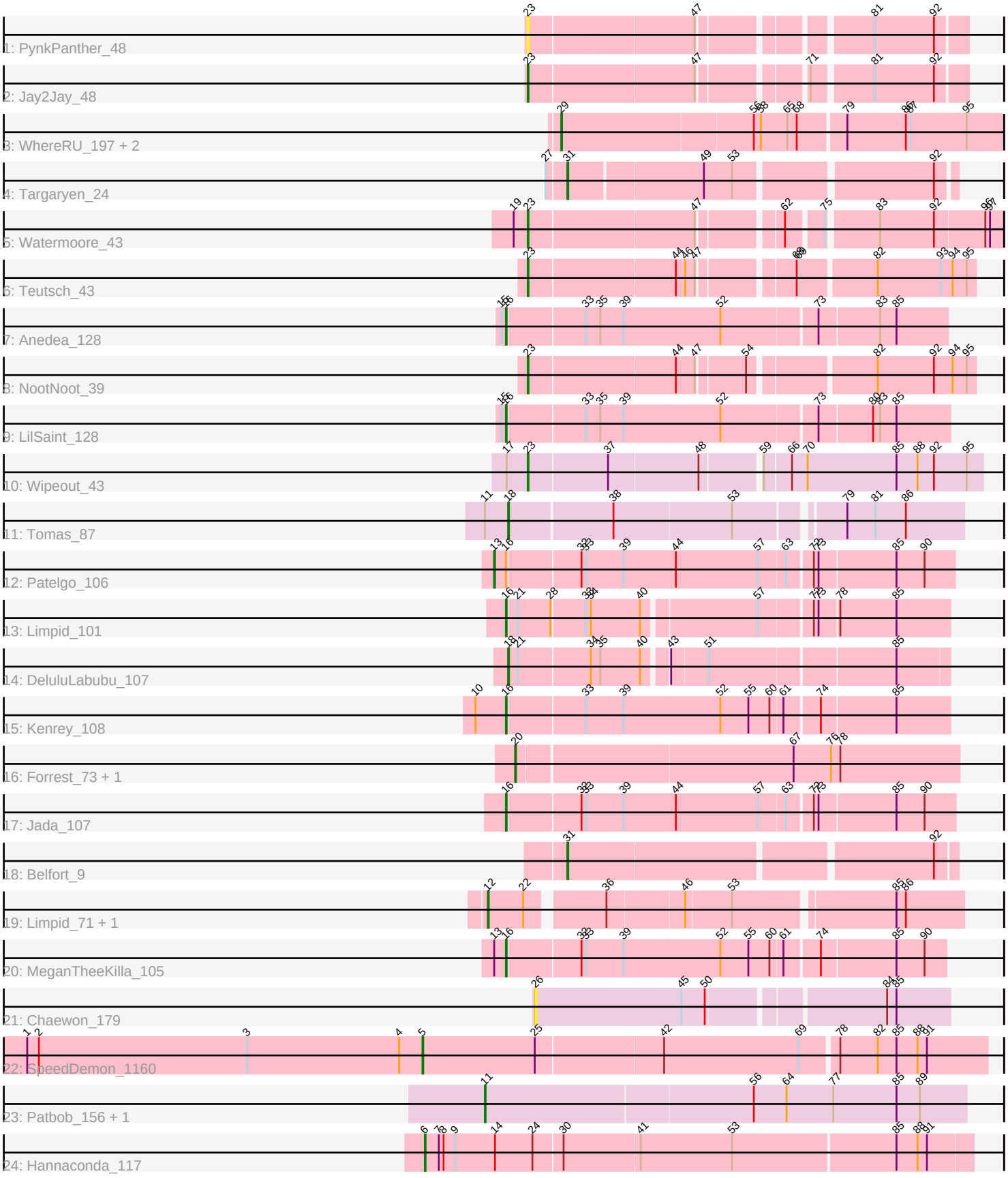
Pham 309061


1: PynkPanther_48
2: Jay2Jay_48
3: WhereRU_197 + 2
4: Targaryen_24
5: Watermoore_43
6: Teutsch_43
7: Anedea_128
8: NootNoot_39
9: LilSaint_128
10: Wipeout_43
11: Tomas_87
12: Patelgo_106
13: Limpid_101
14: DeluluLabubu_107
15: Kenrey_108
16: Forrest_73 + 1
17: Jada_107
18: Belfort_9
19: Limpid_71 + 1
20: MeganTheeKilla_105
21: Chaewon_179
22: SpeedDemon_1160
23: Patbob_156 + 1
24: Hannaconda_117

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 309061 Report

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

Pham number 309061 has 29 members, 2 are drafts.

