790), (16, 16811), (21, 16910), (26, 17093), (35, 17219), (39, 17309), (40, 17357), (41, 17369), (43, 17402), (51, 17513), (56, 17549),

Gene: KHumphrey_22 Start: 16559, Stop: 17620, Start Num: 3
Candidate Starts for KHumphrey_22:
(1, 16535), (Start: 3 @16559 has 19 MA's), (5, 16607), (11, 16673), (12, 16733), (13, 16739), (15, 16787), (16, 16808), (21, 16907), (26, 17090), (35, 17216), (39, 17306), (40, 17354), (41, 17366), (43, 17399), (51, 17510), (56, 17546),

Gene: Kepler_23 Start: 16814, Stop: 17869, Start Num: 3
Candidate Starts for Kepler_23:
(Start: 3 @16814 has 19 MA's), (5, 16862), (6, 16865), (11, 16928), (13, 16994), (15, 17042), (16, 17063), (19, 17132), (21, 17162), (26, 17345), (30, 17402), (35, 17471), (37, 17504), (41, 17621), (42, 17651), (44, 17660), (51, 17762), (59, 17828),

Gene: Leona_22 Start: 16621, Stop: 17682, Start Num: 2
Candidate Starts for Leona_22:
(Start: 2 @16621 has 1 MA's), (5, 16669), (11, 16735), (12, 16795), (13, 16801), (15, 16849), (16, 16870), (21, 16969), (26, 17152), (35, 17278), (40, 17416), (41, 17428), (43, 17461), (47, 17545), (51, 17572), (56, 17608),

Gene: Lunar_24 Start: 16976, Stop: 18034, Start Num: 3
Candidate Starts for Lunar_24:
(Start: 3 @16976 has 19 MA's), (5, 17024), (6, 17027), (11, 17090), (13, 17156), (15, 17204), (16, 17225), (19, 17294), (20, 17312), (21, 17324), (24, 17423), (26, 17507), (30, 17564), (35, 17633), (38, 17690), (44, 17828), (49, 17918), (50, 17921), (55, 17963), (57, 17975), (58, 17990),

Gene: Melons_24 Start: 16976, Stop: 18034, Start Num: 3
Candidate Starts for Melons_24:
(Start: 3 @16976 has 19 MA's), (5, 17024), (6, 17027), (11, 17090), (13, 17156), (15, 17204), (16, 17225), (19, 17294), (20, 17312), (21, 17324), (24, 17423), (26, 17507), (30, 17564), (35, 17633), (38, 17690), (44, 17828), (49, 17918), (50, 17921), (55, 17963), (57, 17975), (58, 17990),

Gene: Orcanus_23 Start: 17936, Stop: 18973, Start Num: 3
Candidate Starts for Orcanus_23:
(Start: 3 @17936 has 19 MA's), (5, 17984), (9, 18035), (11, 18050), (13, 18116), (15, 18164), (16, 18185), (21, 18284), (26, 18467), (32, 18539), (35, 18575), (37, 18608), (41, 18725), (42, 18755), (44, 18764), (49, 18854), (51, 18866), (53, 18878), (59, 18932),

Gene: PhluffyCoco_22 Start: 16561, Stop: 17622, Start Num: 3
Candidate Starts for PhluffyCoco_22:
(1, 16537), (Start: 3 @16561 has 19 MA's), (5, 16609), (11, 16675), (12, 16735), (13, 16741), (15, 16789), (21, 16909), (26, 17092), (35, 17218), (39, 17308), (40, 17356), (41, 17368), (43, 17401), (51, 17512), (56, 17548),

Gene: Polka_23 Start: 16822, Stop: 17889, Start Num: 3
Candidate Starts for Polka_23:
(Start: 3 @16822 has 19 MA's), (5, 16870), (6, 16873), (7, 16906), (11, 16936), (13, 17002), (15, 17050), (19, 17140), (20, 17158), (21, 17170), (26, 17353), (30, 17419), (35, 17488), (38, 17545), (44,

17683), (49, 17773), (50, 17776), (54, 17803), (55, 17818), (57, 17830), (58, 17845),

Gene: RedFox_22 Start: 16561, Stop: 17622, Start Num: 3
Candidate Starts for RedFox_22:
(1, 16537), (Start: 3 @16561 has 19 MA's), (5, 16609), (11, 16675), (12, 16735), (15, 16789), (16, 16810), (21, 16909), (26, 17092), (35, 17218), (39, 17308), (40, 17356), (41, 17368), (43, 17401), (51, 17512), (56, 17548),

Gene: Renna12_23 Start: 16914, Stop: 17975, Start Num: 3
Candidate Starts for Renna12_23:
(1, 16890), (Start: 3 @16914 has 19 MA's), (5, 16962), (11, 17028), (12, 17088), (13, 17094), (15, 17142), (16, 17163), (21, 17262), (23, 17355), (24, 17361), (26, 17445), (35, 17571), (40, 17709), (41, 17721), (43, 17754), (51, 17865), (56, 17901),

Gene: Ruchi_23 Start: 18222, Stop: 19262, Start Num: 3
Candidate Starts for Ruchi_23:
(Start: 3 @18222 has 19 MA's), (4, 18237), (8, 18318), (13, 18402), (15, 18456), (16, 18477), (18, 18498), (21, 18576), (25, 18693), (26, 18759), (35, 18864), (40, 19002), (41, 19014), (43, 19047), (51, 19155), (60, 19254),

Gene: TaylorSipht_23 Start: 16956, Stop: 17999, Start Num: 3
Candidate Starts for TaylorSipht_23:
(Start: 3 @16956 has 19 MA's), (5, 17004), (12, 17130), (13, 17136), (15, 17184), (21, 17304), (25, 17421), (26, 17487), (29, 17532), (34, 17571), (35, 17604), (37, 17637), (40, 17742), (41, 17754), (46, 17805), (51, 17895), (60, 17994),

Gene: Vulpecula_23 Start: 17680, Stop: 18720, Start Num: 3
Candidate Starts for Vulpecula_23:
(Start: 3 @17680 has 19 MA's), (8, 17776), (13, 17860), (16, 17935), (18, 17956), (21, 18034), (26, 18217), (35, 18322), (37, 18355), (40, 18460), (41, 18472), (49, 18601), (60, 18712),