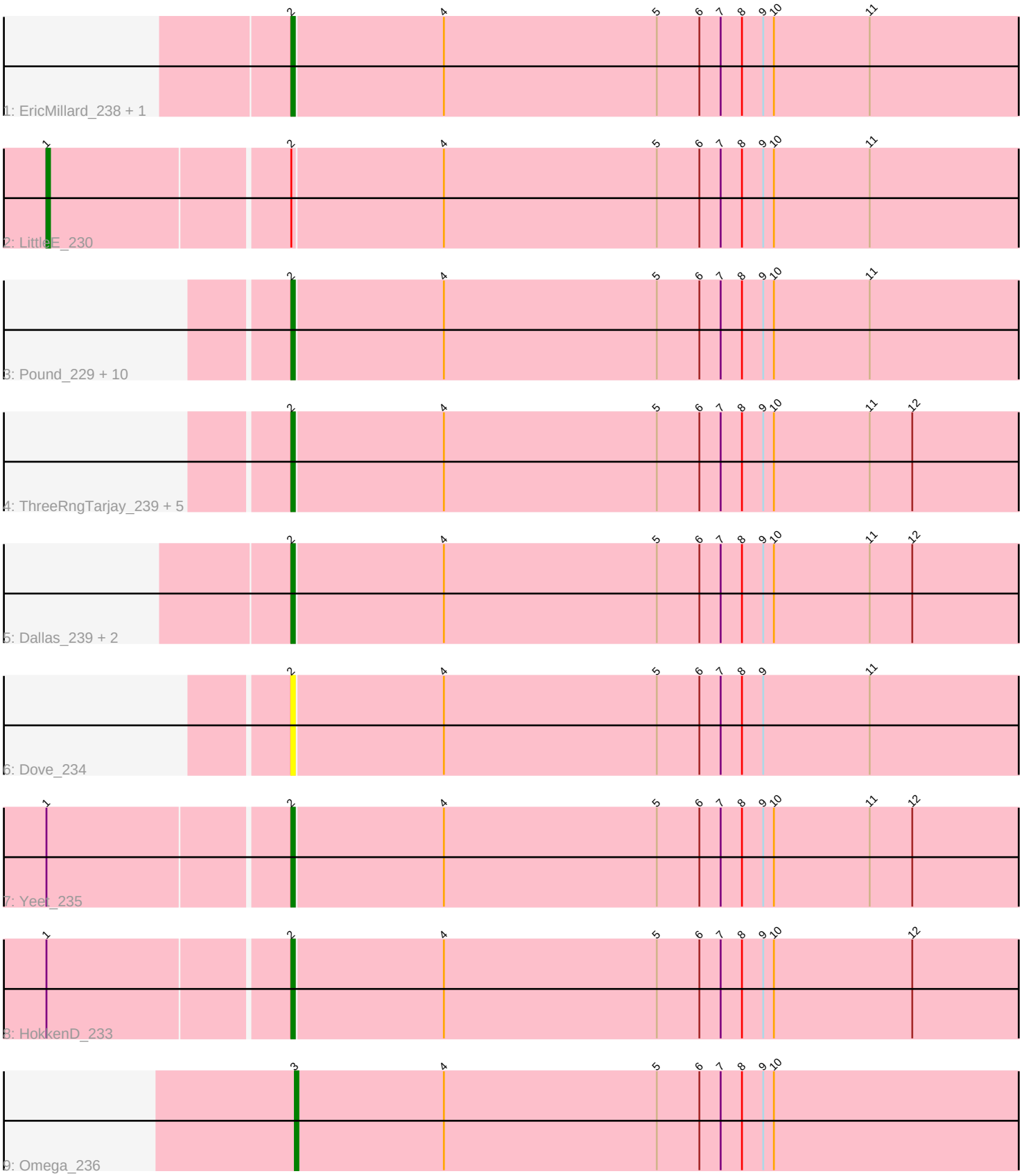
Pham 3048


1: EricMillard_238 + 1
2: LittleE_230
3: Pound_229 + 10
4: ThreeRngTarjay_239 + 5
5: Dallas_239 + 2
6: Dove_234
7: Yeet_235
8: HokkenD_233
9: Omega_236

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 3048 Report

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

Pham number 3048 has 27 members, 3 are drafts.

