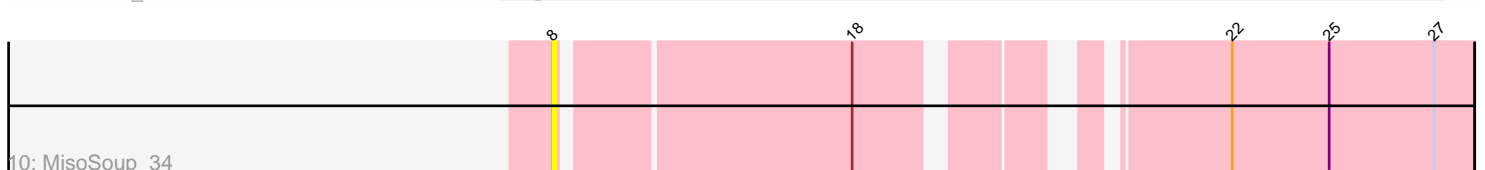
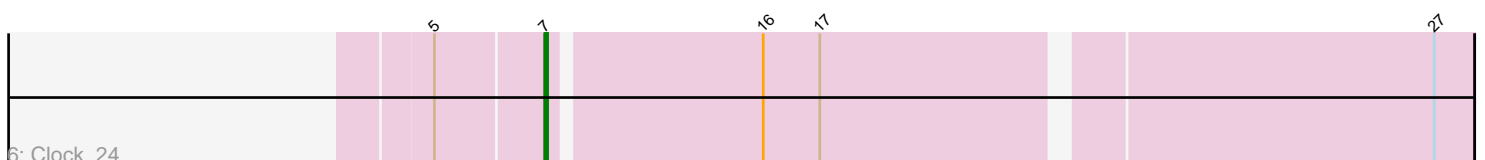
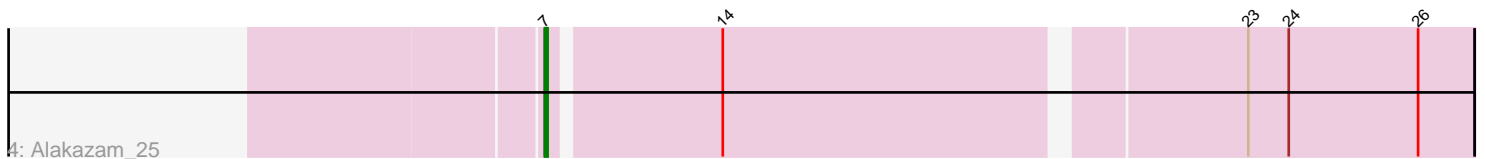
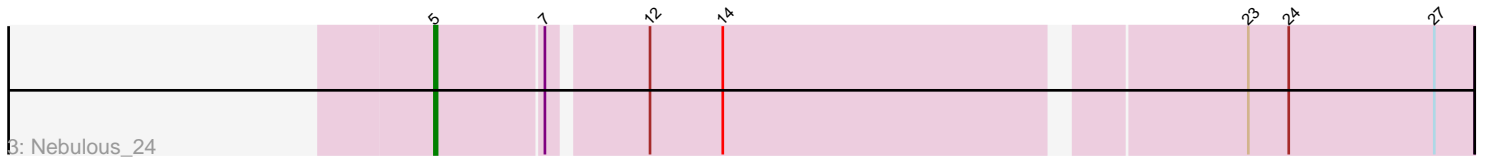
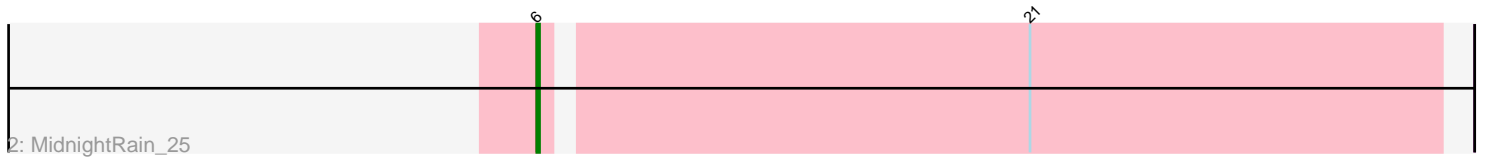
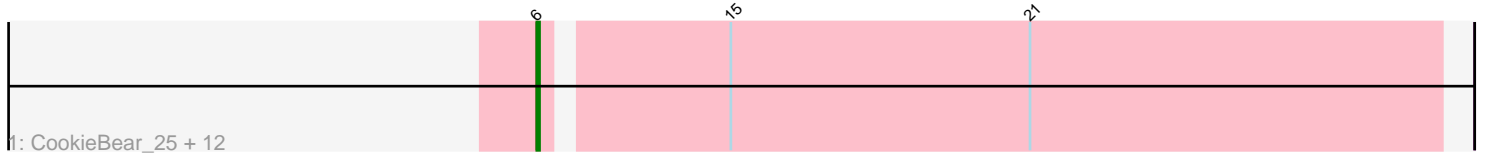


