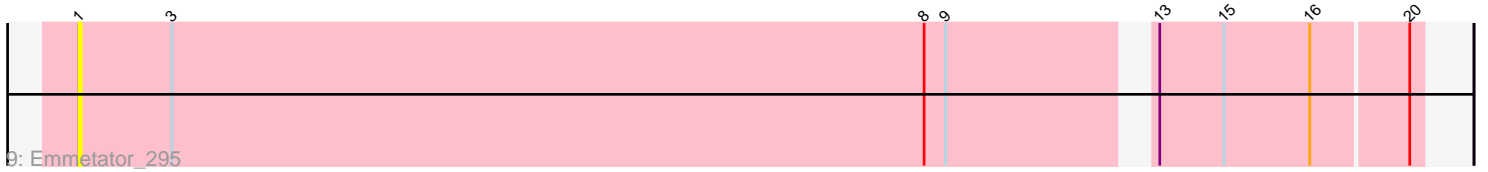
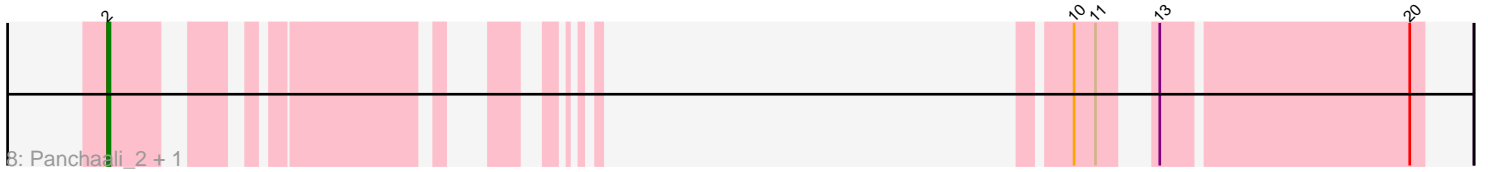
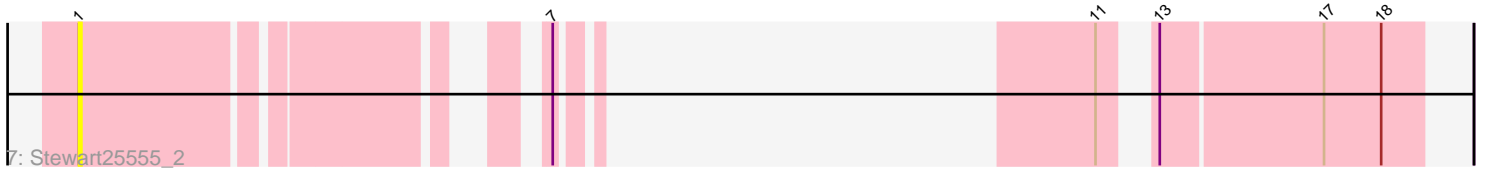
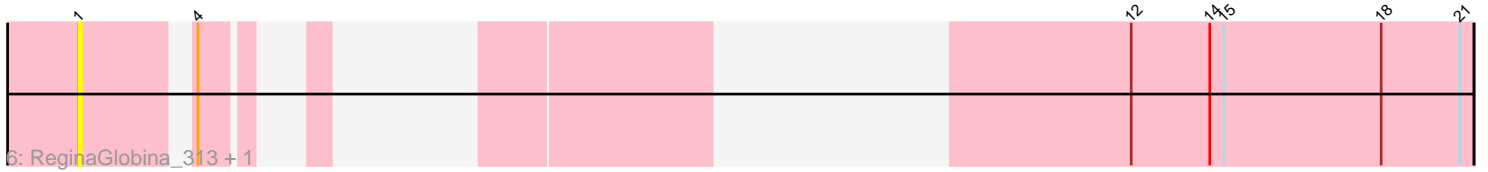
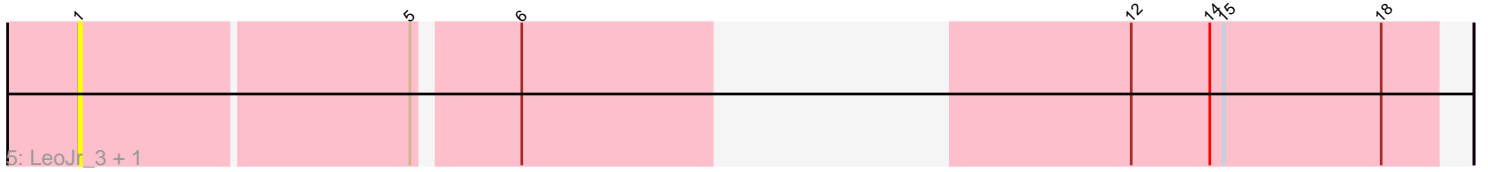
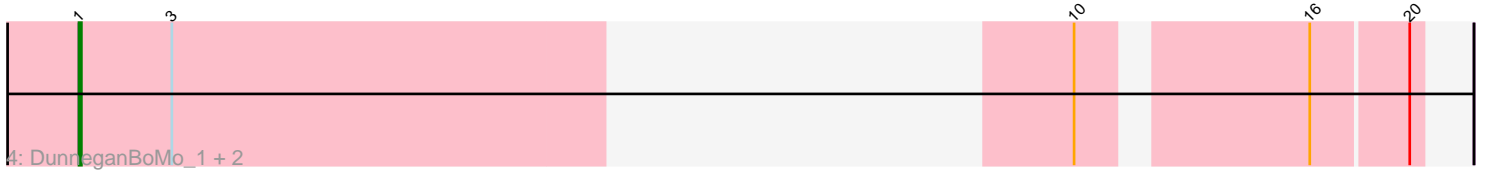
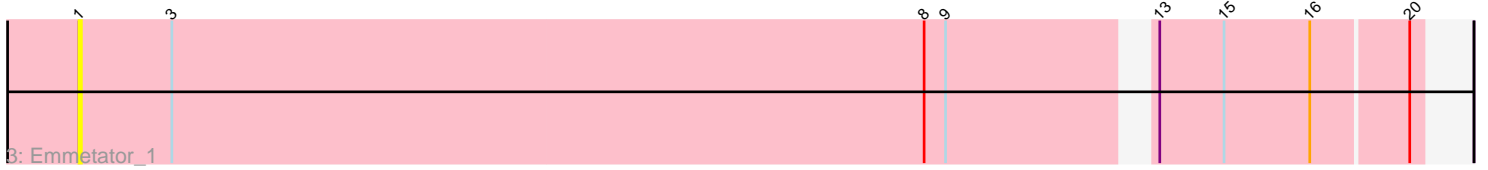
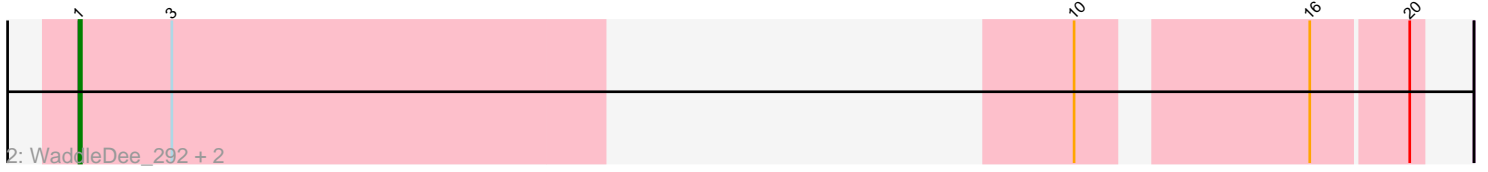
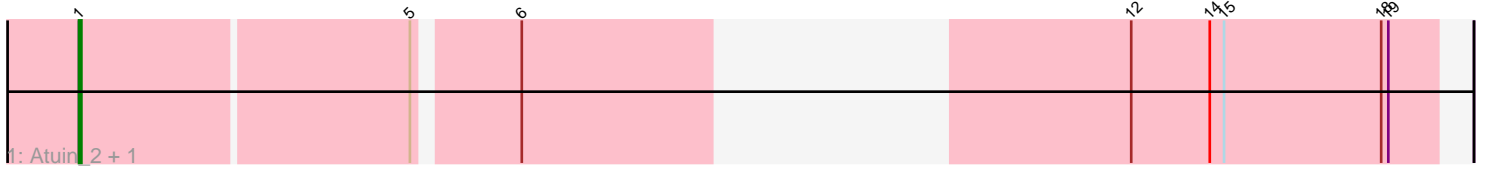