Phages represented in each track:
• Track 1 : EricMillard_238, Superphikiman_239
• Track 2 : LittleE_230
• Track 3 : Pound_229, Ariel_247, Bagrid_246, BAKA_243, Kalah2_230, Hughesyang_242, Courthouse_243, Duke13_240, Optimus_231, Phoebus_239, Minerva_239
• Track 4 : ThreeRngTarjay_239, NihilNomen_241, Halley_243, Constella_229, Odette_240, Zelink_234
• Track 5 : Dallas_239, Redno2_232, Ejimix_232
• Track 6 : Dove_234
• Track 7 : Yeet_235
• Track 8 : HokkenD_233
• Track 9 : Omega_236

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

The start number called the most often in the published annotations is 2, it was called in 22 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariel_247, BAKA_243, Bagrid_246, Constella_229, Courthouse_243, Dallas_239, Dove_234, Duke13_240, Ejimix_232, EricMillard_238, Halley_243, HokkenD_233, Hughesyang_242, Kalah2_230, Minerva_239, NihilNomen_241, Odette_240, Optimus_231, Phoebus_239, Pound_229, Redno2_232, Superphikiman_239, ThreeRngTarjay_239, Yeet_235, Zelink_234,

Genes that have the "Most Annotated" start but do not call it:
• LittleE_230,

Genes that do not have the "Most Annotated" start:
• Omega_236,

Summary by start number:

Start 1:

• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 33.3% of time when present
• Phage (with cluster) where this start called: LittleE_230 (J),

Start 2:
• Found in 26 of 27 (96.3%) of genes in pham
• Manual Annotations of this start: 22 of 24
• Called 96.2% of time when present
• Phage (with cluster) where this start called: Ariel_247 (J), BAKA_243 (J), Bagrid_246 (J), Constella_229 (J), Courthouse_243 (J), Dallas_239 (J), Dove_234 (J), Duke13_240 (J), Ejimix_232 (J), EricMillard_238 (J), Halley_243 (J), HokkenD_233 (J), Hughesyang_242 (J), Kalah2_230 (J), Minerva_239 (J), NihilNomen_241 (J), Odette_240 (J), Optimus_231 (J), Phoebus_239 (J), Pound_229 (J), Redno2_232 (J), Superphikiman_239 (J), ThreeRngTarjay_239 (J), Yeet_235 (J), Zelink_234 (J),

Start 3:
• Found in 1 of 27 (3.7%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Omega_236 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:
•Start number 1 was manually annotated 1 time for cluster J.
•Start number 2 was manually annotated 22 times for cluster J.
•Start number 3 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Ariel_247 Start: 109344, Stop: 109084, Start Num: 2
Candidate Starts for Ariel_247:
(Start: 2 @109344 has 22 MA's), (4, 109302), (5, 109242), (6, 109230), (7, 109224), (8, 109218), (9, 109212), (10, 109209), (11, 109182),

Gene: BAKA_243 Start: 111232, Stop: 110972, Start Num: 2
Candidate Starts for BAKA_243:
(Start: 2 @111232 has 22 MA's), (4, 111190), (5, 111130), (6, 111118), (7, 111112), (8, 111106), (9, 111100), (10, 111097), (11, 111070),

Gene: Bagrid_246 Start: 113399, Stop: 113139, Start Num: 2
Candidate Starts for Bagrid_246:
(Start: 2 @113399 has 22 MA's), (4, 113357), (5, 113297), (6, 113285), (7, 113279), (8, 113273), (9, 113267), (10, 113264), (11, 113237),

Gene: Constella_229 Start: 109712, Stop: 109452, Start Num: 2
Candidate Starts for Constella_229:

(Start: 2 @109712 has 22 MA's), (4, 109670), (5, 109610), (6, 109598), (7, 109592), (8, 109586), (9, 109580), (10, 109577), (11, 109550), (12, 109538),

Gene: Courthouse_243 Start: 110110, Stop: 109850, Start Num: 2
Candidate Starts for Courthouse_243:
(Start: 2 @110110 has 22 MA's), (4, 110068), (5, 110008), (6, 109996), (7, 109990), (8, 109984), (9, 109978), (10, 109975), (11, 109948),

Gene: Dallas_239 Start: 110682, Stop: 110422, Start Num: 2
Candidate Starts for Dallas_239:
(Start: 2 @110682 has 22 MA's), (4, 110640), (5, 110580), (6, 110568), (7, 110562), (8, 110556), (9, 110550), (10, 110547), (11, 110520), (12, 110508),

Gene: Dove_234 Start: 107814, Stop: 107554, Start Num: 2
Candidate Starts for Dove_234:
(Start: 2 @107814 has 22 MA's), (4, 107772), (5, 107712), (6, 107700), (7, 107694), (8, 107688), (9, 107682), (11, 107652),

Gene: Duke13_240 Start: 111515, Stop: 111255, Start Num: 2
Candidate Starts for Duke13_240:
(Start: 2 @111515 has 22 MA's), (4, 111473), (5, 111413), (6, 111401), (7, 111395), (8, 111389), (9, 111383), (10, 111380), (11, 111353),

Gene: Ejimix_232 Start: 110760, Stop: 110500, Start Num: 2
Candidate Starts for Ejimix_232:
(Start: 2 @110760 has 22 MA's), (4, 110718), (5, 110658), (6, 110646), (7, 110640), (8, 110634), (9, 110628), (10, 110625), (11, 110598), (12, 110586),

Gene: EricMillard_238 Start: 112639, Stop: 112379, Start Num: 2
Candidate Starts for EricMillard_238:
(Start: 2 @112639 has 22 MA's), (4, 112597), (5, 112537), (6, 112525), (7, 112519), (8, 112513), (9, 112507), (10, 112504), (11, 112477),

Gene: Halley_243 Start: 111169, Stop: 110909, Start Num: 2
Candidate Starts for Halley_243:
(Start: 2 @111169 has 22 MA's), (4, 111127), (5, 111067), (6, 111055), (7, 111049), (8, 111043), (9, 111037), (10, 111034), (11, 111007), (12, 110995),

Gene: HokkenD_233 Start: 112604, Stop: 112344, Start Num: 2
Candidate Starts for HokkenD_233:
(Start: 1 @112670 has 1 MA's), (Start: 2 @112604 has 22 MA's), (4, 112562), (5, 112502), (6, 112490), (7, 112484), (8, 112478), (9, 112472), (10, 112469), (12, 112430),

Gene: Hughesyang_242 Start: 112428, Stop: 112168, Start Num: 2
Candidate Starts for Hughesyang_242:
(Start: 2 @112428 has 22 MA's), (4, 112386), (5, 112326), (6, 112314), (7, 112308), (8, 112302), (9, 112296), (10, 112293), (11, 112266),

Gene: Kalah2_230 Start: 110258, Stop: 109998, Start Num: 2
Candidate Starts for Kalah2_230:
(Start: 2 @110258 has 22 MA's), (4, 110216), (5, 110156), (6, 110144), (7, 110138), (8, 110132), (9, 110126), (10, 110123), (11, 110096),

Gene: LittleE_230 Start: 108688, Stop: 108362, Start Num: 1
Candidate Starts for LittleE_230:
(Start: 1 @108688 has 1 MA's), (Start: 2 @108622 has 22 MA's), (4, 108580), (5, 108520), (6, 108508), (7, 108502), (8, 108496), (9, 108490), (10, 108487), (11, 108460),

