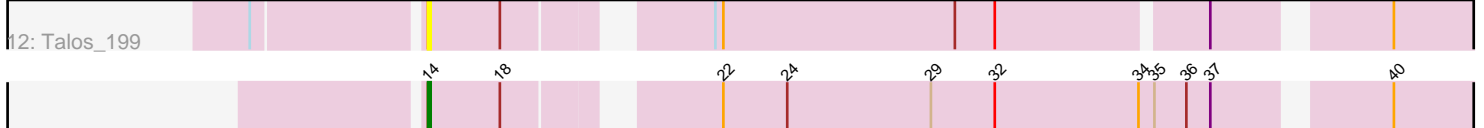
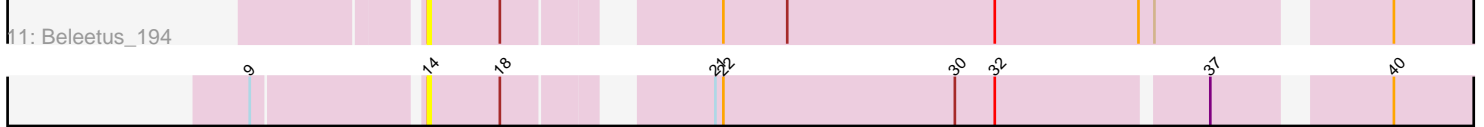
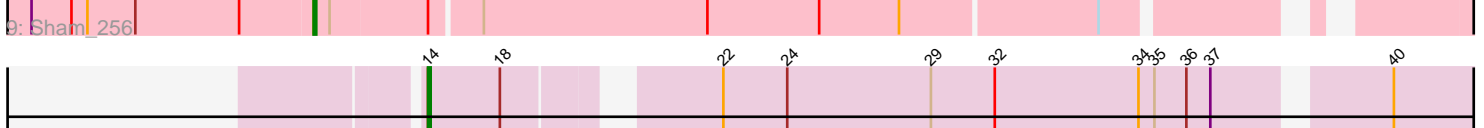
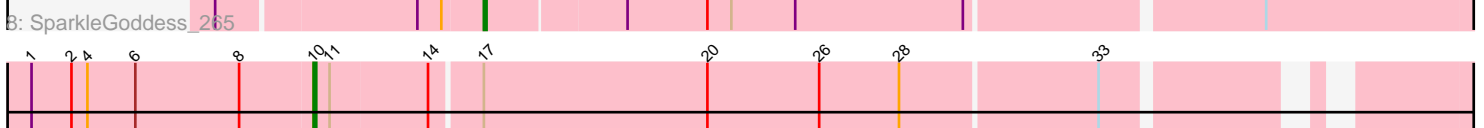
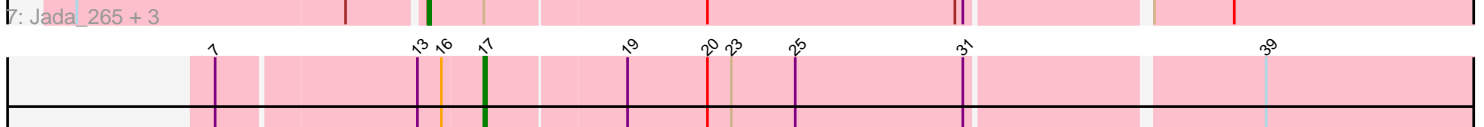
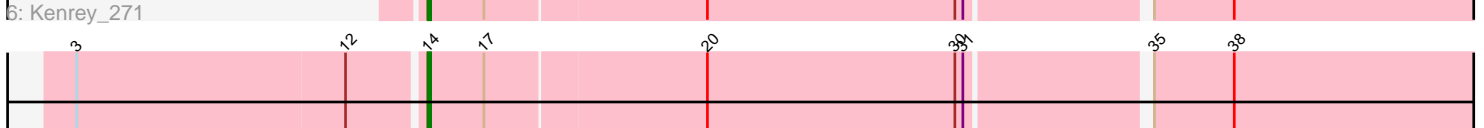
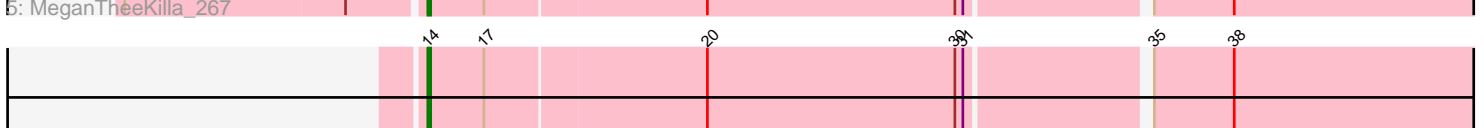
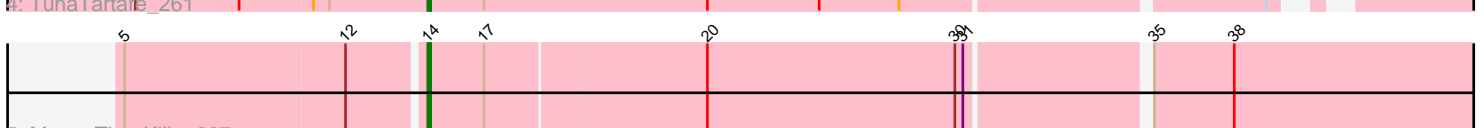
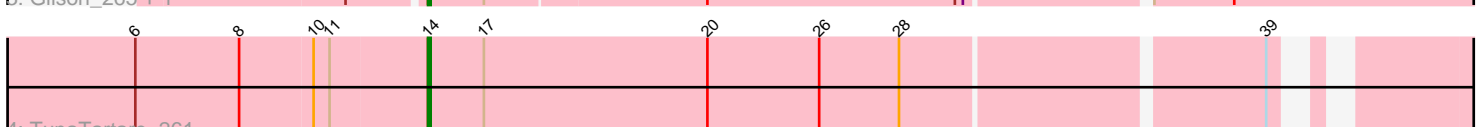
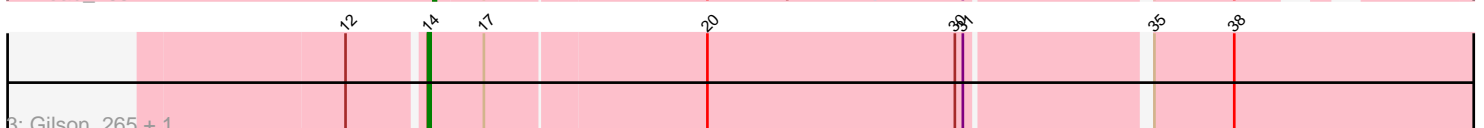
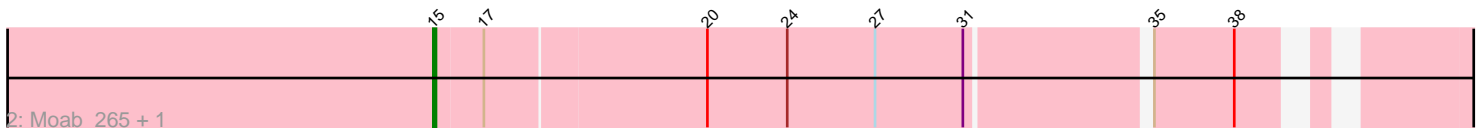
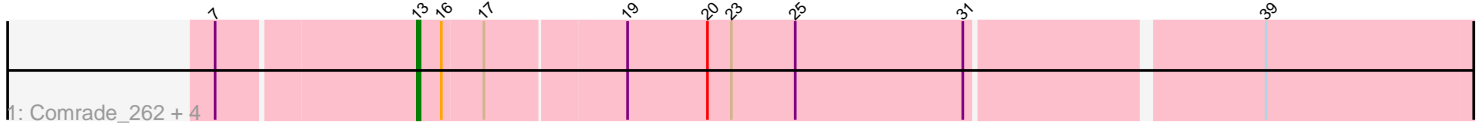


