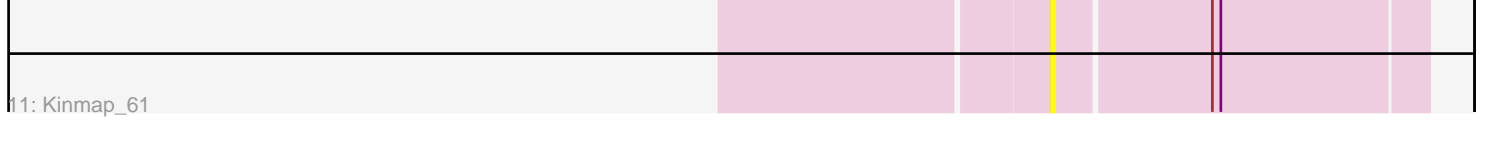
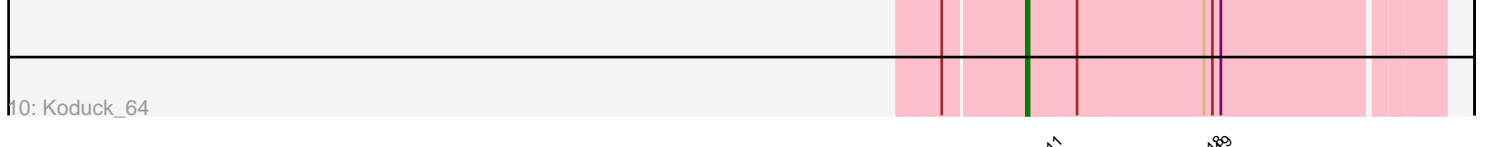
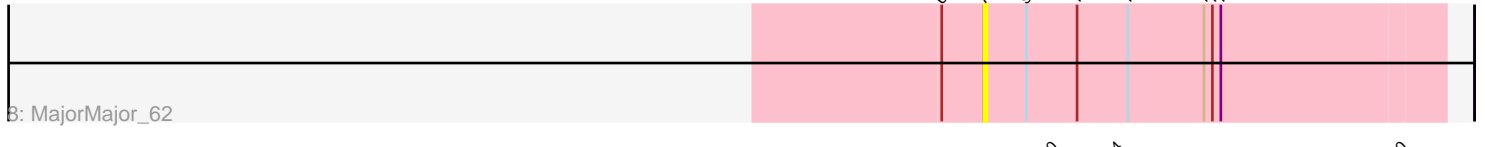
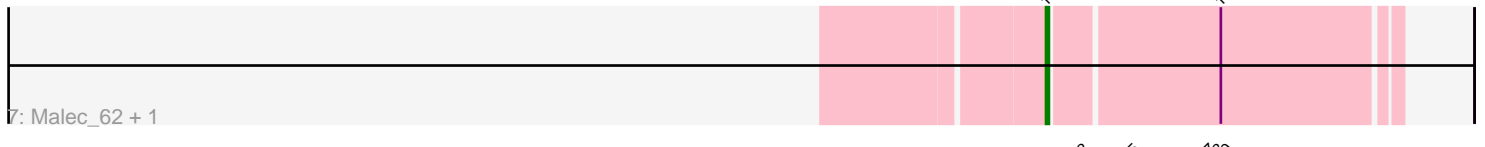
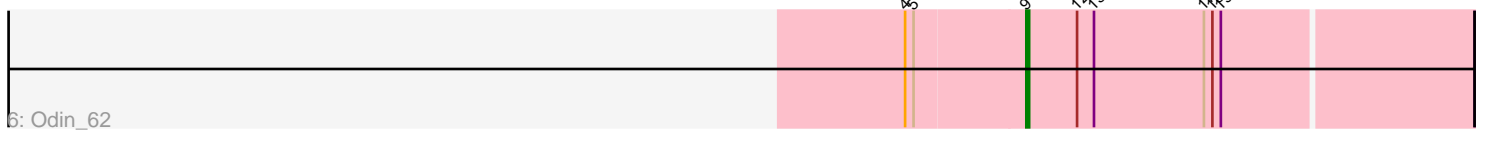
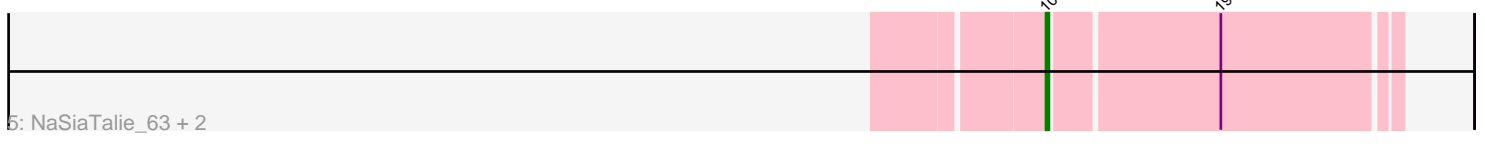
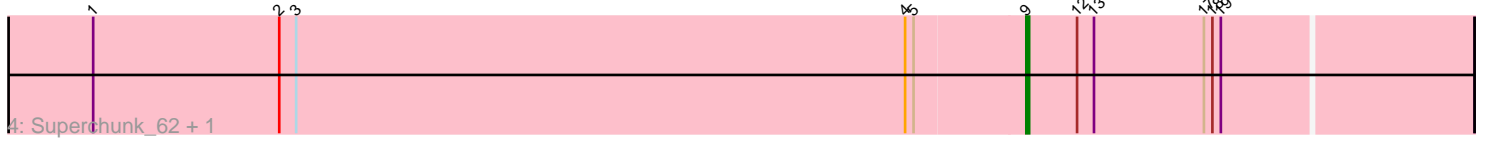
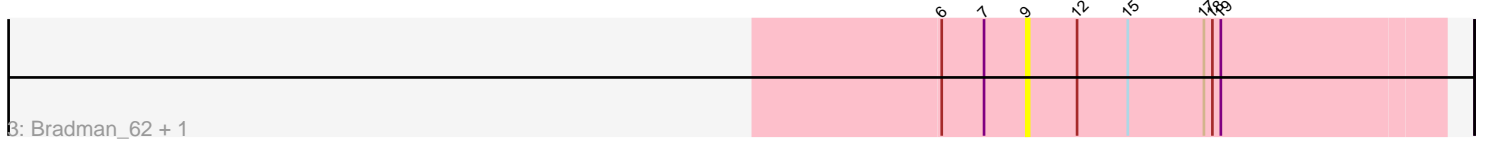
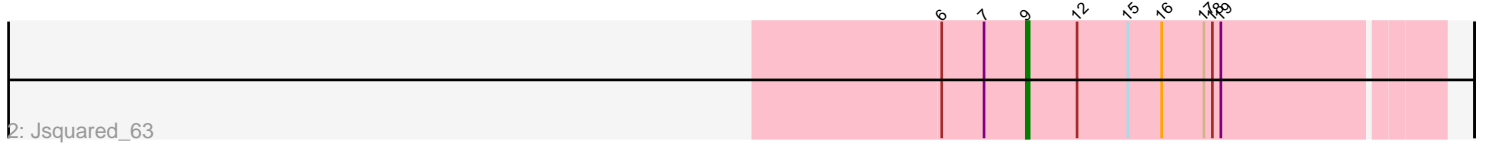
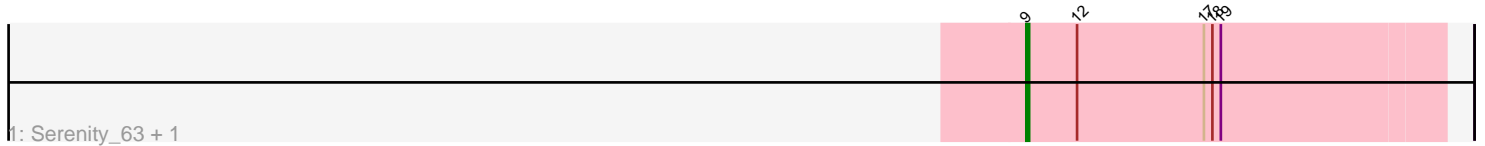