Pham 297029



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 297029 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297029 has 17 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Atuin_2, Atuin_302
- Track 2 : WaddleDee_292, BooTeria_300, DunneganBoMo_296
- Track 3 : Emmetator_1
- Track 4 : DunneganBoMo_1, BooTeria_1, WaddleDee_1
- Track 5 : LeoJr_3, LeoJr_316
- Track 6 : ReginaGlobina_313, ReginaGlobina_2
- Track 7 : Stewart25555_2
- Track 8 : Panchaali_2, Panchaali_289
- Track 9 : Emmetator_295

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Atuin_2, Atuin_302, BooTeria_1, BooTeria_300, DunneganBoMo_1, DunneganBoMo_296, Emmetator_1, Emmetator_295, LeoJr_3, LeoJr_316, ReginaGlobina_2, ReginaGlobina_313, Stewart25555_2, WaddleDee_1, WaddleDee_292,

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

-

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

- Panchaali_2, Panchaali_289,

Summary by start number:

Start 1:

- Found in 15 of 17 (88.2%) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Atuin_2 (FC), Atuin_302 (FC), BooTeria_1 (FC), BooTeria_300 (FC), DunneganBoMo_1 (FC), DunneganBoMo_296 (FC), Emmetator_1 (FC), Emmetator_295 (FC), LeoJr_3 (FC), LeoJr_316 (FC), ReginaGlobina_2 (FC), ReginaGlobina_313 (FC), Stewart25555_2 (FC), WaddleDee_1 (FC), WaddleDee_292 (FC),

Start 2:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Panchaali_2 (FC), Panchaali_289 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 6 times for cluster FC.
- Start number 2 was manually annotated 2 times for cluster FC.

