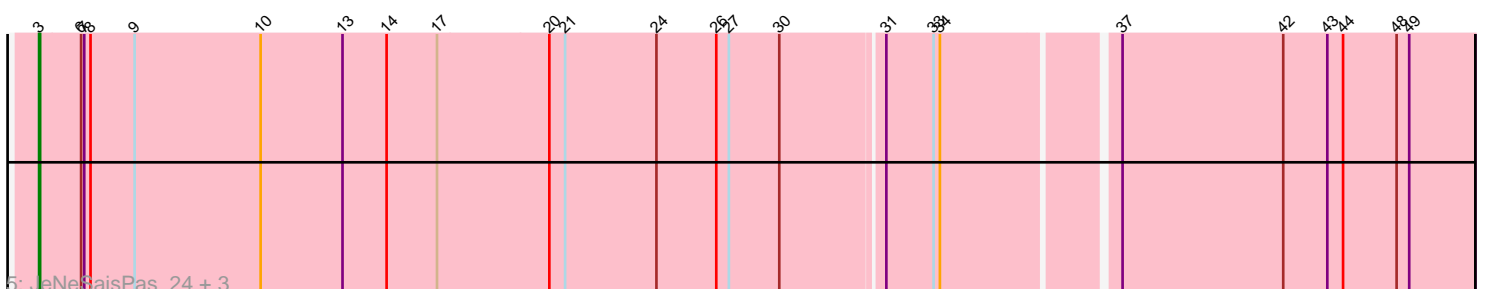
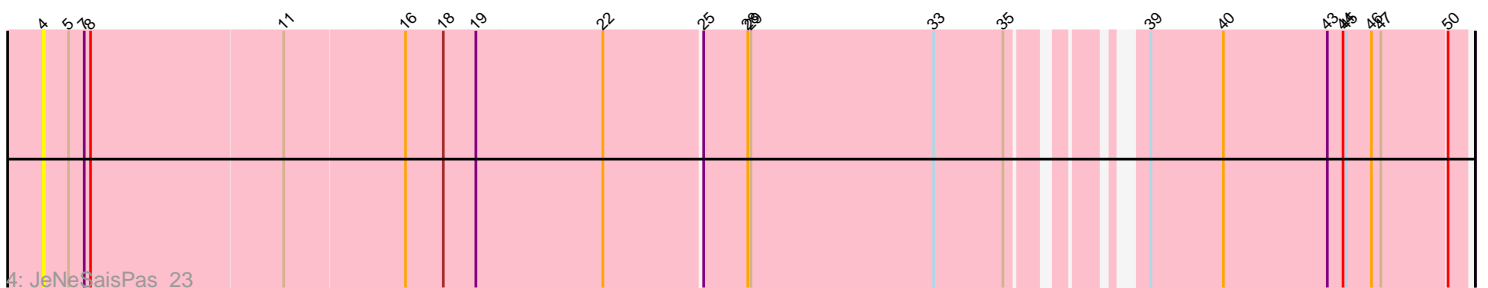
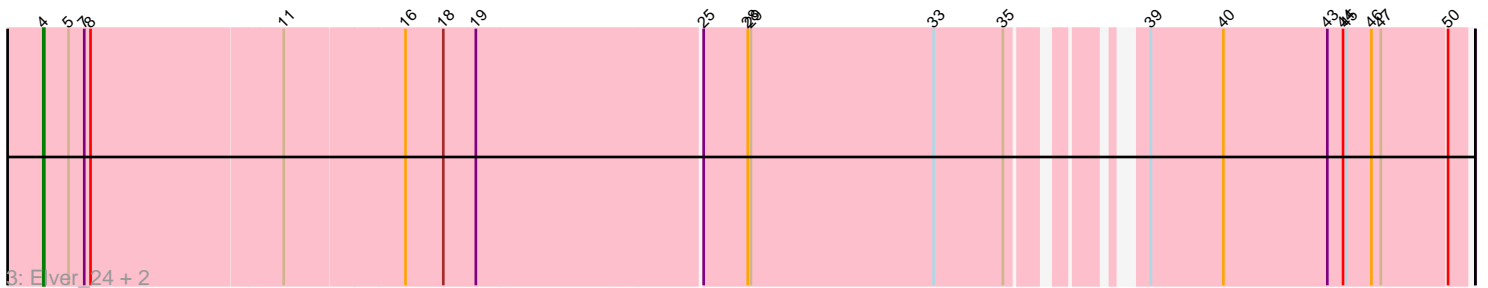