Phages represented in each track:
- Track 1 : PynkPanther_48
- Track 2 : Jay2Jay_48
- Track 3 : WhereRU_197, Persimmon_199, Davielle_198
- Track 4 : Targaryen_24
- Track 5 : Watermoore_43
- Track 6 : Teutsch_43
- Track 7 : Anedea_128
- Track 8 : NootNoot_39
- Track 9 : LilSaint_128
- Track 10 : Wipeout_43
- Track 11 : Tomas_87
- Track 12 : Patelgo_106
- Track 13 : Limpid_101
- Track 14 : DeluluLabubu_107
- Track 15 : Kenrey_108
- Track 16 : Forrest_73, Jada_71
- Track 17 : Jada_107
- Track 18 : Belfort_9
- Track 19 : Limpid_71, Annadreamy_72
- Track 20 : MeganTheeKilla_105
- Track 21 : Chaewon_179
- Track 22 : SpeedDemon_1160
- Track 23 : Patbob_156, Mimi_160
- Track 24 : Hannaconda_117

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

The start number called the most often in the published annotations is 16, it was called in 6 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Anedea_128, Jada_107, Kenrey_108, LilSaint_128, Limpid_101, MeganTheeKilla_105,

Genes that have the "Most Annotated" start but do not call it:
• Patelgo_106,

Genes that do not have the "Most Annotated" start:
• Annadreamy_72, Belfort_9, Chaewon_179, Davielle_198, DeluluLabubu_107, Forrest_73, Hannaconda_117, Jada_71, Jay2Jay_48, Limpid_71, Mimi_160, NootNoot_39, Patbob_156, Persimmon_199, PynkPanther_48, SpeedDemon_1160, Targaryen_24, Teutsch_43, Tomas_87, Watermoore_43, WhereRU_197, Wipeout_43,

Summary by start number:

Start 5:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SpeedDemon_1160 (DL),

Start 6:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hannaconda_117 (J),

Start 11:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Mimi_160 (FC), Patbob_156 (FC),

Start 12:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_72 (BK1), Limpid_71 (BK1),

Start 13:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Patelgo_106 (BK1),

Start 16:
• Found in 7 of 29 (24.1%) of genes in pham
• Manual Annotations of this start: 6 of 27
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Anedea_128 (BE1), Jada_107 (BK1), Kenrey_108 (BK1), LilSaint_128 (BE1), Limpid_101 (BK1), MeganTheeKilla_105 (BK1),

Start 18:
• Found in 2 of 29 (6.9%) of genes in pham

• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DeluluLabubu_107 (BK1), Tomas_87 (BE2),

Start 20:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Forrest_73 (BK1), Jada_71 (BK1),

Start 23:
• Found in 6 of 29 (20.7%) of genes in pham
• Manual Annotations of this start: 5 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jay2Jay_48 (BE1), NootNoot_39 (BE1), PynkPanther_48 (BE1), Teutsch_43 (BE1), Watermoore_43 (BE1), Wipeout_43 (BE2),

Start 26:
• Found in 1 of 29 (3.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chaewon_179 (BK2),

Start 29:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 3 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Davielle_198 (BE1), Persimmon_199 (BE1), WhereRU_197 (BE1),

Start 31:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 2 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belfort_9 (BK1), Targaryen_24 (BE1),

Summary by clusters:

There are 7 clusters represented in this pham: DL, J, FC, BK1, BK2, BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 16 was manually annotated 2 times for cluster BE1.
•Start number 23 was manually annotated 4 times for cluster BE1.
•Start number 29 was manually annotated 3 times for cluster BE1.
•Start number 31 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 18 was manually annotated 1 time for cluster BE2.
•Start number 23 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:

•Start number 12 was manually annotated 2 times for cluster BK1.
•Start number 13 was manually annotated 1 time for cluster BK1.
•Start number 16 was manually annotated 4 times for cluster BK1.
•Start number 18 was manually annotated 1 time for cluster BK1.
•Start number 20 was manually annotated 2 times for cluster BK1.
•Start number 31 was manually annotated 1 time for cluster BK1.

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

Info for manual annotations of cluster FC:
•Start number 11 was manually annotated 2 times for cluster FC.