Gene Information:

Gene: Atuin_2 Start: 659, Stop: 1117, Start Num: 1

Candidate Starts for Atuin_2:

(Start: 1 @659 has 6 MA's), (5, 794), (6, 833), (12, 989), (14, 1022), (15, 1028), (18, 1094), (19, 1097),

Gene: Atuin_302 Start: 177547, Stop: 178005, Start Num: 1

Candidate Starts for Atuin_302:

(Start: 1 @177547 has 6 MA's), (5, 177682), (6, 177721), (12, 177877), (14, 177910), (15, 177916), (18, 177982), (19, 177985),

Gene: BooTeria_1 Start: 66, Stop: 452, Start Num: 1

Candidate Starts for BooTeria_1:

(Start: 1 @66 has 6 MA's), (3, 105), (10, 324), (16, 408), (20, 447),

Gene: BooTeria_300 Start: 178975, Stop: 179361, Start Num: 1

Candidate Starts for BooTeria_300:

(Start: 1 @178975 has 6 MA's), (3, 179014), (10, 179233), (16, 179317), (20, 179356),

Gene: DunneganBoMo_1 Start: 66, Stop: 452, Start Num: 1

Candidate Starts for DunneganBoMo_1:

(Start: 1 @66 has 6 MA's), (3, 105), (10, 324), (16, 408), (20, 447),

Gene: DunneganBoMo_296 Start: 179478, Stop: 179864, Start Num: 1

Candidate Starts for DunneganBoMo_296:

(Start: 1 @179478 has 6 MA's), (3, 179517), (10, 179736), (16, 179820), (20, 179859),

Gene: Emmetator_1 Start: 66, Stop: 611, Start Num: 1

Candidate Starts for Emmetator_1:

(Start: 1 @66 has 6 MA's), (3, 105), (8, 420), (9, 429), (13, 504), (15, 531), (16, 567), (20, 606),

Gene: Emmetator_295 Start: 178366, Stop: 178911, Start Num: 1
Candidate Starts for Emmetator_295:
(Start: 1 @178366 has 6 MA's), (3, 178405), (8, 178720), (9, 178729), (13, 178804), (15, 178831), (16, 178867), (20, 178906),

Gene: LeoJr_3 Start: 813, Stop: 1271, Start Num: 1
Candidate Starts for LeoJr_3:
(Start: 1 @813 has 6 MA's), (5, 948), (6, 987), (12, 1143), (14, 1176), (15, 1182), (18, 1248),

Gene: LeoJr_316 Start: 178116, Stop: 178574, Start Num: 1
Candidate Starts for LeoJr_316:
(Start: 1 @178116 has 6 MA's), (5, 178251), (6, 178290), (12, 178446), (14, 178479), (15, 178485), (18, 178551),

Gene: Panchaali_2 Start: 188, Stop: 463, Start Num: 2
Candidate Starts for Panchaali_2:
(Start: 2 @188 has 2 MA's), (10, 338), (11, 347), (13, 359), (20, 458),

Gene: Panchaali_289 Start: 179246, Stop: 179521, Start Num: 2
Candidate Starts for Panchaali_289:
(Start: 2 @179246 has 2 MA's), (10, 179396), (11, 179405), (13, 179417), (20, 179516),

Gene: ReginaGlobina_313 Start: 178103, Stop: 178486, Start Num: 1
Candidate Starts for ReginaGlobina_313:
(Start: 1 @178103 has 6 MA's), (4, 178142), (12, 178343), (14, 178376), (15, 178382), (18, 178448), (21, 178481),

Gene: ReginaGlobina_2 Start: 656, Stop: 1039, Start Num: 1
Candidate Starts for ReginaGlobina_2:
(Start: 1 @656 has 6 MA's), (4, 695), (12, 896), (14, 929), (15, 935), (18, 1001), (21, 1034),

Gene: Stewart25555_2 Start: 693, Stop: 1019, Start Num: 1
Candidate Starts for Stewart25555_2:
(Start: 1 @693 has 6 MA's), (7, 846), (11, 900), (13, 912), (17, 978), (18, 1002),

Gene: WaddleDee_292 Start: 178261, Stop: 178647, Start Num: 1
Candidate Starts for WaddleDee_292:
(Start: 1 @178261 has 6 MA's), (3, 178300), (10, 178519), (16, 178603), (20, 178642),

Gene: WaddleDee_1 Start: 66, Stop: 452, Start Num: 1
Candidate Starts for WaddleDee_1:
(Start: 1 @66 has 6 MA's), (3, 105), (10, 324), (16, 408), (20, 447),