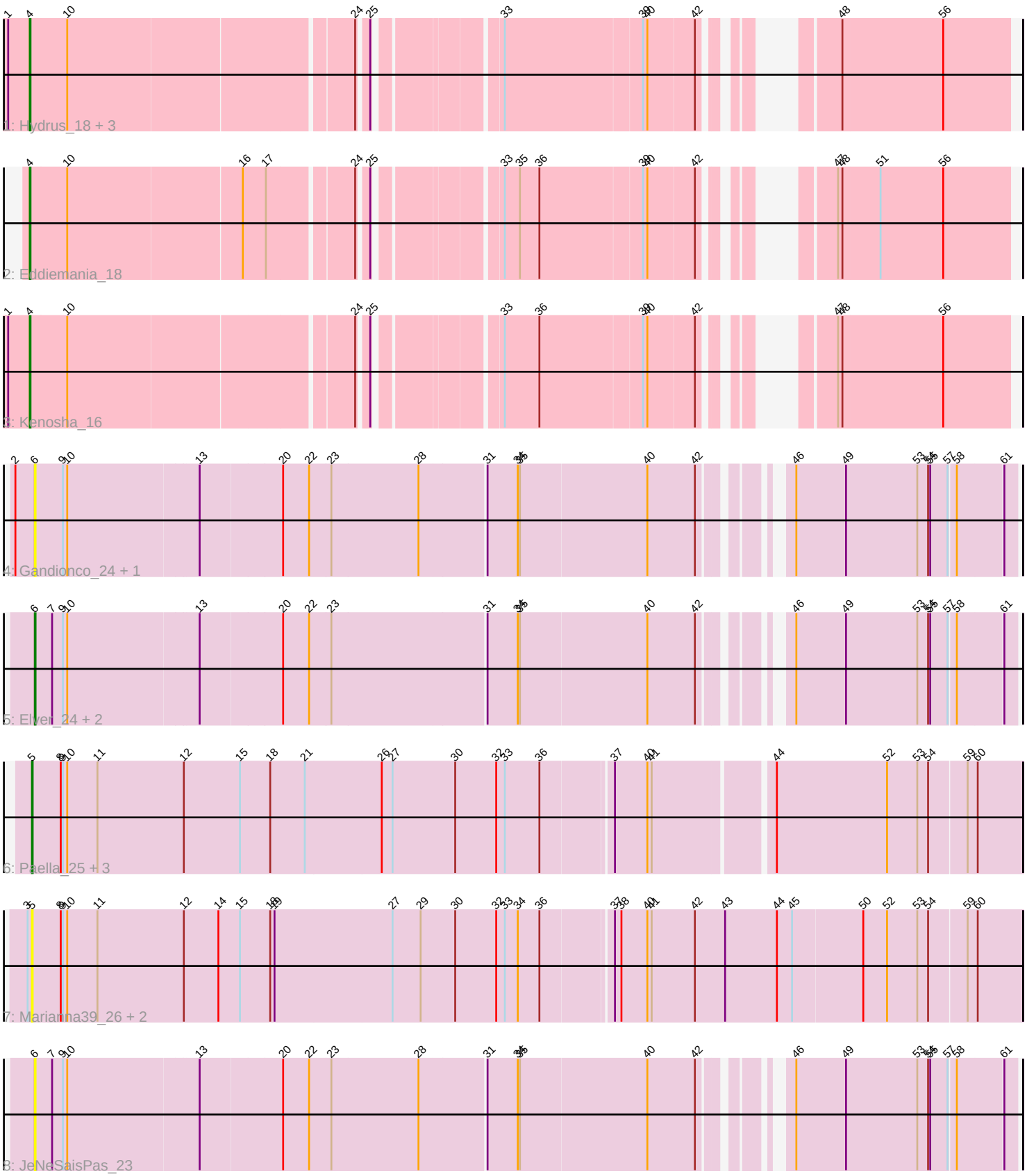
Pham 291577


1: Hydrus_18 + 3
2: Eddiemania_18
3: Kenosha_16
4: Gandionco_24 + 1
5: Elver_24 + 2
6: Paella_25 + 3
7: Mariamna39_26 + 2
8: JeNeSaisPas_23