Pham 297037



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 297037 Report

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

Pham number 297037 has 17 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Serenity_63, TipsytheTRex_60
- Track 2 : Jsquared_63
- Track 3 : Bradman_62, Quokka_61
- Track 4 : Superchunk_62, Caraxes_63
- Track 5 : NaSiaTalie_63, Centaur_64, Flare16_63
- Track 6 : Odin_62
- Track 7 : Malec_62, Larenn_61
- Track 8 : MajorMajor_62
- Track 9 : Landor_63
- Track 10 : Koduck_64
- Track 11 : Kinmap_61

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

The start number called the most often in the published annotations is 10, it was called in 6 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Centaur_64, Flare16_63, Landor_63, Larenn_61, Malec_62, NaSiaTalie_63,

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

-

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

- Bradman_62, Caraxes_63, Jsquared_63, Kinmap_61, Koduck_64, MajorMajor_62, Odin_62, Quokka_61, Serenity_63, Superchunk_62, TipsytheTRex_60,

Summary by start number:

Start 7:

- Found in 4 of 17 (23.5%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: MajorMajor_62 (A2),

Start 9:

- Found in 10 of 17 (58.8%) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Bradman_62 (A2), Caraxes_63 (A2), Jsquared_63 (A2), Koduck_64 (A2), Odin_62 (A2), Quokka_61 (A2), Serenity_63 (A2), Superchunk_62 (A2), TipsytheTRex_60 (A2),

Start 10:

- Found in 6 of 17 (35.3%) of genes in pham
- Manual Annotations of this start: 6 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Centaur_64 (A2), Flare16_63 (A2), Landor_63 (A2), Larenn_61 (A2), Malec_62 (A2), NaSiaTalie_63 (A2),

Start 11:

- Found in 1 of 17 (5.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kinmap_61 (A21),

Summary by clusters:

There are 2 clusters represented in this pham: A21, A2,

Info for manual annotations of cluster A2:

- Start number 9 was manually annotated 6 times for cluster A2.
- Start number 10 was manually annotated 6 times for cluster A2.

