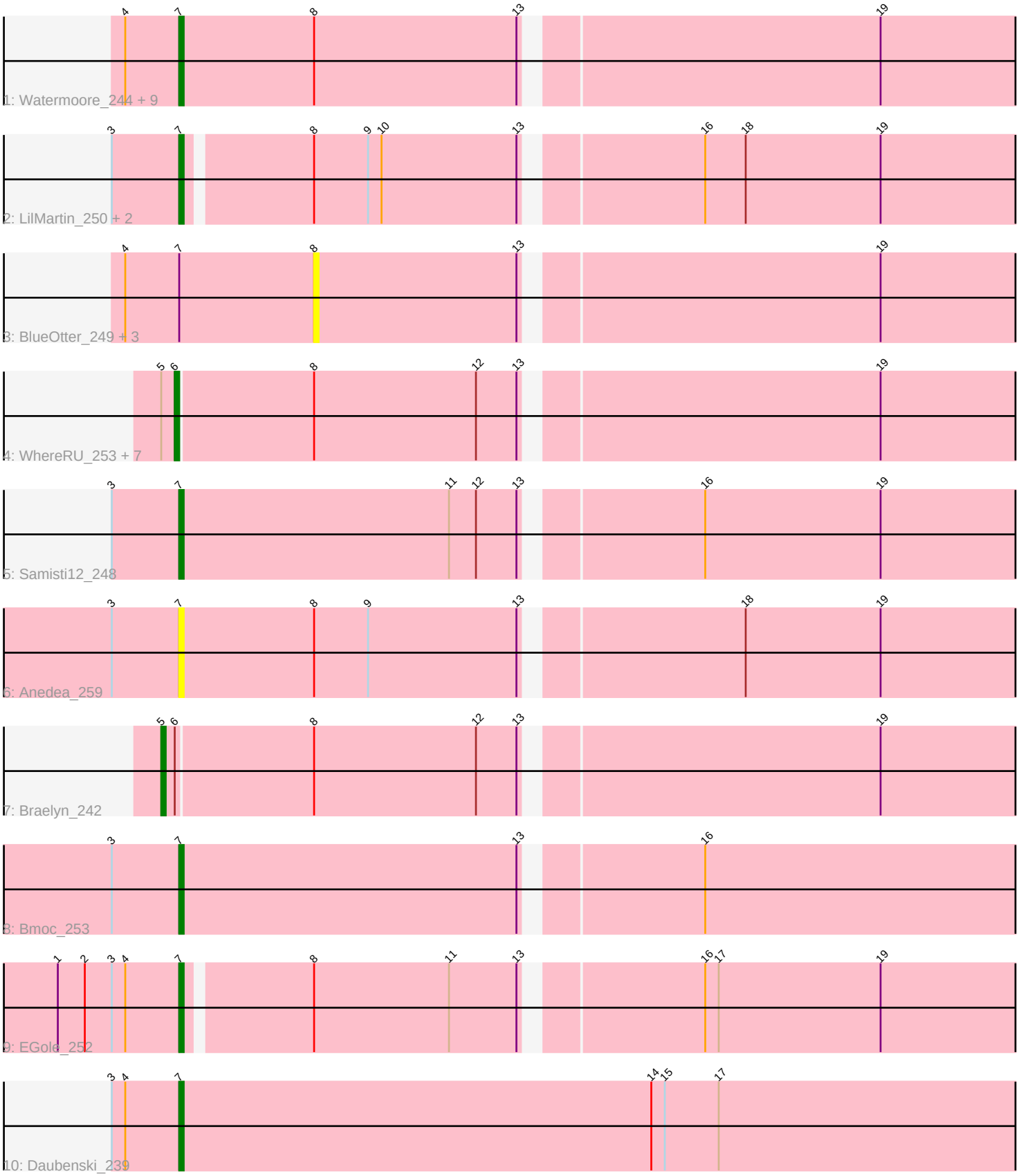
Pham 86491


4 7 8 13 19
1: Watermoore_244 + 9
3 7 8 9 10 13 16 18 19
2: LilMartin_250 + 2
4 7 8 13 19
3: BlueOtter_249 + 3
5 6 8 12 13 19
4: WhereRU_253 + 7
3 7 11 12 13 16 19
5: Samisti12_248
3 7 8 9 13 18 19
6: Anedea_259
5 6 8 12 13 19
7: Braelyn_242
3 7 13 16
8: Bmoc_253
1 2 3 4 7 8 11 13 16 17 19
9: EGole_252
3 4 7 14 15 17
10: Daubenski_239