Info for manual annotations of cluster J:
•Start number 6 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Anedea_128 Start: 81542, Stop: 82087, Start Num: 16
Candidate Starts for Anedea_128:
(15, 81536), (Start: 16 @81542 has 6 MA's), (33, 81638), (35, 81656), (39, 81686), (52, 81809), (73, 81926), (83, 82001), (85, 82022),

Gene: Annadreamy_72 Start: 56345, Stop: 56905, Start Num: 12
Candidate Starts for Annadreamy_72:
(Start: 12 @56345 has 2 MA's), (22, 56390), (36, 56477), (46, 56570), (53, 56627), (85, 56819), (86, 56831),

Gene: Belfort_9 Start: 3515, Stop: 3048, Start Num: 31
Candidate Starts for Belfort_9:
(Start: 31 @3515 has 2 MA's), (92, 3074),

Gene: Chaewon_179 Start: 97733, Stop: 98239, Start Num: 26
Candidate Starts for Chaewon_179:
(26, 97733), (45, 97919), (50, 97949), (84, 98159), (85, 98171),

Gene: Davielle_198 Start: 102837, Stop: 103376, Start Num: 29
Candidate Starts for Davielle_198:
(Start: 29 @102837 has 3 MA's), (56, 103074), (58, 103083), (65, 103116), (68, 103128), (79, 103182), (86, 103257), (87, 103263), (95, 103332),

Gene: DeluluLabubu_107 Start: 70442, Stop: 70972, Start Num: 18
Candidate Starts for DeluluLabubu_107:
(Start: 18 @70442 has 2 MA's), (21, 70454), (34, 70544), (35, 70556), (40, 70607), (43, 70634), (51, 70679), (85, 70907),

Gene: Forrest_73 Start: 55828, Stop: 56376, Start Num: 20
Candidate Starts for Forrest_73:
(Start: 20 @55828 has 2 MA's), (67, 56167), (76, 56212), (78, 56224),

Gene: Hannaconda_117 Start: 66125, Stop: 66802, Start Num: 6
Candidate Starts for Hannaconda_117:
(Start: 6 @66125 has 1 MA's), (7, 66143), (8, 66146), (9, 66161), (14, 66212), (24, 66260), (30, 66296), (41, 66389), (53, 66506), (85, 66707), (88, 66734), (91, 66746),

Gene: Jada_71 Start: 55010, Stop: 55558, Start Num: 20
Candidate Starts for Jada_71:
(Start: 20 @55010 has 2 MA's), (67, 55349), (76, 55394), (78, 55406),

Gene: Jada_107 Start: 71023, Stop: 71577, Start Num: 16
Candidate Starts for Jada_107:
(Start: 16 @71023 has 6 MA's), (32, 71113), (33, 71119), (39, 71167), (44, 71233), (57, 71338), (63, 71371), (72, 71401), (73, 71407), (85, 71503), (90, 71539),

Gene: Jay2Jay_48 Start: 21945, Stop: 22448, Start Num: 23
Candidate Starts for Jay2Jay_48:
(Start: 23 @21945 has 5 MA's), (47, 22149), (71, 22263), (81, 22335), (92, 22410),

Gene: Kenrey_108 Start: 70741, Stop: 71289, Start Num: 16
Candidate Starts for Kenrey_108:
(10, 70702), (Start: 16 @70741 has 6 MA's), (33, 70837), (39, 70885), (52, 71008), (55, 71044), (60, 71071), (61, 71086), (74, 71128), (85, 71221),

Gene: LilSaint_128 Start: 81433, Stop: 81981, Start Num: 16
Candidate Starts for LilSaint_128:
(15, 81427), (Start: 16 @81433 has 6 MA's), (33, 81529), (35, 81547), (39, 81577), (52, 81700), (73, 81817), (80, 81883), (83, 81892), (85, 81913),

Gene: Limpid_101 Start: 70246, Stop: 70782, Start Num: 16
Candidate Starts for Limpid_101:
(Start: 16 @70246 has 6 MA's), (21, 70258), (28, 70300), (33, 70342), (34, 70348), (40, 70411), (57, 70549), (72, 70612), (73, 70618), (78, 70642), (85, 70714),

Gene: Limpid_71 Start: 56344, Stop: 56904, Start Num: 12
Candidate Starts for Limpid_71:
(Start: 12 @56344 has 2 MA's), (22, 56389), (36, 56476), (46, 56569), (53, 56626), (85, 56818), (86, 56830),