Pham 309260



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 309260 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309260 has 22 members, 4 are drafts.

Phages represented in each track:

- Track 1 : CookieBear_25, Aikyam_25, YoungHarleezy_25, Auxilium_25, BasketStar_25, BlueShadow_25, RadFad_25, MaterMagnus_25, Windest_26, Hillester_25, BenchScraper_25, Lasker_25, Richie_25
- Track 2 : MidnightRain_25
- Track 3 : Nebulous_24
- Track 4 : Alakazam_25
- Track 5 : Neferthena_24
- Track 6 : Clock_24
- Track 7 : Gusanita_22
- Track 8 : Khuang_19
- Track 9 : Altostratus_19
- Track 10 : MisoSoup_34

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

The start number called the most often in the published annotations is 6, it was called in 14 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aikyam_25, Altostratus_19, Auxilium_25, BasketStar_25, BenchScraper_25, BlueShadow_25, CookieBear_25, Gusanita_22, Hillester_25, Khuang_19, Lasker_25, MaterMagnus_25, MidnightRain_25, RadFad_25, Richie_25, Windest_26, YoungHarleezy_25,

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

-

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

- Alakazam_25, Clock_24, MisoSoup_34, Nebulous_24, Neferthena_24,

Summary by start number:

Start 5:

- Found in 3 of 22 (13.6%) of genes in pham

- Manual Annotations of this start: 2 of 18
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Nebulous_24 (EA5), Neferthena_24 (EA5),

Start 6:

- Found in 17 of 22 (77.3%) of genes in pham
- Manual Annotations of this start: 14 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aikyam_25 (AY), Altostratus_19 (FS), Auxilium_25 (AY), BasketStar_25 (AY), BenchScraper_25 (AY), BlueShadow_25 (AY), CookieBear_25 (AY), Gusanita_22 (FF), Hillester_25 (AY), Khuang_19 (FS), Lasker_25 (AY), MaterMagnus_25 (AY), MidnightRain_25 (AY), RadFad_25 (AY), Richie_25 (AY), Windest_26 (AY), YoungHarleezy_25 (AY),

Start 7:

- Found in 4 of 22 (18.2%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Alakazam_25 (EA5), Clock_24 (EA5),

Start 8:

- Found in 1 of 22 (4.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MisoSoup_34 (GM),

Summary by clusters:

There are 5 clusters represented in this pham: AY, GM, FS, EA5, FF,

Info for manual annotations of cluster AY:

- Start number 6 was manually annotated 12 times for cluster AY.

Info for manual annotations of cluster EA5:

- Start number 5 was manually annotated 2 times for cluster EA5.
- Start number 7 was manually annotated 2 times for cluster EA5.

Info for manual annotations of cluster FF:

- Start number 6 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FS:

- Start number 6 was manually annotated 1 time for cluster FS.

Gene Information:

Gene: Aikyam_25 Start: 19004, Stop: 19330, Start Num: 6

Candidate Starts for Aikyam_25:

(Start: 6 @19004 has 14 MA's), (15, 19067), (21, 19178),

Gene: Alakazam_25 Start: 19029, Stop: 19355, Start Num: 7
Candidate Starts for Alakazam_25:
(Start: 7 @19029 has 2 MA's), (14, 19089), (23, 19272), (24, 19287), (26, 19335),

Gene: Altostratus_19 Start: 16267, Stop: 16602, Start Num: 6
Candidate Starts for Altostratus_19:
(Start: 6 @16267 has 14 MA's), (13, 16312), (19, 16408), (21, 16450),

Gene: Auxilium_25 Start: 19003, Stop: 19329, Start Num: 6
Candidate Starts for Auxilium_25:
(Start: 6 @19003 has 14 MA's), (15, 19066), (21, 19177),

