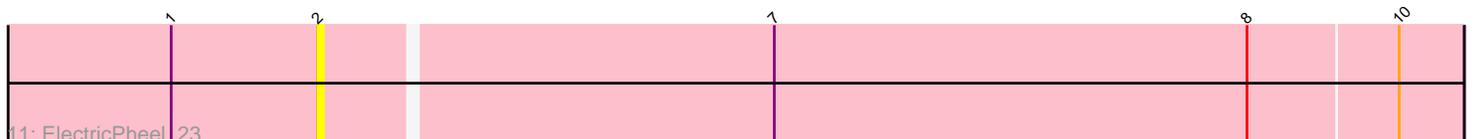
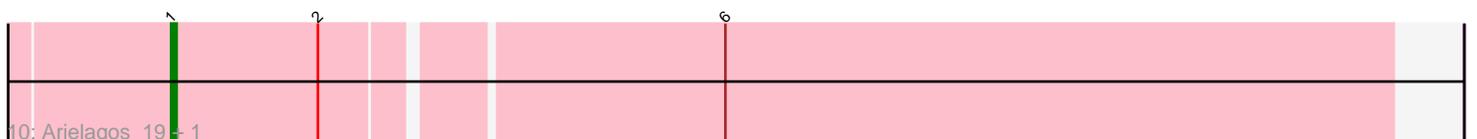
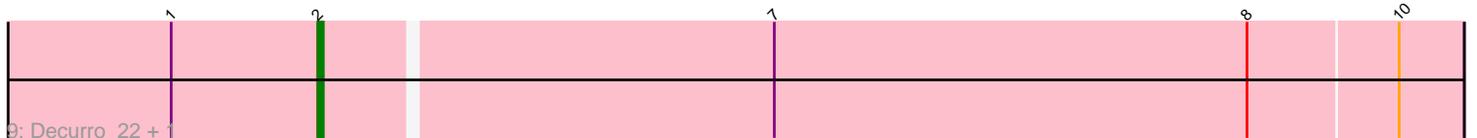
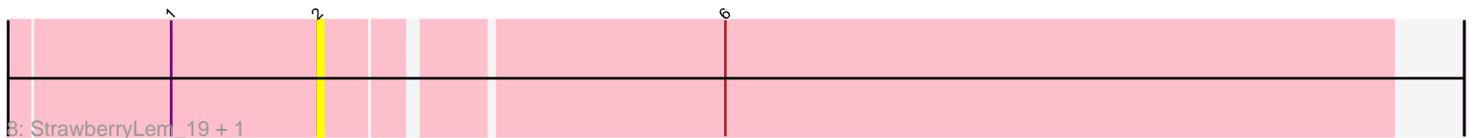
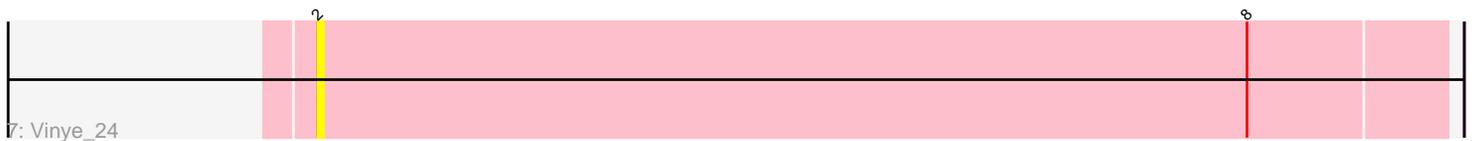
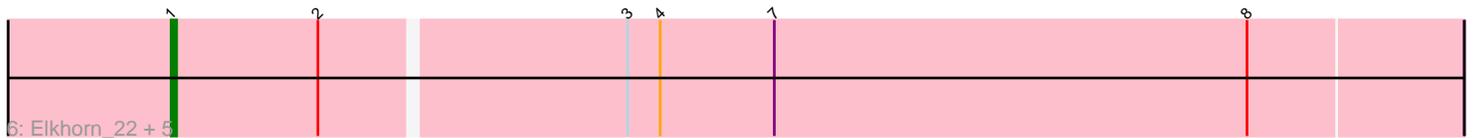
