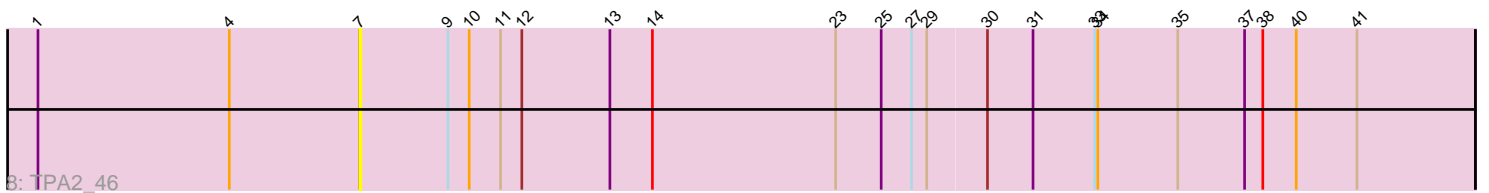
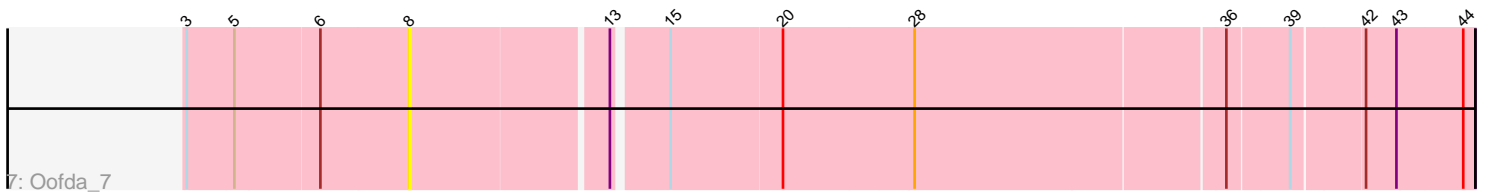
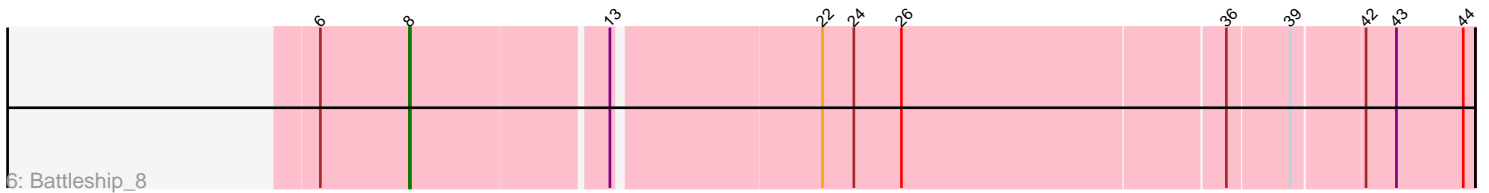
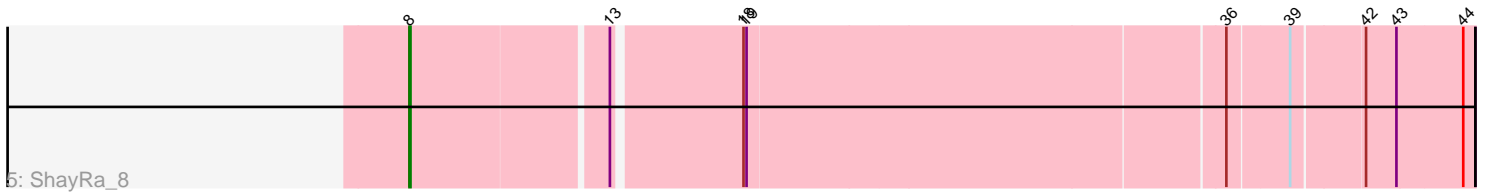