Pham 200409



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 200409 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200409 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Comrade\_262, Karp\_267, Westy\_270, Stigma\_264, Belfort\_267
- Track 2 : Moab\_265, Patelgo\_268
- Track 3 : Gilson\_265, Francob\_268
- Track 4 : TunaTartare\_261
- Track 5 : MeganTheeKilla\_267
- Track 6 : Kenrey\_271
- Track 7 : Jada\_265, Forrest\_264, Emma1919\_266, Phredrick\_271
- Track 8 : SparkleGoddess\_265
- Track 9 : Sham\_256
- Track 10 : LuckySocke\_195
- Track 11 : Beleetus\_194
- Track 12 : Talos\_199
- Track 13 : Alone3\_199

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

The start number called the most often in the published annotations is 14, it was called in 11 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alone3\_199, Beleetus\_194, Emma1919\_266, Forrest\_264, Francob\_268, Gilson\_265, Jada\_265, Kenrey\_271, LuckySocke\_195, MeganTheeKilla\_267, Phredrick\_271, Talos\_199, TunaTartare\_261,

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

- Sham\_256,

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

- Belfort\_267, Comrade\_262, Karp\_267, Moab\_265, Patelgo\_268, SparkleGoddess\_265, Stigma\_264, Westy\_270,

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

Start 10:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Sham\_256 (BK1),

Start 13:

- Found in 6 of 22 ( 27.3% ) of genes in pham
- Manual Annotations of this start: 4 of 19
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Belfort\_267 (BK1), Comrade\_262 (BK1), Karp\_267 (BK1), Stigma\_264 (BK1), Westy\_270 (BK1),

Start 14:

- Found in 14 of 22 ( 63.6% ) of genes in pham
- Manual Annotations of this start: 11 of 19
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Alone3\_199 (BS), Beleetus\_194 (BS), Emma1919\_266 (BK1), Forrest\_264 (BK1), Francob\_268 (BK1), Gilson\_265 (BK1), Jada\_265 (BK1), Kenrey\_271 (BK1), LuckySocke\_195 (BS), MeganTheeKilla\_267 (BK1), Phredrick\_271 (BK1), Talos\_199 (BS), TunaTartare\_261 (BK1),

Start 15:

- Found in 2 of 22 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Moab\_265 (BK1), Patelgo\_268 (BK1),

Start 17:

- Found in 18 of 22 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 5.6% of time when present
- Phage (with cluster) where this start called: SparkleGoddess\_265 (BK1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BK1, BS,

Info for manual annotations of cluster BK1:

- Start number 10 was manually annotated 1 time for cluster BK1.
- Start number 13 was manually annotated 4 times for cluster BK1.
- Start number 14 was manually annotated 9 times for cluster BK1.
- Start number 15 was manually annotated 2 times for cluster BK1.
- Start number 17 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BS:

- Start number 14 was manually annotated 2 times for cluster BS.

### **Gene Information:**

Gene: Alone3\_199 Start: 103287, Stop: 103649, Start Num: 14

Candidate Starts for Alone3\_199:

(Start: 14 @103287 has 11 MA's), (18, 103314), (22, 103380), (24, 103404), (29, 103458), (32, 103482), (34, 103536), (35, 103542), (36, 103554), (37, 103563), (40, 103620),

Gene: Beleetus\_194 Start: 101184, Stop: 101546, Start Num: 14

Candidate Starts for Beleetus\_194:

(Start: 14 @101184 has 11 MA's), (18, 101211), (22, 101277), (24, 101301), (32, 101379), (34, 101433), (35, 101439), (40, 101517),

Gene: Belfort\_267 Start: 127179, Stop: 127565, Start Num: 13

Candidate Starts for Belfort\_267:

(7, 127107), (Start: 13 @127179 has 4 MA's), (16, 127188), (Start: 17 @127203 has 1 MA's), (19, 127254), (20, 127284), (23, 127293), (25, 127317), (31, 127380), (39, 127485),

Gene: Comrade\_262 Start: 127318, Stop: 127704, Start Num: 13

Candidate Starts for Comrade\_262:

(7, 127246), (Start: 13 @127318 has 4 MA's), (16, 127327), (Start: 17 @127342 has 1 MA's), (19, 127393), (20, 127423), (23, 127432), (25, 127456), (31, 127519), (39, 127624),

Gene: Emma1919\_266 Start: 126331, Stop: 126711, Start Num: 14

Candidate Starts for Emma1919\_266:

(3, 126205), (12, 126304), (Start: 14 @126331 has 11 MA's), (Start: 17 @126352 has 1 MA's), (20, 126433), (30, 126526), (31, 126529), (35, 126592), (38, 126622),

Gene: Forrest\_264 Start: 126768, Stop: 127148, Start Num: 14

Candidate Starts for Forrest\_264:

(3, 126642), (12, 126741), (Start: 14 @126768 has 11 MA's), (Start: 17 @126789 has 1 MA's), (20, 126870), (30, 126963), (31, 126966), (35, 127029), (38, 127059),

Gene: Francob\_268 Start: 127056, Stop: 127436, Start Num: 14

Candidate Starts for Francob\_268:

(12, 127029), (Start: 14 @127056 has 11 MA's), (Start: 17 @127077 has 1 MA's), (20, 127158), (30, 127251), (31, 127254), (35, 127317), (38, 127347),

Gene: Gilson\_265 Start: 126593, Stop: 126973, Start Num: 14

Candidate Starts for Gilson\_265:

(12, 126566), (Start: 14 @126593 has 11 MA's), (Start: 17 @126614 has 1 MA's), (20, 126695), (30, 126788), (31, 126791), (35, 126854), (38, 126884),

Gene: Jada\_265 Start: 126008, Stop: 126388, Start Num: 14

Candidate Starts for Jada\_265:

(3, 125882), (12, 125981), (Start: 14 @126008 has 11 MA's), (Start: 17 @126029 has 1 MA's), (20, 126110), (30, 126203), (31, 126206), (35, 126269), (38, 126299),

