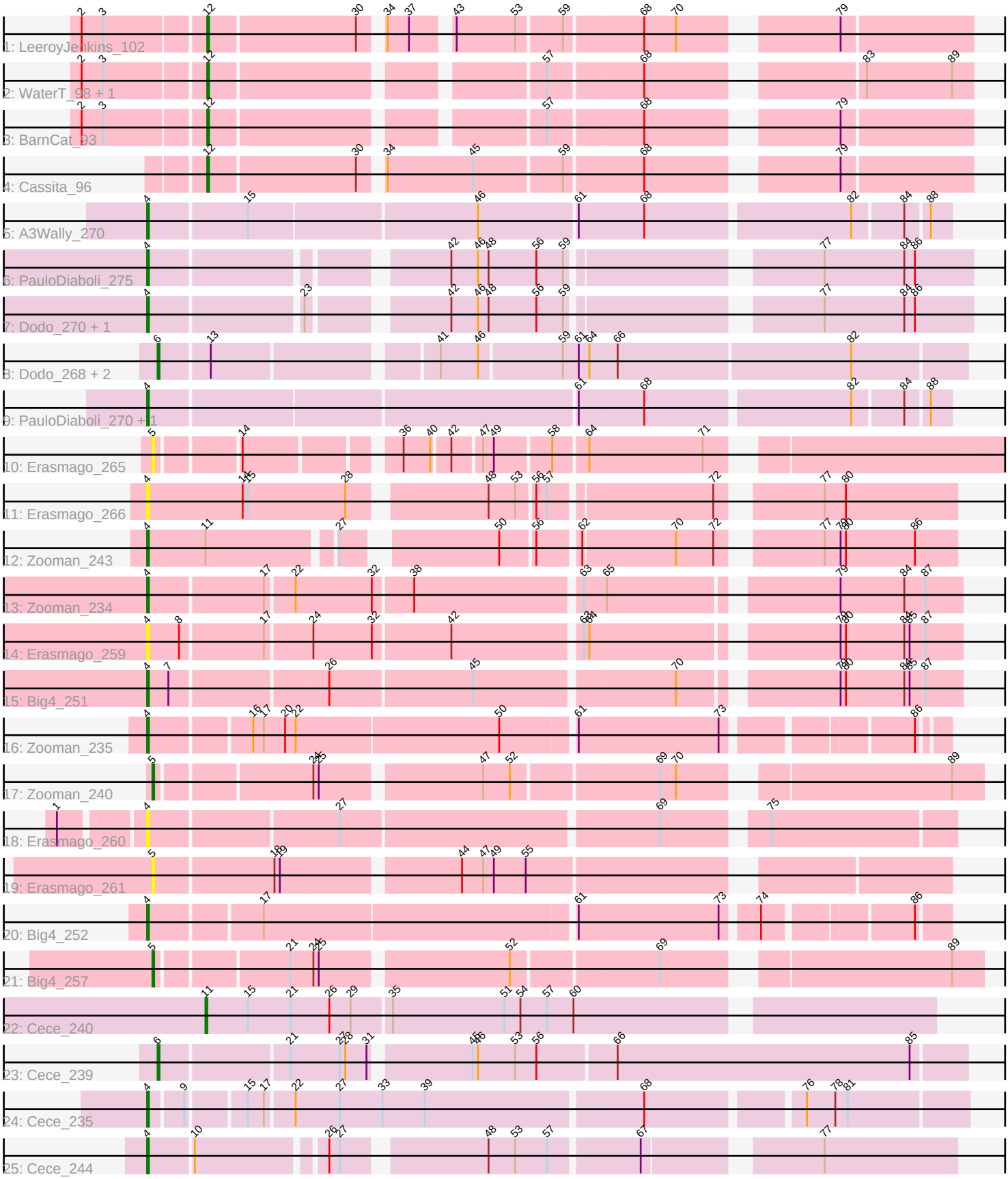
Pham 309044


1: LeeroyJenkins_102
2: WaterT_98 + 1
3: BarnCat_93
4: Cassita_96
5: A3Wally_270
6: PauloDiaboli_275
7: Dodo_270 + 1
8: Dodo_268 + 2
9: PauloDiaboli_270 + 1
10: Erasmago_265
11: Erasmago_266
12: Zooman_243
13: Zooman_234
14: Erasmago_259
15: Big4_251
16: Zooman_235
17: Zooman_240
18: Erasmago_260
19: Erasmago_261
20: Big4_252
21: Big4_257
22: Cece_240
23: Cece_239
24: Cece_235
25: Cece_244

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 309044 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309044 has 30 members, 5 are drafts.