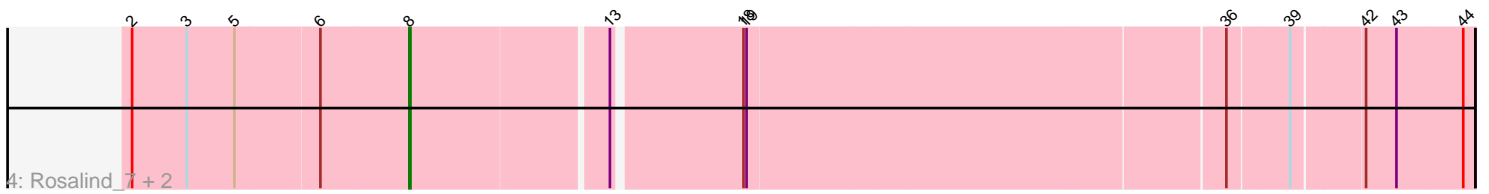
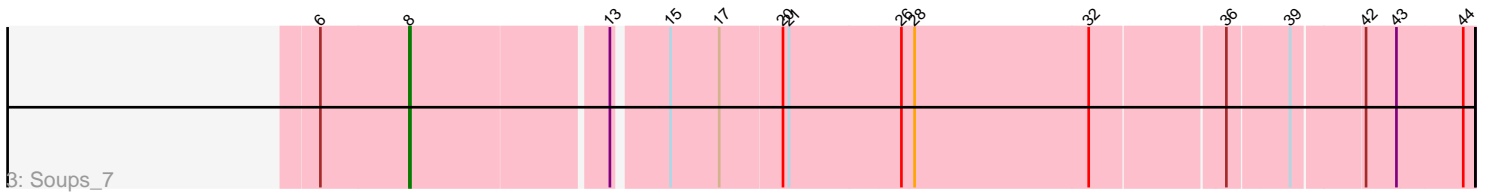
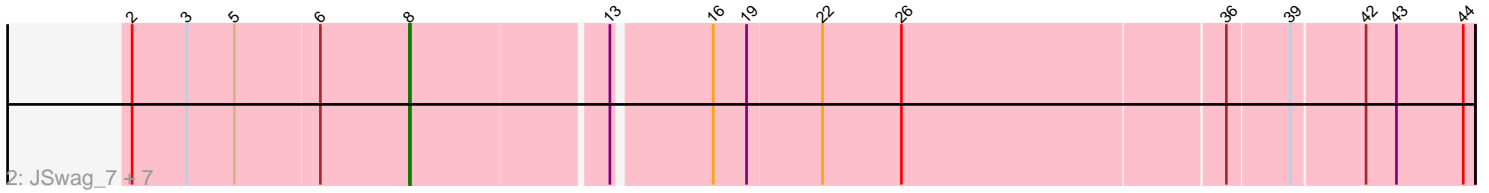
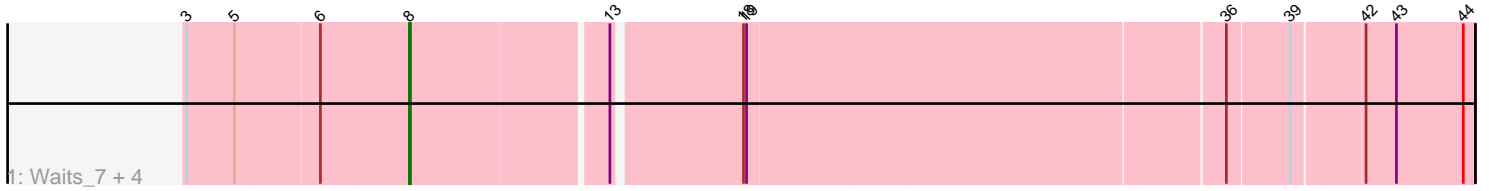