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 86491 Report

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

Pham number 86491 has 31 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Watermoore_244, Peebs_243, Leo04_248, Pepperwood_246, Tribute_242, Larnav_255, Cross_245, Teutsch_245, Cursive_251, Sushi23_247
• Track 2 : LilMartin_250, Angela_254, MulchMansion_254
• Track 3 : BlueOtter_249, PacManQ_248, Lululemon_247, HangryHippo_249
• Track 4 : WhereRU_253, Squillium_248, Persimmon_248, Bartholomune_246, NootNoot_242, Liandry_245, Navo_247, PinkiePie_246
• Track 5 : Samisti12_248
• Track 6 : Anedea_259
• Track 7 : Braelyn_242
• Track 8 : Bmoc_253
• Track 9 : EGole_252
• Track 10 : Daubenski_239

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

The start number called the most often in the published annotations is 7, it was called in 16 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anedea_259, Angela_254, Bmoc_253, Cross_245, Cursive_251, Daubenski_239, EGole_252, Larnav_255, Leo04_248, LilMartin_250, MulchMansion_254, Peebs_243, Pepperwood_246, Samisti12_248, Sushi23_247, Teutsch_245, Tribute_242, Watermoore_244,

Genes that have the "Most Annotated" start but do not call it:
• BlueOtter_249, HangryHippo_249, Lululemon_247, PacManQ_248,

Genes that do not have the "Most Annotated" start:
• Bartholomune_246, Braelyn_242, Liandry_245, Navo_247, NootNoot_242, Persimmon_248, PinkiePie_246, Squillium_248, WhereRU_253,

Summary by start number:

Start 5:

• Found in 9 of 31 (29.0%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Braelyn_242 (BE1),

Start 6:
• Found in 9 of 31 (29.0%) of genes in pham
• Manual Annotations of this start: 6 of 23
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Bartholomune_246 (BE1), Liandry_245 (BE1), Navo_247 (BE1), NootNoot_242 (BE1), Persimmon_248 (BE1), PinkiePie_246 (BE1), Squillium_248 (BE1), WhereRU_253 (BE1),

Start 7:
• Found in 22 of 31 (71.0%) of genes in pham
• Manual Annotations of this start: 16 of 23
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Anedea_259 (BE1), Angela_254 (BE1), Bmoc_253 (BE1), Cross_245 (BE1), Cursive_251 (BE1), Daubenski_239 (BE1), EGole_252 (BE1), Larnav_255 (BE1), Leo04_248 (BE1), LilMartin_250 (BE1), MulchMansion_254 (BE1), Peebs_243 (BE1), Pepperwood_246 (BE1), Samisti12_248 (BE1), Sushi23_247 (BE1), Teutsch_245 (BE1), Tribute_242 (BE1), Watermoore_244 (BE1),

Start 8:
• Found in 28 of 31 (90.3%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: BlueOtter_249 (BE1), HangryHippo_249 (BE1), Lululemon_247 (BE1), PacManQ_248 (BE1),

Summary by clusters:

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:
•Start number 5 was manually annotated 1 time for cluster BE1.
•Start number 6 was manually annotated 6 times for cluster BE1.
•Start number 7 was manually annotated 16 times for cluster BE1.