Phages represented in each track:
- Track 1 : LeeroyJenkins_102
- Track 2 : WaterT_98, Lifes_94
- Track 3 : BarnCat_93
- Track 4 : Cassita_96
- Track 5 : A3Wally_270
- Track 6 : PauloDiaboli_275
- Track 7 : Dodo_270, A3Wally_275
- Track 8 : Dodo_268, A3Wally_273, PauloDiaboli_273
- Track 9 : PauloDiaboli_270, Dodo_265
- Track 10 : Erasmago_265
- Track 11 : Erasmago_266
- Track 12 : Zooman_243
- Track 13 : Zooman_234
- Track 14 : Erasmago_259
- Track 15 : Big4_251
- Track 16 : Zooman_235
- Track 17 : Zooman_240
- Track 18 : Erasmago_260
- Track 19 : Erasmago_261
- Track 20 : Big4_252
- Track 21 : Big4_257
- Track 22 : Cece_240
- Track 23 : Cece_239
- Track 24 : Cece_235
- Track 25 : Cece_244

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

The start number called the most often in the published annotations is 4, it was called in 13 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- A3Wally_270, A3Wally_275, Big4_251, Big4_252, Cece_235, Cece_244, Dodo_265, Dodo_270, Erasmago_259, Erasmago_260, Erasmago_266,

PauloDiaboli_270, PauloDiaboli_275, Zooman_234, Zooman_235, Zooman_243,

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

Genes that do not have the "Most Annotated" start:
• A3Wally_273, BarnCat_93, Big4_257, Cassita_96, Cece_239, Cece_240, Dodo_268, Erasmago_261, Erasmago_265, LeeroyJenkins_102, Lifes_94, PauloDiaboli_273, WaterT_98, Zooman_240,

Summary by start number:

Start 4:
• Found in 16 of 30 (53.3%) of genes in pham
• Manual Annotations of this start: 13 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_270 (GD1), A3Wally_275 (GD1), Big4_251 (GD2), Big4_252 (GD2), Cece_235 (GD3), Cece_244 (GD3), Dodo_265 (GD1), Dodo_270 (GD1), Erasmago_259 (GD2), Erasmago_260 (GD2), Erasmago_266 (GD2), PauloDiaboli_270 (GD1), PauloDiaboli_275 (GD1), Zooman_234 (GD2), Zooman_235 (GD2), Zooman_243 (GD2),

Start 5:
• Found in 4 of 30 (13.3%) of genes in pham
• Manual Annotations of this start: 2 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Big4_257 (GD2), Erasmago_261 (GD2), Erasmago_265 (GD2), Zooman_240 (GD2),

Start 6:
• Found in 4 of 30 (13.3%) of genes in pham
• Manual Annotations of this start: 4 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_273 (GD1), Cece_239 (GD3), Dodo_268 (GD1), PauloDiaboli_273 (GD1),

Start 11:
• Found in 2 of 30 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Cece_240 (GD3),

Start 12:
• Found in 5 of 30 (16.7%) of genes in pham
• Manual Annotations of this start: 5 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BarnCat_93 (GB), Cassita_96 (GB), LeeroyJenkins_102 (GB), Lifes_94 (GB), WaterT_98 (GB),

Summary by clusters:

There are 4 clusters represented in this pham: GD1, GD2, GD3, GB,

Info for manual annotations of cluster GB:
•Start number 12 was manually annotated 5 times for cluster GB.

Info for manual annotations of cluster GD1:
•Start number 4 was manually annotated 6 times for cluster GD1.
•Start number 6 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 4 was manually annotated 5 times for cluster GD2.
•Start number 5 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 4 was manually annotated 2 times for cluster GD3.
•Start number 6 was manually annotated 1 time for cluster GD3.
•Start number 11 was manually annotated 1 time for cluster GD3.