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 291577 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291577 has 19 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Hydrus_18, Demure_16, Arataki_16, Zeph_18
• Track 2 : Eddiemania_18
• Track 3 : Kenosha_16
• Track 4 : Gandionco_24, Marianna39_25
• Track 5 : Elver_24, Paella_24, Qui_24
• Track 6 : Paella_25, JeNeSaisPas_24, Elver_25, Qui_25
• Track 7 : Marianna39_26, Kureo_26, Gandionco_25
• Track 8 : JeNeSaisPas_23

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 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arataki_16, Demure_16, Eddiemania_18, Hydrus_18, Kenosha_16, Zeph_18,

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

Genes that do not have the "Most Annotated" start:
• Elver_24, Elver_25, Gandionco_24, Gandionco_25, JeNeSaisPas_23, JeNeSaisPas_24, Kureo_26, Marianna39_25, Marianna39_26, Paella_24, Paella_25, Qui_24, Qui_25,

Summary by start number:

Start 4:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 5 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arataki_16 (DJ), Demure_16 (DJ), Eddiemania_18 (DJ), Hydrus_18 (DJ), Kenosha_16 (DJ), Zeph_18 (DJ),

Start 5:
• Found in 7 of 19 (36.8%) of genes in pham
• Manual Annotations of this start: 3 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elver_25 (FK), Gandionco_25 (FK), JeNeSaisPas_24 (FK), Kureo_26 (FK), Marianna39_26 (FK), Paella_25 (FK), Qui_25 (FK),

Start 6:
• Found in 6 of 19 (31.6%) of genes in pham
• Manual Annotations of this start: 3 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elver_24 (FK), Gandionco_24 (FK), JeNeSaisPas_23 (FK), Marianna39_25 (FK), Paella_24 (FK), Qui_24 (FK),

Summary by clusters:

There are 2 clusters represented in this pham: FK, DJ,

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

Info for manual annotations of cluster FK:
•Start number 5 was manually annotated 3 times for cluster FK.
•Start number 6 was manually annotated 3 times for cluster FK.

Gene Information:

Gene: Arataki_16 Start: 10224, Stop: 11393, Start Num: 4
Candidate Starts for Arataki_16:
(1, 10194), (Start: 4 @10224 has 5 MA's), (10, 10275), (24, 10650), (25, 10662), (33, 10809), (39, 10995), (40, 11001), (42, 11064), (48, 11163), (56, 11301),

Gene: Demure_16 Start: 10224, Stop: 11393, Start Num: 4
Candidate Starts for Demure_16:
(1, 10194), (Start: 4 @10224 has 5 MA's), (10, 10275), (24, 10650), (25, 10662), (33, 10809), (39, 10995), (40, 11001), (42, 11064), (48, 11163), (56, 11301),

Gene: Eddiemania_18 Start: 11823, Stop: 12992, Start Num: 4
Candidate Starts for Eddiemania_18:
(Start: 4 @11823 has 5 MA's), (10, 11874), (16, 12111), (17, 12141), (24, 12249), (25, 12261), (33, 12408), (35, 12429), (36, 12456), (39, 12594), (40, 12600), (42, 12663), (47, 12756), (48, 12762), (51, 12813), (56, 12900),

Gene: Elver_24 Start: 13529, Stop: 14797, Start Num: 6
Candidate Starts for Elver_24:
(Start: 6 @13529 has 3 MA's), (7, 13553), (9, 13568), (10, 13574), (13, 13751), (20, 13862), (22, 13898), (23, 13928), (31, 14135), (34, 14177), (35, 14180), (40, 14354), (42, 14420), (46, 14501), (49, 14570), (53, 14669), (54, 14684), (55, 14687), (57, 14711), (58, 14720), (61, 14780),