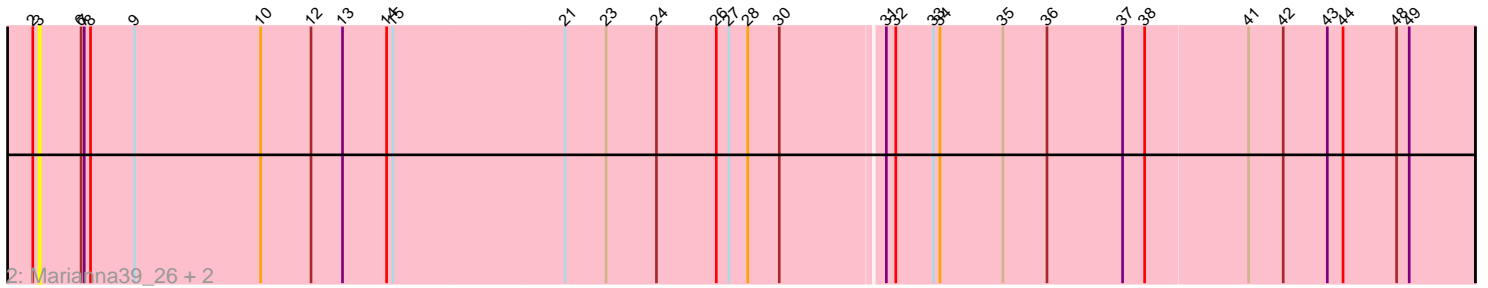
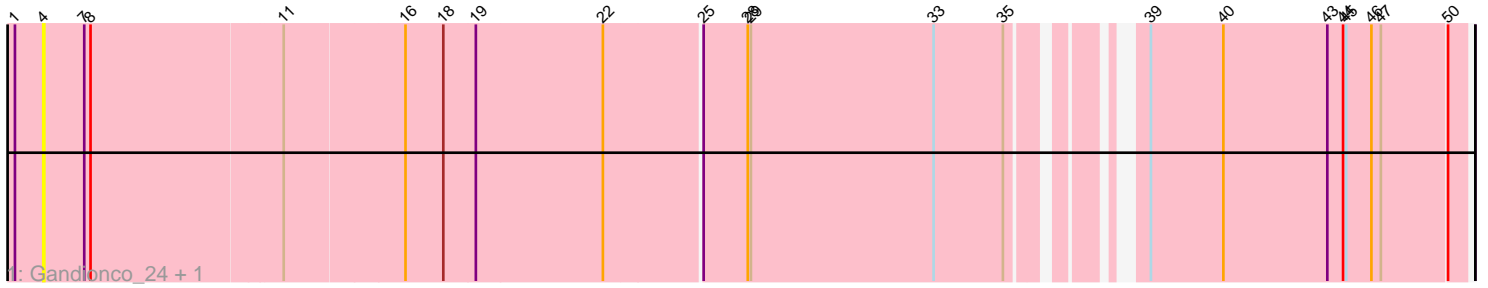