Gene Information:

Gene: A3Wally_270 Start: 148054, Stop: 148482, Start Num: 4
Candidate Starts for A3Wally_270:
(Start: 4 @148054 has 13 MA's), (15, 148108), (46, 148231), (61, 148285), (68, 148321), (82, 148432), (84, 148459), (88, 148471),

Gene: A3Wally_273 Start: 150031, Stop: 150459, Start Num: 6
Candidate Starts for A3Wally_273:
(Start: 6 @150031 has 4 MA's), (13, 150058), (41, 150172), (46, 150193), (59, 150238), (61, 150247), (64, 150253), (66, 150268), (82, 150397),

Gene: A3Wally_275 Start: 150902, Stop: 151321, Start Num: 4
Candidate Starts for A3Wally_275:
(Start: 4 @150902 has 13 MA's), (23, 150983), (42, 151049), (46, 151064), (48, 151070), (56, 151097), (59, 151112), (77, 151238), (84, 151283), (86, 151289),

Gene: BarnCat_93 Start: 51338, Stop: 50955, Start Num: 12
Candidate Starts for BarnCat_93:
(2, 51404), (3, 51392), (Start: 12 @51338 has 5 MA's), (57, 51170), (68, 51119), (79, 51026),

Gene: Big4_251 Start: 144012, Stop: 144440, Start Num: 4
Candidate Starts for Big4_251:
(Start: 4 @144012 has 13 MA's), (7, 144024), (26, 144108), (45, 144186), (70, 144294), (79, 144372), (80, 144375), (84, 144408), (85, 144411), (87, 144420),

Gene: Big4_252 Start: 144450, Stop: 144866, Start Num: 4
Candidate Starts for Big4_252:
(Start: 4 @144450 has 13 MA's), (17, 144510), (61, 144678), (73, 144756), (74, 144774), (86, 144849),

Gene: Big4_257 Start: 146896, Stop: 147318, Start Num: 5
Candidate Starts for Big4_257:
(Start: 5 @146896 has 2 MA's), (21, 146965), (24, 146977), (25, 146980), (52, 147079), (69, 147157), (89, 147301),

Gene: Cassita_96 Start: 52186, Stop: 51794, Start Num: 12
Candidate Starts for Cassita_96:
(Start: 12 @52186 has 5 MA's), (30, 52105), (34, 52096), (45, 52048), (59, 52000), (68, 51958), (79, 51865),

Gene: Cece_240 Start: 143936, Stop: 144328, Start Num: 11
Candidate Starts for Cece_240:
(Start: 11 @143936 has 1 MA's), (15, 143960), (21, 143984), (26, 144005), (29, 144017), (35, 144038), (51, 144101), (54, 144110), (57, 144125), (60, 144140),

Gene: Cece_239 Start: 143505, Stop: 143939, Start Num: 6
Candidate Starts for Cece_239:
(Start: 6 @143505 has 4 MA's), (21, 143574), (27, 143601), (28, 143604), (31, 143616), (45, 143667), (46, 143670), (53, 143691), (56, 143703), (66, 143745), (85, 143910),

Gene: Cece_235 Start: 141216, Stop: 141644, Start Num: 4
Candidate Starts for Cece_235:
(Start: 4 @141216 has 13 MA's), (9, 141234), (15, 141264), (17, 141273), (22, 141288), (27, 141312), (33, 141336), (39, 141360), (68, 141477), (76, 141558), (78, 141573), (81, 141579),

Gene: Cece_244 Start: 145566, Stop: 145976, Start Num: 4
Candidate Starts for Cece_244:
(Start: 4 @145566 has 13 MA's), (10, 145590), (26, 145656), (27, 145662), (48, 145734), (53, 145749), (57, 145767), (67, 145815), (77, 145902),

Gene: Dodo_270 Start: 150586, Stop: 151005, Start Num: 4
Candidate Starts for Dodo_270:
(Start: 4 @150586 has 13 MA's), (23, 150667), (42, 150733), (46, 150748), (48, 150754), (56, 150781), (59, 150796), (77, 150922), (84, 150967), (86, 150973),

Gene: Dodo_268 Start: 149715, Stop: 150143, Start Num: 6
Candidate Starts for Dodo_268:
(Start: 6 @149715 has 4 MA's), (13, 149742), (41, 149856), (46, 149877), (59, 149922), (61, 149931), (64, 149937), (66, 149952), (82, 150081),

Gene: Dodo_265 Start: 147738, Stop: 148166, Start Num: 4
Candidate Starts for Dodo_265:
(Start: 4 @147738 has 13 MA's), (61, 147969), (68, 148005), (82, 148116), (84, 148143), (88, 148155),

Gene: Erasmago_265 Start: 147639, Stop: 148061, Start Num: 5
Candidate Starts for Erasmago_265:
(Start: 5 @147639 has 2 MA's), (14, 147681), (36, 147756), (40, 147771), (42, 147780), (47, 147795), (49, 147801), (58, 147831), (64, 147849), (71, 147912),