Pham 171778



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 171778 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171778 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Waits\_7, Remus\_7, DekHockey33\_7, Strosahl\_7, KatherineG\_7
- Track 2 : JSwag\_7, Nebulosus\_7, Boohoo\_7, Epsocamisio\_7, ReMo\_7, Looper\_7, LastResort\_7, Anaysia\_7
- Track 3 : Soups\_7
- Track 4 : Rosalind\_7, Switzerland\_7, MinecraftSteve\_8
- Track 5 : ShayRa\_8
- Track 6 : Battleship\_8
- Track 7 : Oofda\_7
- Track 8 : TPA2\_46

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

The start number called the most often in the published annotations is 8, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia\_7, Battleship\_8, Boohoo\_7, DekHockey33\_7, Epsocamisio\_7, JSwag\_7, KatherineG\_7, LastResort\_7, Looper\_7, MinecraftSteve\_8, Nebulosus\_7, Oofda\_7, ReMo\_7, Remus\_7, Rosalind\_7, ShayRa\_8, Soups\_7, Strosahl\_7, Switzerland\_7, Waits\_7,

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

- 

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

- TPA2\_46,

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

Start 7:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA2\_46 (singleton),

Start 8:

- Found in 20 of 21 ( 95.2% ) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia\_7 (A15), Battleship\_8 (A15), Boohoo\_7 (A15), DekHockey33\_7 (A15), Epsocamisio\_7 (A15), JSwag\_7 (A15), KatherineG\_7 (A15), LastResort\_7 (A15), Looper\_7 (A15), MinecraftSteve\_8 (A15), Nebulosus\_7 (A15), Oofda\_7 (A15), ReMo\_7 (A15), Remus\_7 (A15), Rosalind\_7 (A15), ShayRa\_8 (A15), Soups\_7 (A15), Strosahl\_7 (A15), Switzerland\_7 (A15), Waits\_7 (A15),

**Summary by clusters:**

There are 2 clusters represented in this pham: A15, singleton,

Info for manual annotations of cluster A15:

- Start number 8 was manually annotated 19 times for cluster A15.

**Gene Information:**

Gene: Anaysia\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Anaysia\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: Battleship\_8 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for Battleship\_8:

(6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (22, 3942), (24, 3972), (26, 4017), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: Boohoo\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Boohoo\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: DekHockey33\_7 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for DekHockey33\_7:

(3, 3348), (5, 3393), (6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (18, 3867), (19, 3870), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: Epsocamisio\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Epsocamisio\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: JSwag\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for JSwag\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: KatherineG\_7 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for KatherineG\_7:

(3, 3348), (5, 3393), (6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (18, 3867), (19, 3870), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: LastResort\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for LastResort\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: Looper\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Looper\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: MinecraftSteve\_8 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for MinecraftSteve\_8:

(2, 3294), (3, 3348), (5, 3393), (6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (18, 3867), (19, 3870), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: Nebulosus\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Nebulosus\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: Oofda\_7 Start: 3417, Stop: 4409, Start Num: 8

Candidate Starts for Oofda\_7:

(3, 3204), (5, 3249), (6, 3330), (Start: 8 @3417 has 19 MA's), (13, 3603), (15, 3651), (20, 3759), (28, 3885), (36, 4182), (39, 4239), (42, 4305), (43, 4335), (44, 4398),

Gene: ReMo\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for ReMo\_7:

(2, 3147), (3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (16, 3690), (19, 3723), (22, 3795), (26, 3870), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: Remus\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Remus\_7:

(3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (18, 3720), (19, 3723), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: Rosalind\_7 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for Rosalind\_7:

(2, 3294), (3, 3348), (5, 3393), (6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (18, 3867), (19, 3870), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: ShayRa\_8 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for ShayRa\_8:

(Start: 8 @3561 has 19 MA's), (13, 3747), (18, 3867), (19, 3870), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: Soups\_7 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for Soups\_7:

(6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (15, 3795), (17, 3843), (20, 3903), (21, 3909), (26, 4017), (28, 4029), (32, 4200), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: Strosahl\_7 Start: 3414, Stop: 4406, Start Num: 8

Candidate Starts for Strosahl\_7:

(3, 3201), (5, 3246), (6, 3327), (Start: 8 @3414 has 19 MA's), (13, 3600), (18, 3720), (19, 3723), (36, 4179), (39, 4236), (42, 4302), (43, 4332), (44, 4395),

Gene: Switzerland\_7 Start: 3561, Stop: 4553, Start Num: 8

Candidate Starts for Switzerland\_7:

(2, 3294), (3, 3348), (5, 3393), (6, 3474), (Start: 8 @3561 has 19 MA's), (13, 3747), (18, 3867), (19, 3870), (36, 4326), (39, 4383), (42, 4449), (43, 4479), (44, 4542),

Gene: TPA2\_46 Start: 35834, Stop: 36925, Start Num: 7

Candidate Starts for TPA2\_46:

(1, 35516), (4, 35705), (7, 35834), (9, 35918), (10, 35939), (11, 35969), (12, 35990), (13, 36077), (14, 36119), (23, 36299), (25, 36344), (27, 36374), (29, 36389), (30, 36446), (31, 36491), (33, 36551), (34, 36554), (35, 36632), (37, 36698), (38, 36716), (40, 36749), (41, 36809),

Gene: Waits\_7 Start: 3413, Stop: 4405, Start Num: 8

Candidate Starts for Waits\_7:

(3, 3200), (5, 3245), (6, 3326), (Start: 8 @3413 has 19 MA's), (13, 3599), (18, 3719), (19, 3722), (36, 4178), (39, 4235), (42, 4301), (43, 4331), (44, 4394),