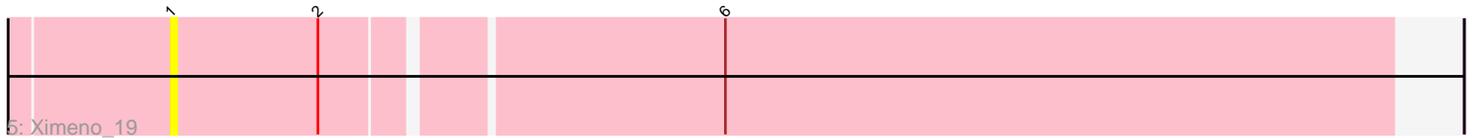
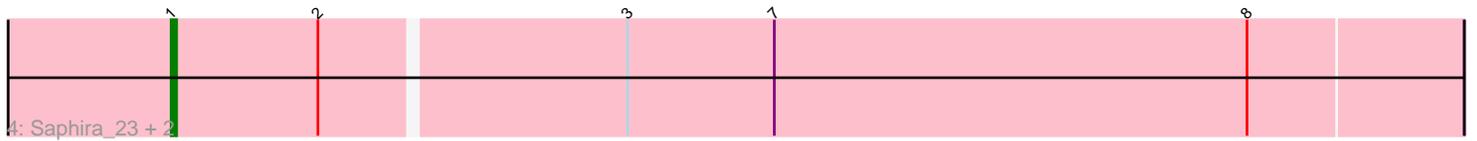
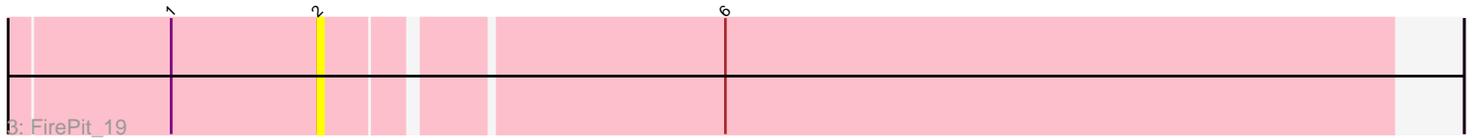
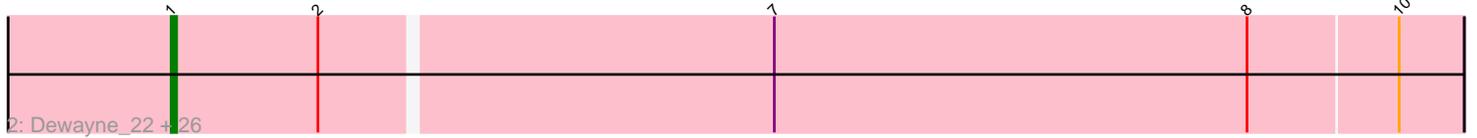
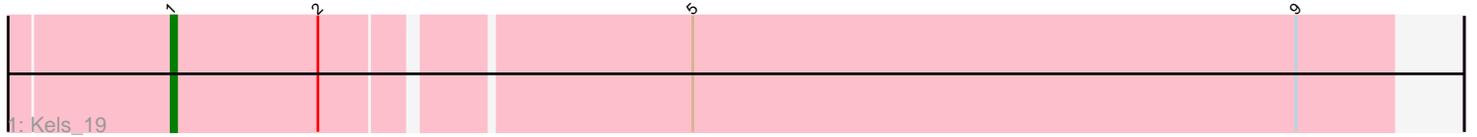