Gene: Karp\_267 Start: 128776, Stop: 129162, Start Num: 13

Candidate Starts for Karp\_267:

(7, 128704), (Start: 13 @128776 has 4 MA's), (16, 128785), (Start: 17 @128800 has 1 MA's), (19, 128851), (20, 128881), (23, 128890), (25, 128914), (31, 128977), (39, 129082),

Gene: Kenrey\_271 Start: 127809, Stop: 128189, Start Num: 14

Candidate Starts for Kenrey\_271:

(Start: 14 @127809 has 11 MA's), (Start: 17 @127830 has 1 MA's), (20, 127911), (30, 128004), (31, 128007), (35, 128070), (38, 128100),

Gene: LuckySocke\_195 Start: 101031, Stop: 101393, Start Num: 14

Candidate Starts for LuckySocke\_195:

(Start: 14 @101031 has 11 MA's), (18, 101058), (22, 101124), (24, 101148), (29, 101202), (32, 101226), (34, 101280), (35, 101286), (36, 101298), (37, 101307), (40, 101364),

Gene: MeganTheeKilla\_267 Start: 126407, Stop: 126787, Start Num: 14

Candidate Starts for MeganTheeKilla\_267:

(5, 126299), (12, 126380), (Start: 14 @126407 has 11 MA's), (Start: 17 @126428 has 1 MA's), (20, 126509), (30, 126602), (31, 126605), (35, 126668), (38, 126698),

Gene: Moab\_265 Start: 127438, Stop: 127803, Start Num: 15

Candidate Starts for Moab\_265:

(Start: 15 @127438 has 2 MA's), (Start: 17 @127456 has 1 MA's), (20, 127537), (24, 127567), (27, 127600), (31, 127633), (35, 127696), (38, 127726),

Gene: Patelgo\_268 Start: 128371, Stop: 128736, Start Num: 15

Candidate Starts for Patelgo\_268:

(Start: 15 @128371 has 2 MA's), (Start: 17 @128389 has 1 MA's), (20, 128470), (24, 128500), (27, 128533), (31, 128566), (35, 128629), (38, 128659),

Gene: Phredrick\_271 Start: 127129, Stop: 127509, Start Num: 14

Candidate Starts for Phredrick\_271:

(3, 127003), (12, 127102), (Start: 14 @127129 has 11 MA's), (Start: 17 @127150 has 1 MA's), (20, 127231), (30, 127324), (31, 127327), (35, 127390), (38, 127420),

Gene: Sham\_256 Start: 127487, Stop: 127888, Start Num: 10

Candidate Starts for Sham\_256:

(1, 127382), (2, 127397), (4, 127403), (6, 127421), (8, 127460), (Start: 10 @127487 has 1 MA's), (11, 127493), (Start: 14 @127529 has 11 MA's), (Start: 17 @127547 has 1 MA's), (20, 127631), (26, 127673), (28, 127703), (33, 127775),

Gene: SparkleGoddess\_265 Start: 128069, Stop: 128431, Start Num: 17

Candidate Starts for SparkleGoddess\_265:

(7, 127973), (Start: 13 @128045 has 4 MA's), (16, 128054), (Start: 17 @128069 has 1 MA's), (19, 128120), (20, 128150), (23, 128159), (25, 128183), (31, 128246), (39, 128351),

Gene: Stigma\_264 Start: 127758, Stop: 128144, Start Num: 13

Candidate Starts for Stigma\_264:

(7, 127686), (Start: 13 @127758 has 4 MA's), (16, 127767), (Start: 17 @127782 has 1 MA's), (19, 127833), (20, 127863), (23, 127872), (25, 127896), (31, 127959), (39, 128064),

Gene: Talos\_199 Start: 101808, Stop: 102164, Start Num: 14

Candidate Starts for Talos\_199:

(9, 101748), (Start: 14 @101808 has 11 MA's), (18, 101835), (21, 101898), (22, 101901), (30, 101988), (32, 102003), (37, 102078), (40, 102135),

Gene: TunaTartare\_261 Start: 128151, Stop: 128513, Start Num: 14

Candidate Starts for TunaTartare\_261:

(6, 128043), (8, 128082), (Start: 10 @128109 has 1 MA's), (11, 128115), (Start: 14 @128151 has 11 MA's), (Start: 17 @128172 has 1 MA's), (20, 128256), (26, 128298), (28, 128328), (39, 128457),

Gene: Westy\_270 Start: 128582, Stop: 128968, Start Num: 13

Candidate Starts for Westy\_270:

(7, 128510), (Start: 13 @128582 has 4 MA's), (16, 128591), (Start: 17 @128606 has 1 MA's), (19, 128657), (20, 128687), (23, 128696), (25, 128720), (31, 128783), (39, 128888),