Gene: Erasmago_266 Start: 148076, Stop: 148495, Start Num: 4
Candidate Starts for Erasmago_266:
(Start: 4 @148076 has 13 MA's), (14, 148130), (15, 148133), (28, 148187), (48, 148256), (53, 148271), (56, 148280), (57, 148286), (72, 148373), (77, 148421), (80, 148433),

Gene: Erasmago_259 Start: 144536, Stop: 144964, Start Num: 4
Candidate Starts for Erasmago_259:
(Start: 4 @144536 has 13 MA's), (8, 144554), (17, 144599), (24, 144623), (32, 144656), (42, 144698), (63, 144767), (64, 144770), (79, 144896), (80, 144899), (84, 144932), (85, 144935), (87, 144944),

Gene: Erasmago_260 Start: 144964, Stop: 145389, Start Num: 4
Candidate Starts for Erasmago_260:
(1, 144922), (Start: 4 @144964 has 13 MA's), (27, 145066), (69, 145237), (75, 145288),

Gene: Erasmago_261 Start: 145389, Stop: 145802, Start Num: 5
Candidate Starts for Erasmago_261:
(Start: 5 @145389 has 2 MA's), (18, 145455), (19, 145458), (44, 145551), (47, 145563), (49, 145569), (55, 145587),

Gene: LeeroyJenkins_102 Start: 53214, Stop: 52831, Start Num: 12
Candidate Starts for LeeroyJenkins_102:
(2, 53280), (3, 53268), (Start: 12 @53214 has 5 MA's), (30, 53133), (34, 53124), (37, 53112), (43, 53094), (53, 53061), (59, 53037), (68, 52995), (70, 52977), (79, 52902),

Gene: Lifes_94 Start: 50208, Stop: 49825, Start Num: 12
Candidate Starts for Lifes_94:
(2, 50274), (3, 50262), (Start: 12 @50208 has 5 MA's), (57, 50040), (68, 49989), (83, 49884), (89, 49836),

Gene: PauloDiaboli_275 Start: 148101, Stop: 148520, Start Num: 4
Candidate Starts for PauloDiaboli_275:
(Start: 4 @148101 has 13 MA's), (42, 148248), (46, 148263), (48, 148269), (56, 148296), (59, 148311), (77, 148437), (84, 148482), (86, 148488),

Gene: PauloDiaboli_270 Start: 145253, Stop: 145681, Start Num: 4
Candidate Starts for PauloDiaboli_270:
(Start: 4 @145253 has 13 MA's), (61, 145484), (68, 145520), (82, 145631), (84, 145658), (88, 145670),

Gene: PauloDiaboli_273 Start: 147230, Stop: 147658, Start Num: 6
Candidate Starts for PauloDiaboli_273:
(Start: 6 @147230 has 4 MA's), (13, 147257), (41, 147371), (46, 147392), (59, 147437), (61, 147446), (64, 147452), (66, 147467), (82, 147596),

Gene: WaterT_98 Start: 52153, Stop: 51770, Start Num: 12
Candidate Starts for WaterT_98:
(2, 52219), (3, 52207), (Start: 12 @52153 has 5 MA's), (57, 51985), (68, 51934), (83, 51829), (89, 51781),

Gene: Zooman_243 Start: 146605, Stop: 147012, Start Num: 4
Candidate Starts for Zooman_243:
(Start: 4 @146605 has 13 MA's), (Start: 11 @146638 has 1 MA's), (27, 146704), (50, 146779), (56, 146797), (62, 146818), (70, 146869), (72, 146890), (77, 146938), (79, 146947), (80, 146950), (86, 146989),

Gene: Zooman_234 Start: 142710, Stop: 143138, Start Num: 4
Candidate Starts for Zooman_234:
(Start: 4 @142710 has 13 MA's), (17, 142773), (22, 142788), (32, 142830), (38, 142851), (63, 142941), (65, 142953), (79, 143070), (84, 143106), (87, 143118),

Gene: Zooman_235 Start: 143148, Stop: 143561, Start Num: 4
Candidate Starts for Zooman_235:

(Start: 4 @143148 has 13 MA's), (16, 143202), (17, 143208), (20, 143220), (22, 143226), (50, 143337), (61, 143376), (73, 143454), (86, 143547),

Gene: Zooman_240 Start: 145582, Stop: 146004, Start Num: 5
Candidate Starts for Zooman_240:
(Start: 5 @145582 has 2 MA's), (24, 145663), (25, 145666), (47, 145750), (52, 145765), (69, 145843), (70, 145852), (89, 145987),