Gene Information:

Gene: Bradman_62 Start: 39200, Stop: 39054, Start Num: 9

Candidate Starts for Bradman_62:

(6, 39230), (7, 39215), (Start: 9 @39200 has 6 MA's), (12, 39182), (15, 39164), (17, 39137), (18, 39134), (19, 39131),

Gene: Caraxes_63 Start: 38676, Stop: 38521, Start Num: 9

Candidate Starts for Caraxes_63:

(1, 39000), (2, 38934), (3, 38928), (4, 38712), (5, 38709), (Start: 9 @38676 has 6 MA's), (12, 38658), (13, 38652), (17, 38613), (18, 38610), (19, 38607),

Gene: Centaur_64 Start: 40015, Stop: 39899, Start Num: 10

Candidate Starts for Centaur_64:

(Start: 10 @40015 has 6 MA's), (19, 39958),

Gene: Flare16_63 Start: 39676, Stop: 39560, Start Num: 10

Candidate Starts for Flare16_63:

(Start: 10 @39676 has 6 MA's), (19, 39619),

Gene: Jsquared_63 Start: 39358, Stop: 39215, Start Num: 9
Candidate Starts for Jsquared_63:
(6, 39388), (7, 39373), (Start: 9 @39358 has 6 MA's), (12, 39340), (15, 39322), (16, 39310), (17, 39295), (18, 39292), (19, 39289),

Gene: Kinmap_61 Start: 38456, Stop: 38328, Start Num: 11
Candidate Starts for Kinmap_61:
(11, 38456), (18, 38402), (19, 38399),

Gene: Koduck_64 Start: 39295, Stop: 39152, Start Num: 9
Candidate Starts for Koduck_64:
(6, 39316), (Start: 9 @39295 has 6 MA's), (12, 39277), (17, 39232), (18, 39229), (19, 39226),

Gene: Landor_63 Start: 40890, Stop: 40765, Start Num: 10
Candidate Starts for Landor_63:
(8, 40908), (Start: 10 @40890 has 6 MA's), (14, 40869), (20, 40773),

Gene: Larenn_61 Start: 39953, Stop: 39837, Start Num: 10
Candidate Starts for Larenn_61:
(Start: 10 @39953 has 6 MA's), (19, 39896),

Gene: MajorMajor_62 Start: 39215, Stop: 39054, Start Num: 7
Candidate Starts for MajorMajor_62:
(6, 39230), (7, 39215), (Start: 9 @39200 has 6 MA's), (12, 39182), (15, 39164), (17, 39137), (18, 39134), (19, 39131),

Gene: Malec_62 Start: 40520, Stop: 40404, Start Num: 10
Candidate Starts for Malec_62:
(Start: 10 @40520 has 6 MA's), (19, 40463),

Gene: NaSiaTalie_63 Start: 39673, Stop: 39557, Start Num: 10
Candidate Starts for NaSiaTalie_63:
(Start: 10 @39673 has 6 MA's), (19, 39616),

Gene: Odin_62 Start: 39060, Stop: 38905, Start Num: 9
Candidate Starts for Odin_62:
(4, 39096), (5, 39093), (Start: 9 @39060 has 6 MA's), (12, 39042), (13, 39036), (17, 38997), (18, 38994), (19, 38991),

Gene: Quokka_61 Start: 39200, Stop: 39054, Start Num: 9
Candidate Starts for Quokka_61:
(6, 39230), (7, 39215), (Start: 9 @39200 has 6 MA's), (12, 39182), (15, 39164), (17, 39137), (18, 39134), (19, 39131),

Gene: Serenity_63 Start: 39413, Stop: 39267, Start Num: 9
Candidate Starts for Serenity_63:
(Start: 9 @39413 has 6 MA's), (12, 39395), (17, 39350), (18, 39347), (19, 39344),

Gene: Superchunk_62 Start: 38676, Stop: 38521, Start Num: 9
Candidate Starts for Superchunk_62:
(1, 39000), (2, 38934), (3, 38928), (4, 38712), (5, 38709), (Start: 9 @38676 has 6 MA's), (12, 38658), (13, 38652), (17, 38613), (18, 38610), (19, 38607),

Gene: TopsytheTRex_60 Start: 39483, Stop: 39337, Start Num: 9

Candidate Starts for TopsytheTRex_60:

(Start: 9 @39483 has 6 MA's), (12, 39465), (17, 39420), (18, 39417), (19, 39414),