Gene: Elver_25 Start: 14826, Stop: 16160, Start Num: 5

Candidate Starts for Elver_25:
(Start: 5 @14826 has 3 MA's), (8, 14865), (9, 14868), (10, 14874), (11, 14916), (12, 15036), (15, 15114), (18, 15156), (21, 15204), (26, 15309), (27, 15324), (30, 15411), (32, 15468), (33, 15480), (36, 15528), (37, 15621), (40, 15666), (41, 15672), (44, 15825), (52, 15978), (53, 16020), (54, 16035), (59, 16086), (60, 16098),

Gene: Gandionco_24 Start: 14031, Stop: 15299, Start Num: 6
Candidate Starts for Gandionco_24:
(2, 14004), (Start: 6 @14031 has 3 MA's), (9, 14070), (10, 14076), (13, 14253), (20, 14364), (22, 14400), (23, 14430), (28, 14550), (31, 14637), (34, 14679), (35, 14682), (40, 14856), (42, 14922), (46, 15003), (49, 15072), (53, 15171), (54, 15186), (55, 15189), (57, 15213), (58, 15222), (61, 15282),

Gene: Gandionco_25 Start: 15330, Stop: 16682, Start Num: 5
Candidate Starts for Gandionco_25:
(3, 15324), (Start: 5 @15330 has 3 MA's), (8, 15369), (9, 15372), (10, 15378), (11, 15420), (12, 15540), (14, 15588), (15, 15618), (18, 15660), (19, 15666), (27, 15828), (29, 15867), (30, 15915), (32, 15972), (33, 15984), (34, 16002), (36, 16032), (37, 16125), (38, 16134), (40, 16170), (41, 16176), (42, 16236), (43, 16278), (44, 16350), (45, 16371), (50, 16467), (52, 16500), (53, 16542), (54, 16557), (59, 16608), (60, 16620),

Gene: Hydrus_18 Start: 11639, Stop: 12808, Start Num: 4
Candidate Starts for Hydrus_18:
(1, 11609), (Start: 4 @11639 has 5 MA's), (10, 11690), (24, 12065), (25, 12077), (33, 12224), (39, 12410), (40, 12416), (42, 12479), (48, 12578), (56, 12716),

Gene: JeNeSaisPas_23 Start: 14064, Stop: 15332, Start Num: 6
Candidate Starts for JeNeSaisPas_23:
(Start: 6 @14064 has 3 MA's), (7, 14088), (9, 14103), (10, 14109), (13, 14286), (20, 14397), (22, 14433), (23, 14463), (28, 14583), (31, 14670), (34, 14712), (35, 14715), (40, 14889), (42, 14955), (46, 15036), (49, 15105), (53, 15204), (54, 15219), (55, 15222), (57, 15246), (58, 15255), (61, 15315),

Gene: JeNeSaisPas_24 Start: 15361, Stop: 16695, Start Num: 5
Candidate Starts for JeNeSaisPas_24:
(Start: 5 @15361 has 3 MA's), (8, 15400), (9, 15403), (10, 15409), (11, 15451), (12, 15571), (15, 15649), (18, 15691), (21, 15739), (26, 15844), (27, 15859), (30, 15946), (32, 16003), (33, 16015), (36, 16063), (37, 16156), (40, 16201), (41, 16207), (44, 16360), (52, 16513), (53, 16555), (54, 16570), (59, 16621), (60, 16633),

Gene: Kenosha_16 Start: 10240, Stop: 11409, Start Num: 4
Candidate Starts for Kenosha_16:
(1, 10210), (Start: 4 @10240 has 5 MA's), (10, 10291), (24, 10666), (25, 10678), (33, 10825), (36, 10873), (39, 11011), (40, 11017), (42, 11080), (47, 11173), (48, 11179), (56, 11317),

Gene: Kureo_26 Start: 14153, Stop: 15505, Start Num: 5
Candidate Starts for Kureo_26:
(3, 14147), (Start: 5 @14153 has 3 MA's), (8, 14192), (9, 14195), (10, 14201), (11, 14243), (12, 14363), (14, 14411), (15, 14441), (18, 14483), (19, 14489), (27, 14651), (29, 14690), (30, 14738), (32, 14795), (33, 14807), (34, 14825), (36, 14855), (37, 14948), (38, 14957), (40, 14993), (41, 14999), (42, 15059), (43, 15101), (44, 15173), (45, 15194), (50, 15290), (52, 15323), (53, 15365), (54, 15380), (59, 15431), (60, 15443),