# Pham 293289



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 293289 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293289 has 13 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Gandionco\_24, Marianna39\_25
- Track 2 : Marianna39\_26, Kureo\_26, Gandionco\_25
- Track 3 : Elver\_24, Paella\_24, Qui\_24
- Track 4 : JeNeSaisPas\_23
- Track 5 : JeNeSaisPas\_24, Elver\_25, Paella\_25, Qui\_25

### ***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 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Elver\_24, Gandionco\_24, JeNeSaisPas\_23, Marianna39\_25, Paella\_24, Qui\_24,

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

- 

Genes that do not have the "Most Annotated" start:

- Elver\_25, Gandionco\_25, JeNeSaisPas\_24, Kureo\_26, Marianna39\_26, Paella\_25, Qui\_25,

### **Summary by start number:**

Start 3:

- Found in 7 of 13 ( 53.8% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- 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 4:

- Found in 6 of 13 ( 46.2% ) of genes in pham
- Manual Annotations of this start: 3 of 6

- 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 is one cluster represented in this pham: FK

Info for manual annotations of cluster FK:

- Start number 3 was manually annotated 3 times for cluster FK.
- Start number 4 was manually annotated 3 times for cluster FK.

### Gene Information:

Gene: Elver\_24 Start: 13529, Stop: 14797, Start Num: 4

Candidate Starts for Elver\_24:

(Start: 4 @13529 has 3 MA's), (5, 13553), (7, 13568), (8, 13574), (11, 13751), (16, 13862), (18, 13898), (19, 13928), (25, 14135), (28, 14177), (29, 14180), (33, 14354), (35, 14420), (39, 14501), (40, 14570), (43, 14669), (44, 14684), (45, 14687), (46, 14711), (47, 14720), (50, 14780),

Gene: Elver\_25 Start: 14826, Stop: 16160, Start Num: 3

Candidate Starts for Elver\_25:

(Start: 3 @14826 has 3 MA's), (6, 14865), (7, 14868), (8, 14874), (9, 14916), (10, 15036), (13, 15114), (14, 15156), (17, 15204), (20, 15309), (21, 15324), (24, 15411), (26, 15468), (27, 15480), (30, 15528), (31, 15621), (33, 15666), (34, 15672), (37, 15825), (42, 15978), (43, 16020), (44, 16035), (48, 16086), (49, 16098),

Gene: Gandionco\_24 Start: 14031, Stop: 15299, Start Num: 4

Candidate Starts for Gandionco\_24:

(1, 14004), (Start: 4 @14031 has 3 MA's), (7, 14070), (8, 14076), (11, 14253), (16, 14364), (18, 14400), (19, 14430), (22, 14550), (25, 14637), (28, 14679), (29, 14682), (33, 14856), (35, 14922), (39, 15003), (40, 15072), (43, 15171), (44, 15186), (45, 15189), (46, 15213), (47, 15222), (50, 15282),

Gene: Gandionco\_25 Start: 15330, Stop: 16682, Start Num: 3

Candidate Starts for Gandionco\_25:

(2, 15324), (Start: 3 @15330 has 3 MA's), (6, 15369), (7, 15372), (8, 15378), (9, 15420), (10, 15540), (12, 15588), (13, 15618), (14, 15660), (15, 15666), (21, 15828), (23, 15867), (24, 15915), (26, 15972), (27, 15984), (28, 16002), (30, 16032), (31, 16125), (32, 16134), (33, 16170), (34, 16176), (35, 16236), (36, 16278), (37, 16350), (38, 16371), (41, 16467), (42, 16500), (43, 16542), (44, 16557), (48, 16608), (49, 16620),

Gene: JeNeSaisPas\_23 Start: 14064, Stop: 15332, Start Num: 4

Candidate Starts for JeNeSaisPas\_23:

(Start: 4 @14064 has 3 MA's), (5, 14088), (7, 14103), (8, 14109), (11, 14286), (16, 14397), (18, 14433), (19, 14463), (22, 14583), (25, 14670), (28, 14712), (29, 14715), (33, 14889), (35, 14955), (39, 15036), (40, 15105), (43, 15204), (44, 15219), (45, 15222), (46, 15246), (47, 15255), (50, 15315),

Gene: JeNeSaisPas\_24 Start: 15361, Stop: 16695, Start Num: 3

Candidate Starts for JeNeSaisPas\_24:

(Start: 3 @15361 has 3 MA's), (6, 15400), (7, 15403), (8, 15409), (9, 15451), (10, 15571), (13, 15649), (14, 15691), (17, 15739), (20, 15844), (21, 15859), (24, 15946), (26, 16003), (27, 16015), (30, 16063),

(31, 16156), (33, 16201), (34, 16207), (37, 16360), (42, 16513), (43, 16555), (44, 16570), (48, 16621), (49, 16633),

Gene: Kureo\_26 Start: 14153, Stop: 15505, Start Num: 3

Candidate Starts for Kureo\_26:

(2, 14147), (Start: 3 @14153 has 3 MA's), (6, 14192), (7, 14195), (8, 14201), (9, 14243), (10, 14363), (12, 14411), (13, 14441), (14, 14483), (15, 14489), (21, 14651), (23, 14690), (24, 14738), (26, 14795), (27, 14807), (28, 14825), (30, 14855), (31, 14948), (32, 14957), (33, 14993), (34, 14999), (35, 15059), (36, 15101), (37, 15173), (38, 15194), (41, 15290), (42, 15323), (43, 15365), (44, 15380), (48, 15431), (49, 15443),

Gene: Marianna39\_26 Start: 15330, Stop: 16682, Start Num: 3

Candidate Starts for Marianna39\_26:

(2, 15324), (Start: 3 @15330 has 3 MA's), (6, 15369), (7, 15372), (8, 15378), (9, 15420), (10, 15540), (12, 15588), (13, 15618), (14, 15660), (15, 15666), (21, 15828), (23, 15867), (24, 15915), (26, 15972), (27, 15984), (28, 16002), (30, 16032), (31, 16125), (32, 16134), (33, 16170), (34, 16176), (35, 16236), (36, 16278), (37, 16350), (38, 16371), (41, 16467), (42, 16500), (43, 16542), (44, 16557), (48, 16608), (49, 16620),

Gene: Marianna39\_25 Start: 14031, Stop: 15299, Start Num: 4

Candidate Starts for Marianna39\_25:

(1, 14004), (Start: 4 @14031 has 3 MA's), (7, 14070), (8, 14076), (11, 14253), (16, 14364), (18, 14400), (19, 14430), (22, 14550), (25, 14637), (28, 14679), (29, 14682), (33, 14856), (35, 14922), (39, 15003), (40, 15072), (43, 15171), (44, 15186), (45, 15189), (46, 15213), (47, 15222), (50, 15282),

Gene: Paella\_24 Start: 13531, Stop: 14799, Start Num: 4

Candidate Starts for Paella\_24:

(Start: 4 @13531 has 3 MA's), (5, 13555), (7, 13570), (8, 13576), (11, 13753), (16, 13864), (18, 13900), (19, 13930), (25, 14137), (28, 14179), (29, 14182), (33, 14356), (35, 14422), (39, 14503), (40, 14572), (43, 14671), (44, 14686), (45, 14689), (46, 14713), (47, 14722), (50, 14782),

Gene: Paella\_25 Start: 14828, Stop: 16162, Start Num: 3

Candidate Starts for Paella\_25:

(Start: 3 @14828 has 3 MA's), (6, 14867), (7, 14870), (8, 14876), (9, 14918), (10, 15038), (13, 15116), (14, 15158), (17, 15206), (20, 15311), (21, 15326), (24, 15413), (26, 15470), (27, 15482), (30, 15530), (31, 15623), (33, 15668), (34, 15674), (37, 15827), (42, 15980), (43, 16022), (44, 16037), (48, 16088), (49, 16100),

Gene: Qui\_25 Start: 14828, Stop: 16162, Start Num: 3

Candidate Starts for Qui\_25:

(Start: 3 @14828 has 3 MA's), (6, 14867), (7, 14870), (8, 14876), (9, 14918), (10, 15038), (13, 15116), (14, 15158), (17, 15206), (20, 15311), (21, 15326), (24, 15413), (26, 15470), (27, 15482), (30, 15530), (31, 15623), (33, 15668), (34, 15674), (37, 15827), (42, 15980), (43, 16022), (44, 16037), (48, 16088), (49, 16100),

Gene: Qui\_24 Start: 13531, Stop: 14799, Start Num: 4

Candidate Starts for Qui\_24:

(Start: 4 @13531 has 3 MA's), (5, 13555), (7, 13570), (8, 13576), (11, 13753), (16, 13864), (18, 13900), (19, 13930), (25, 14137), (28, 14179), (29, 14182), (33, 14356), (35, 14422), (39, 14503), (40, 14572), (43, 14671), (44, 14686), (45, 14689), (46, 14713), (47, 14722), (50, 14782),