Gene: MeganTheeKilla_105 Start: 69866, Stop: 70408, Start Num: 16
Candidate Starts for MeganTheeKilla_105:
(Start: 13 @69851 has 1 MA's), (Start: 16 @69866 has 6 MA's), (32, 69956), (33, 69962), (39, 70010), (52, 70133), (55, 70169), (60, 70196), (61, 70211), (74, 70253), (85, 70346), (90, 70382),

Gene: Mimi_160 Start: 105068, Stop: 105673, Start Num: 11
Candidate Starts for Mimi_160:
(Start: 11 @105068 has 2 MA's), (56, 105401), (64, 105443), (77, 105503), (85, 105584), (89, 105614),

Gene: NootNoot_39 Start: 19334, Stop: 19861, Start Num: 23
Candidate Starts for NootNoot_39:
(Start: 23 @19334 has 5 MA's), (44, 19514), (47, 19538), (54, 19595), (82, 19736), (92, 19808), (94, 19832), (95, 19850),

Gene: Patbob_156 Start: 105573, Stop: 106178, Start Num: 11

Candidate Starts for Patbob_156:
(Start: 11 @105573 has 2 MA's), (56, 105906), (64, 105948), (77, 106008), (85, 106089), (89, 106119),

Gene: Patelgo_106 Start: 72104, Stop: 72673, Start Num: 13
Candidate Starts for Patelgo_106:
(Start: 13 @72104 has 1 MA's), (Start: 16 @72119 has 6 MA's), (32, 72209), (33, 72215), (39, 72263), (44, 72329), (57, 72434), (63, 72467), (72, 72497), (73, 72503), (85, 72599), (90, 72635),

Gene: Persimmon_199 Start: 102263, Stop: 102802, Start Num: 29
Candidate Starts for Persimmon_199:
(Start: 29 @102263 has 3 MA's), (56, 102500), (58, 102509), (65, 102542), (68, 102554), (79, 102608), (86, 102683), (87, 102689), (95, 102758),

Gene: PynkPanther_48 Start: 20500, Stop: 21003, Start Num: 23
Candidate Starts for PynkPanther_48:
(Start: 23 @20500 has 5 MA's), (47, 20704), (81, 20890), (92, 20965),

Gene: SpeedDemon_1160 Start: 75139, Stop: 75840, Start Num: 5
Candidate Starts for SpeedDemon_1160:
(1, 74632), (2, 74647), (3, 74914), (4, 75109), (Start: 5 @75139 has 1 MA's), (25, 75283), (42, 75439), (69, 75610), (78, 75652), (82, 75700), (85, 75724), (88, 75751), (91, 75763),

Gene: Targaryen_24 Start: 12646, Stop: 12188, Start Num: 31
Candidate Starts for Targaryen_24:
(27, 12670), (Start: 31 @12646 has 2 MA's), (49, 12481), (53, 12445), (92, 12211),

Gene: Teutsch_43 Start: 21423, Stop: 21950, Start Num: 23
Candidate Starts for Teutsch_43:
(Start: 23 @21423 has 5 MA's), (44, 21603), (46, 21615), (47, 21627), (68, 21732), (69, 21735), (82, 21825), (93, 21906), (94, 21921), (95, 21939),

Gene: Tomas_87 Start: 64686, Stop: 65225, Start Num: 18
Candidate Starts for Tomas_87:
(Start: 11 @64656 has 2 MA's), (Start: 18 @64686 has 2 MA's), (38, 64812), (53, 64959), (79, 65079), (81, 65115), (86, 65154),

Gene: Watermoore_43 Start: 21631, Stop: 22182, Start Num: 23
Candidate Starts for Watermoore_43:
(19, 21613), (Start: 23 @21631 has 5 MA's), (47, 21835), (62, 21925), (75, 21967), (83, 22027), (92, 22096), (96, 22159), (97, 22165),

Gene: WhereRU_197 Start: 102837, Stop: 103376, Start Num: 29
Candidate Starts for WhereRU_197:
(Start: 29 @102837 has 3 MA's), (56, 103074), (58, 103083), (65, 103116), (68, 103128), (79, 103182), (86, 103257), (87, 103263), (95, 103332),

Gene: Wipeout_43 Start: 21273, Stop: 21818, Start Num: 23
Candidate Starts for Wipeout_43:
(17, 21246), (Start: 23 @21273 has 5 MA's), (37, 21369), (48, 21477), (59, 21546), (66, 21576), (70, 21594), (85, 21708), (88, 21735), (92, 21756), (95, 21798),