Gene Information:

Gene: Anedea_259 Start: 121806, Stop: 122027, Start Num: 7
Candidate Starts for Anedea_259:
(3, 121791), (Start: 7 @121806 has 16 MA's), (8, 121836), (9, 121848), (13, 121881), (18, 121926), (19, 121956),

Gene: Angela_254 Start: 121149, Stop: 121367, Start Num: 7
Candidate Starts for Angela_254:
(3, 121134), (Start: 7 @121149 has 16 MA's), (8, 121176), (9, 121188), (10, 121191), (13, 121221), (16, 121257), (18, 121266), (19, 121296),

Gene: Bartholomune_246 Start: 119793, Stop: 120014, Start Num: 6
Candidate Starts for Bartholomune_246:
(Start: 5 @119790 has 1 MA's), (Start: 6 @119793 has 6 MA's), (8, 119823), (12, 119859), (13, 119868), (19, 119943),

Gene: BlueOtter_249 Start: 119845, Stop: 120036, Start Num: 8
Candidate Starts for BlueOtter_249:
(4, 119803), (Start: 7 @119815 has 16 MA's), (8, 119845), (13, 119890), (19, 119965),

Gene: Bmoc_253 Start: 120586, Stop: 120807, Start Num: 7
Candidate Starts for Bmoc_253:
(3, 120571), (Start: 7 @120586 has 16 MA's), (13, 120661), (16, 120697),

Gene: Braelyn_242 Start: 119124, Stop: 119348, Start Num: 5
Candidate Starts for Braelyn_242:
(Start: 5 @119124 has 1 MA's), (Start: 6 @119127 has 6 MA's), (8, 119157), (12, 119193), (13, 119202), (19, 119277),

Gene: Cross_245 Start: 120460, Stop: 120681, Start Num: 7
Candidate Starts for Cross_245:
(4, 120448), (Start: 7 @120460 has 16 MA's), (8, 120490), (13, 120535), (19, 120610),

Gene: Cursive_251 Start: 120737, Stop: 120958, Start Num: 7
Candidate Starts for Cursive_251:
(4, 120725), (Start: 7 @120737 has 16 MA's), (8, 120767), (13, 120812), (19, 120887),

Gene: Daubenski_239 Start: 121100, Stop: 121327, Start Num: 7
Candidate Starts for Daubenski_239:
(3, 121085), (4, 121088), (Start: 7 @121100 has 16 MA's), (14, 121205), (15, 121208), (17, 121220),

Gene: EGole_252 Start: 123041, Stop: 123259, Start Num: 7
Candidate Starts for EGole_252:
(1, 123014), (2, 123020), (3, 123026), (4, 123029), (Start: 7 @123041 has 16 MA's), (8, 123068), (11, 123098), (13, 123113), (16, 123149), (17, 123152), (19, 123188),

Gene: HangryHippo_249 Start: 119845, Stop: 120036, Start Num: 8
Candidate Starts for HangryHippo_249:
(4, 119803), (Start: 7 @119815 has 16 MA's), (8, 119845), (13, 119890), (19, 119965),

Gene: Larnav_255 Start: 120733, Stop: 120954, Start Num: 7
Candidate Starts for Larnav_255:
(4, 120721), (Start: 7 @120733 has 16 MA's), (8, 120763), (13, 120808), (19, 120883),

Gene: Leo04_248 Start: 120846, Stop: 121067, Start Num: 7
Candidate Starts for Leo04_248:
(4, 120834), (Start: 7 @120846 has 16 MA's), (8, 120876), (13, 120921), (19, 120996),

Gene: Liandry_245 Start: 120214, Stop: 120435, Start Num: 6
Candidate Starts for Liandry_245:
(Start: 5 @120211 has 1 MA's), (Start: 6 @120214 has 6 MA's), (8, 120244), (12, 120280), (13, 120289), (19, 120364),

Gene: LilMartin_250 Start: 120089, Stop: 120307, Start Num: 7
Candidate Starts for LilMartin_250:
(3, 120074), (Start: 7 @120089 has 16 MA's), (8, 120116), (9, 120128), (10, 120131), (13, 120161), (16, 120197), (18, 120206), (19, 120236),

Gene: Lululemon_247 Start: 119650, Stop: 119841, Start Num: 8
Candidate Starts for Lululemon_247:
(4, 119608), (Start: 7 @119620 has 16 MA's), (8, 119650), (13, 119695), (19, 119770),