Gene: Minerva_239 Start: 109416, Stop: 109156, Start Num: 2
Candidate Starts for Minerva_239:
(Start: 2 @109416 has 22 MA's), (4, 109374), (5, 109314), (6, 109302), (7, 109296), (8, 109290), (9, 109284), (10, 109281), (11, 109254),

Gene: NihilNomen_241 Start: 109982, Stop: 109722, Start Num: 2
Candidate Starts for NihilNomen_241:
(Start: 2 @109982 has 22 MA's), (4, 109940), (5, 109880), (6, 109868), (7, 109862), (8, 109856), (9, 109850), (10, 109847), (11, 109820), (12, 109808),

Gene: Odette_240 Start: 111611, Stop: 111351, Start Num: 2
Candidate Starts for Odette_240:
(Start: 2 @111611 has 22 MA's), (4, 111569), (5, 111509), (6, 111497), (7, 111491), (8, 111485), (9, 111479), (10, 111476), (11, 111449), (12, 111437),

Gene: Omega_236 Start: 110171, Stop: 109911, Start Num: 3
Candidate Starts for Omega_236:
(Start: 3 @110171 has 1 MA's), (4, 110129), (5, 110069), (6, 110057), (7, 110051), (8, 110045), (9, 110039), (10, 110036),

Gene: Optimus_231 Start: 108815, Stop: 108555, Start Num: 2
Candidate Starts for Optimus_231:
(Start: 2 @108815 has 22 MA's), (4, 108773), (5, 108713), (6, 108701), (7, 108695), (8, 108689), (9, 108683), (10, 108680), (11, 108653),

Gene: Phoebus_239 Start: 113864, Stop: 113604, Start Num: 2
Candidate Starts for Phoebus_239:
(Start: 2 @113864 has 22 MA's), (4, 113822), (5, 113762), (6, 113750), (7, 113744), (8, 113738), (9, 113732), (10, 113729), (11, 113702),

Gene: Pound_229 Start: 109445, Stop: 109185, Start Num: 2
Candidate Starts for Pound_229:
(Start: 2 @109445 has 22 MA's), (4, 109403), (5, 109343), (6, 109331), (7, 109325), (8, 109319), (9, 109313), (10, 109310), (11, 109283),

Gene: Redno2_232 Start: 107811, Stop: 107551, Start Num: 2
Candidate Starts for Redno2_232:
(Start: 2 @107811 has 22 MA's), (4, 107769), (5, 107709), (6, 107697), (7, 107691), (8, 107685), (9, 107679), (10, 107676), (11, 107649), (12, 107637),

Gene: Superphikiman_239 Start: 108904, Stop: 108644, Start Num: 2
Candidate Starts for Superphikiman_239:
(Start: 2 @108904 has 22 MA's), (4, 108862), (5, 108802), (6, 108790), (7, 108784), (8, 108778), (9, 108772), (10, 108769), (11, 108742),

Gene: ThreeRngTarjay_239 Start: 112744, Stop: 112484, Start Num: 2
Candidate Starts for ThreeRngTarjay_239:

(Start: 2 @112744 has 22 MA's), (4, 112702), (5, 112642), (6, 112630), (7, 112624), (8, 112618), (9, 112612), (10, 112609), (11, 112582), (12, 112570),

Gene: Yeet_235 Start: 110969, Stop: 110709, Start Num: 2
Candidate Starts for Yeet_235:
(Start: 1 @111035 has 1 MA's), (Start: 2 @110969 has 22 MA's), (4, 110927), (5, 110867), (6, 110855), (7, 110849), (8, 110843), (9, 110837), (10, 110834), (11, 110807), (12, 110795),

Gene: Zelink_234 Start: 110557, Stop: 110297, Start Num: 2
Candidate Starts for Zelink_234:
(Start: 2 @110557 has 22 MA's), (4, 110515), (5, 110455), (6, 110443), (7, 110437), (8, 110431), (9, 110425), (10, 110422), (11, 110395), (12, 110383),