Gene: Marianna39_26 Start: 15330, Stop: 16682, Start Num: 5
Candidate Starts for Marianna39_26:

(3, 15324), (Start: 5 @15330 has 3 MA's), (8, 15369), (9, 15372), (10, 15378), (11, 15420), (12, 15540), (14, 15588), (15, 15618), (18, 15660), (19, 15666), (27, 15828), (29, 15867), (30, 15915), (32, 15972), (33, 15984), (34, 16002), (36, 16032), (37, 16125), (38, 16134), (40, 16170), (41, 16176), (42, 16236), (43, 16278), (44, 16350), (45, 16371), (50, 16467), (52, 16500), (53, 16542), (54, 16557), (59, 16608), (60, 16620),

Gene: Marianna39_25 Start: 14031, Stop: 15299, Start Num: 6
Candidate Starts for Marianna39_25:
(2, 14004), (Start: 6 @14031 has 3 MA's), (9, 14070), (10, 14076), (13, 14253), (20, 14364), (22, 14400), (23, 14430), (28, 14550), (31, 14637), (34, 14679), (35, 14682), (40, 14856), (42, 14922), (46, 15003), (49, 15072), (53, 15171), (54, 15186), (55, 15189), (57, 15213), (58, 15222), (61, 15282),

Gene: Paella_25 Start: 14828, Stop: 16162, Start Num: 5
Candidate Starts for Paella_25:
(Start: 5 @14828 has 3 MA's), (8, 14867), (9, 14870), (10, 14876), (11, 14918), (12, 15038), (15, 15116), (18, 15158), (21, 15206), (26, 15311), (27, 15326), (30, 15413), (32, 15470), (33, 15482), (36, 15530), (37, 15623), (40, 15668), (41, 15674), (44, 15827), (52, 15980), (53, 16022), (54, 16037), (59, 16088), (60, 16100),

Gene: Paella_24 Start: 13531, Stop: 14799, Start Num: 6
Candidate Starts for Paella_24:
(Start: 6 @13531 has 3 MA's), (7, 13555), (9, 13570), (10, 13576), (13, 13753), (20, 13864), (22, 13900), (23, 13930), (31, 14137), (34, 14179), (35, 14182), (40, 14356), (42, 14422), (46, 14503), (49, 14572), (53, 14671), (54, 14686), (55, 14689), (57, 14713), (58, 14722), (61, 14782),

Gene: Qui_25 Start: 14828, Stop: 16162, Start Num: 5
Candidate Starts for Qui_25:
(Start: 5 @14828 has 3 MA's), (8, 14867), (9, 14870), (10, 14876), (11, 14918), (12, 15038), (15, 15116), (18, 15158), (21, 15206), (26, 15311), (27, 15326), (30, 15413), (32, 15470), (33, 15482), (36, 15530), (37, 15623), (40, 15668), (41, 15674), (44, 15827), (52, 15980), (53, 16022), (54, 16037), (59, 16088), (60, 16100),

Gene: Qui_24 Start: 13531, Stop: 14799, Start Num: 6
Candidate Starts for Qui_24:
(Start: 6 @13531 has 3 MA's), (7, 13555), (9, 13570), (10, 13576), (13, 13753), (20, 13864), (22, 13900), (23, 13930), (31, 14137), (34, 14179), (35, 14182), (40, 14356), (42, 14422), (46, 14503), (49, 14572), (53, 14671), (54, 14686), (55, 14689), (57, 14713), (58, 14722), (61, 14782),

Gene: Zeph_18 Start: 11621, Stop: 12790, Start Num: 4
Candidate Starts for Zeph_18:
(1, 11591), (Start: 4 @11621 has 5 MA's), (10, 11672), (24, 12047), (25, 12059), (33, 12206), (39, 12392), (40, 12398), (42, 12461), (48, 12560), (56, 12698),