Gene: MulchMansion_254 Start: 121723, Stop: 121941, Start Num: 7
Candidate Starts for MulchMansion_254:
(3, 121708), (Start: 7 @121723 has 16 MA's), (8, 121750), (9, 121762), (10, 121765), (13, 121795), (16, 121831), (18, 121840), (19, 121870),

Gene: Navo_247 Start: 118331, Stop: 118552, Start Num: 6
Candidate Starts for Navo_247:
(Start: 5 @118328 has 1 MA's), (Start: 6 @118331 has 6 MA's), (8, 118361), (12, 118397), (13, 118406), (19, 118481),

Gene: NootNoot_242 Start: 119026, Stop: 119247, Start Num: 6
Candidate Starts for NootNoot_242:
(Start: 5 @119023 has 1 MA's), (Start: 6 @119026 has 6 MA's), (8, 119056), (12, 119092), (13, 119101), (19, 119176),

Gene: PacManQ_248 Start: 119650, Stop: 119841, Start Num: 8
Candidate Starts for PacManQ_248:
(4, 119608), (Start: 7 @119620 has 16 MA's), (8, 119650), (13, 119695), (19, 119770),

Gene: Peebs_243 Start: 120704, Stop: 120925, Start Num: 7
Candidate Starts for Peebs_243:
(4, 120692), (Start: 7 @120704 has 16 MA's), (8, 120734), (13, 120779), (19, 120854),

Gene: Pepperwood_246 Start: 120512, Stop: 120733, Start Num: 7
Candidate Starts for Pepperwood_246:
(4, 120500), (Start: 7 @120512 has 16 MA's), (8, 120542), (13, 120587), (19, 120662),

Gene: Persimmon_248 Start: 119528, Stop: 119749, Start Num: 6
Candidate Starts for Persimmon_248:
(Start: 5 @119525 has 1 MA's), (Start: 6 @119528 has 6 MA's), (8, 119558), (12, 119594), (13, 119603), (19, 119678),

Gene: PinkiePie_246 Start: 120214, Stop: 120435, Start Num: 6
Candidate Starts for PinkiePie_246:
(Start: 5 @120211 has 1 MA's), (Start: 6 @120214 has 6 MA's), (8, 120244), (12, 120280), (13, 120289), (19, 120364),

Gene: Samisti12_248 Start: 121769, Stop: 121990, Start Num: 7
Candidate Starts for Samisti12_248:
(3, 121754), (Start: 7 @121769 has 16 MA's), (11, 121829), (12, 121835), (13, 121844), (16, 121880), (19, 121919),

Gene: Squillium_248 Start: 120216, Stop: 120437, Start Num: 6
Candidate Starts for Squillium_248:

(Start: 5 @120213 has 1 MA's), (Start: 6 @120216 has 6 MA's), (8, 120246), (12, 120282), (13, 120291), (19, 120366),

Gene: Sushi23_247 Start: 121570, Stop: 121791, Start Num: 7
Candidate Starts for Sushi23_247:
(4, 121558), (Start: 7 @121570 has 16 MA's), (8, 121600), (13, 121645), (19, 121720),

Gene: Teutsch_245 Start: 120935, Stop: 121156, Start Num: 7
Candidate Starts for Teutsch_245:
(4, 120923), (Start: 7 @120935 has 16 MA's), (8, 120965), (13, 121010), (19, 121085),

Gene: Tribute_242 Start: 121270, Stop: 121491, Start Num: 7
Candidate Starts for Tribute_242:
(4, 121258), (Start: 7 @121270 has 16 MA's), (8, 121300), (13, 121345), (19, 121420),

Gene: Watermoore_244 Start: 121324, Stop: 121545, Start Num: 7
Candidate Starts for Watermoore_244:
(4, 121312), (Start: 7 @121324 has 16 MA's), (8, 121354), (13, 121399), (19, 121474),

Gene: WhereRU_253 Start: 119862, Stop: 120083, Start Num: 6
Candidate Starts for WhereRU_253:
(Start: 5 @119859 has 1 MA's), (Start: 6 @119862 has 6 MA's), (8, 119892), (12, 119928), (13, 119937), (19, 120012),