Gene: BasketStar_25 Start: 19057, Stop: 19383, Start Num: 6
Candidate Starts for BasketStar_25:
(Start: 6 @19057 has 14 MA's), (15, 19120), (21, 19231),

Gene: BenchScraper_25 Start: 19018, Stop: 19344, Start Num: 6
Candidate Starts for BenchScraper_25:
(Start: 6 @19018 has 14 MA's), (15, 19081), (21, 19192),

Gene: BlueShadow_25 Start: 19003, Stop: 19329, Start Num: 6
Candidate Starts for BlueShadow_25:
(Start: 6 @19003 has 14 MA's), (15, 19066), (21, 19177),

Gene: Clock_24 Start: 19574, Stop: 19900, Start Num: 7
Candidate Starts for Clock_24:
(Start: 5 @19535 has 2 MA's), (Start: 7 @19574 has 2 MA's), (16, 19649), (17, 19670), (27, 19886),

Gene: CookieBear_25 Start: 19003, Stop: 19329, Start Num: 6
Candidate Starts for CookieBear_25:
(Start: 6 @19003 has 14 MA's), (15, 19066), (21, 19177),

Gene: Gusanita_22 Start: 18132, Stop: 18467, Start Num: 6
Candidate Starts for Gusanita_22:
(1, 17967), (2, 17991), (3, 18006), (4, 18042), (Start: 6 @18132 has 14 MA's), (9, 18150), (18, 18249),
(19, 18273), (20, 18312), (21, 18315),

Gene: Hillester_25 Start: 19003, Stop: 19329, Start Num: 6
Candidate Starts for Hillester_25:
(Start: 6 @19003 has 14 MA's), (15, 19066), (21, 19177),

Gene: Khuang_19 Start: 16503, Stop: 16838, Start Num: 6
Candidate Starts for Khuang_19:
(Start: 6 @16503 has 14 MA's), (10, 16533), (11, 16542), (21, 16686),

Gene: Lasker_25 Start: 19011, Stop: 19337, Start Num: 6
Candidate Starts for Lasker_25:
(Start: 6 @19011 has 14 MA's), (15, 19074), (21, 19185),

Gene: MaterMagnus_25 Start: 19004, Stop: 19330, Start Num: 6
Candidate Starts for MaterMagnus_25:
(Start: 6 @19004 has 14 MA's), (15, 19067), (21, 19178),

Gene: MidnightRain_25 Start: 19002, Stop: 19328, Start Num: 6
Candidate Starts for MidnightRain_25:
(Start: 6 @19002 has 14 MA's), (21, 19176),

Gene: MisoSoup_34 Start: 26186, Stop: 26485, Start Num: 8
Candidate Starts for MisoSoup_34:
(8, 26186), (18, 26288), (22, 26396), (25, 26432), (27, 26471),

Gene: Nebulous_24 Start: 19563, Stop: 19928, Start Num: 5
Candidate Starts for Nebulous_24:
(Start: 5 @19563 has 2 MA's), (Start: 7 @19602 has 2 MA's), (12, 19635), (14, 19662), (23, 19845),
(24, 19860), (27, 19914),

Gene: Neferthena_24 Start: 19567, Stop: 19932, Start Num: 5
Candidate Starts for Neferthena_24:
(Start: 5 @19567 has 2 MA's), (Start: 7 @19606 has 2 MA's), (16, 19681), (17, 19702), (27, 19918),

Gene: RadFad_25 Start: 19003, Stop: 19329, Start Num: 6
Candidate Starts for RadFad_25:
(Start: 6 @19003 has 14 MA's), (15, 19066), (21, 19177),

Gene: Richie_25 Start: 19018, Stop: 19344, Start Num: 6
Candidate Starts for Richie_25:
(Start: 6 @19018 has 14 MA's), (15, 19081), (21, 19192),

Gene: Windest_26 Start: 19059, Stop: 19385, Start Num: 6
Candidate Starts for Windest_26:
(Start: 6 @19059 has 14 MA's), (15, 19122), (21, 19233),

Gene: YoungHarleezy_25 Start: 19016, Stop: 19342, Start Num: 6
Candidate Starts for YoungHarleezy_25:
(Start: 6 @19016 has 14 MA's), (15, 19079), (21, 19190),