Pham 282283



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 282283 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282283 has 47 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Kels_19
- Track 2 : Dewayne_22, Hunnie_22, Ronnie_22, LouisXIV_22, Inspire2_22, Sandman_22, Azathoth_22, Courtney3_22, Muttlie_22, TinoCrisci_22, Arby_22, Moloch_22, Stratus_22, TymAbreu_22, CGermain_22, Prospero_22, Massimo_22, Yank_22, Mariposa_22, Guntur_22, Maggie_22, Sourignavong_23, Copper_22, Chestnut_22, Link_22, Seume_22, Toulouse_21
- Track 3 : FirePit_19
- Track 4 : Saphira_23, Taj14_22, Swenson_22
- Track 5 : Ximeno_19
- Track 6 : Elkhorn_22, StewieGriff_22, Blair_22, Lore_22, KylieMac_23, Laila_24
- Track 7 : Vinye_24
- Track 8 : StrawberryLem_19, Eyoseyas_19
- Track 9 : Decurro_22, Jessica_23
- Track 10 : Arielagos_19, SerialPhiller_19
- Track 11 : ElectricPheel_23

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 39 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arby_22, Arielagos_19, Azathoth_22, Blair_22, CGermain_22, Chestnut_22, Copper_22, Courtney3_22, Dewayne_22, Elkhorn_22, Guntur_22, Hunnie_22, Inspire2_22, Kels_19, KylieMac_23, Laila_24, Link_22, Lore_22, LouisXIV_22, Maggie_22, Mariposa_22, Massimo_22, Moloch_22, Muttlie_22, Prospero_22, Ronnie_22, Sandman_22, Saphira_23, SerialPhiller_19, Seume_22, Sourignavong_23, StewieGriff_22, Stratus_22, Swenson_22, Taj14_22, TinoCrisci_22, Toulouse_21, TymAbreu_22, Ximeno_19, Yank_22,

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

- Decurro_22, ElectricPheel_23, Eyoseyas_19, FirePit_19, Jessica_23, StrawberryLem_19,

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

- Vinye_24,

Summary by start number:

Start 1:

- Found in 46 of 47 (97.9%) of genes in pham
- Manual Annotations of this start: 39 of 41
- Called 87.0% of time when present
- Phage (with cluster) where this start called: Arby_22 (AN), Arielagos_19 (AN), Azathoth_22 (AN), Blair_22 (AN), CGermain_22 (AN), Chestnut_22 (AN), Copper_22 (AN), Courtney3_22 (AN), Dewayne_22 (AN), Elkhorn_22 (AN), Guntur_22 (AN), Hunnie_22 (AN), Inspire2_22 (AN), Kels_19 (AN), KylieMac_23 (AN), Laila_24 (AN), Link_22 (AN), Lore_22 (AN), LouisXIV_22 (AN), Maggie_22 (AN), Mariposa_22 (AN), Massimo_22 (AN), Moloch_22 (AN), Muttie_22 (AN), Prospero_22 (AN), Ronnie_22 (AN), Sandman_22 (AN), Saphira_23 (AN), SerialPhiller_19 (AN), Seume_22 (AN), Sourignavong_23 (AN), StewieGriff_22 (AN), Stratus_22 (AN), Swenson_22 (AN), Taj14_22 (AN), TinoCrisci_22 (AN), Toulouse_21 (AN), TymAbreu_22 (AN), Ximeno_19 (AN), Yank_22 (AN),

Start 2:

- Found in 47 of 47 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 41
- Called 14.9% of time when present
- Phage (with cluster) where this start called: Decurro_22 (AN), ElectricPheel_23 (AN), Eyoseyas_19 (AN), FirePit_19 (AN), Jessica_23 (AN), StrawberryLem_19 (AN), Vinye_24 (AN),

Summary by clusters:

There is one cluster represented in this pham: AN

Info for manual annotations of cluster AN:

- Start number 1 was manually annotated 39 times for cluster AN.
- Start number 2 was manually annotated 2 times for cluster AN.

Gene Information:

Gene: Arby_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Arby_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Arielagos_19 Start: 13063, Stop: 13281, Start Num: 1

Candidate Starts for Arielagos_19:

(Start: 1 @13063 has 39 MA's), (Start: 2 @13090 has 2 MA's), (6, 13159),

Gene: Azathoth_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Azathoth_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Blair_22 Start: 13883, Stop: 14116, Start Num: 1

Candidate Starts for Blair_22:

(Start: 1 @13883 has 39 MA's), (Start: 2 @13910 has 2 MA's), (3, 13964), (4, 13970), (7, 13991), (8, 14078),

Gene: CGermain_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for CGermain_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Chestnut_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Chestnut_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Copper_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Copper_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Courtney3_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Courtney3_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Decurro_22 Start: 13881, Stop: 14087, Start Num: 2

Candidate Starts for Decurro_22:

(Start: 1 @13854 has 39 MA's), (Start: 2 @13881 has 2 MA's), (7, 13962), (8, 14049), (10, 14076),

Gene: Dewayne_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Dewayne_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: ElectricPheel_23 Start: 13954, Stop: 14160, Start Num: 2

Candidate Starts for ElectricPheel_23:

(Start: 1 @13927 has 39 MA's), (Start: 2 @13954 has 2 MA's), (7, 14035), (8, 14122), (10, 14149),

Gene: Elkhorn_22 Start: 13883, Stop: 14116, Start Num: 1

Candidate Starts for Elkhorn_22:

(Start: 1 @13883 has 39 MA's), (Start: 2 @13910 has 2 MA's), (3, 13964), (4, 13970), (7, 13991), (8, 14078),

Gene: Eyoseyas_19 Start: 13090, Stop: 13281, Start Num: 2

Candidate Starts for Eyoseyas_19:

(Start: 1 @13063 has 39 MA's), (Start: 2 @13090 has 2 MA's), (6, 13159),

Gene: FirePit_19 Start: 13103, Stop: 13294, Start Num: 2

Candidate Starts for FirePit_19:

(Start: 1 @13076 has 39 MA's), (Start: 2 @13103 has 2 MA's), (6, 13172),

Gene: Guntur_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Guntur_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Hunnie_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Hunnie_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Inspire2_22 Start: 13886, Stop: 14119, Start Num: 1
Candidate Starts for Inspire2_22:
(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Jessica_23 Start: 13913, Stop: 14119, Start Num: 2
Candidate Starts for Jessica_23:
(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Kels_19 Start: 13001, Stop: 13219, Start Num: 1
Candidate Starts for Kels_19:
(Start: 1 @13001 has 39 MA's), (Start: 2 @13028 has 2 MA's), (5, 13091), (9, 13202),

Gene: KylieMac_23 Start: 13870, Stop: 14103, Start Num: 1
Candidate Starts for KylieMac_23:
(Start: 1 @13870 has 39 MA's), (Start: 2 @13897 has 2 MA's), (3, 13951), (4, 13957), (7, 13978), (8, 14065),

Gene: Laila_24 Start: 13883, Stop: 14116, Start Num: 1
Candidate Starts for Laila_24:
(Start: 1 @13883 has 39 MA's), (Start: 2 @13910 has 2 MA's), (3, 13964), (4, 13970), (7, 13991), (8, 14078),

Gene: Link_22 Start: 13851, Stop: 14084, Start Num: 1
Candidate Starts for Link_22:
(Start: 1 @13851 has 39 MA's), (Start: 2 @13878 has 2 MA's), (7, 13959), (8, 14046), (10, 14073),

Gene: Lore_22 Start: 13883, Stop: 14116, Start Num: 1
Candidate Starts for Lore_22:
(Start: 1 @13883 has 39 MA's), (Start: 2 @13910 has 2 MA's), (3, 13964), (4, 13970), (7, 13991), (8, 14078),

Gene: LouisXIV_22 Start: 13886, Stop: 14119, Start Num: 1
Candidate Starts for LouisXIV_22:
(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Maggie_22 Start: 13886, Stop: 14119, Start Num: 1
Candidate Starts for Maggie_22:
(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Mariposa_22 Start: 13886, Stop: 14119, Start Num: 1
Candidate Starts for Mariposa_22:
(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Massimo_22 Start: 13886, Stop: 14119, Start Num: 1
Candidate Starts for Massimo_22:
(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Moloch_22 Start: 13960, Stop: 14193, Start Num: 1
Candidate Starts for Moloch_22:
(Start: 1 @13960 has 39 MA's), (Start: 2 @13987 has 2 MA's), (7, 14068), (8, 14155), (10, 14182),

Gene: Muttie_22 Start: 13854, Stop: 14087, Start Num: 1
Candidate Starts for Muttie_22:

(Start: 1 @13854 has 39 MA's), (Start: 2 @13881 has 2 MA's), (7, 13962), (8, 14049), (10, 14076),

Gene: Prospero_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Prospero_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Ronnie_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for Ronnie_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Sandman_22 Start: 13960, Stop: 14193, Start Num: 1

Candidate Starts for Sandman_22:

(Start: 1 @13960 has 39 MA's), (Start: 2 @13987 has 2 MA's), (7, 14068), (8, 14155), (10, 14182),

Gene: Saphira_23 Start: 13885, Stop: 14118, Start Num: 1

Candidate Starts for Saphira_23:

(Start: 1 @13885 has 39 MA's), (Start: 2 @13912 has 2 MA's), (3, 13966), (7, 13993), (8, 14080),

Gene: SerialPhiller_19 Start: 13063, Stop: 13281, Start Num: 1

Candidate Starts for SerialPhiller_19:

(Start: 1 @13063 has 39 MA's), (Start: 2 @13090 has 2 MA's), (6, 13159),

Gene: Seume_22 Start: 13649, Stop: 13882, Start Num: 1

Candidate Starts for Seume_22:

(Start: 1 @13649 has 39 MA's), (Start: 2 @13676 has 2 MA's), (7, 13757), (8, 13844), (10, 13871),

Gene: Sourignavong_23 Start: 13955, Stop: 14188, Start Num: 1

Candidate Starts for Sourignavong_23:

(Start: 1 @13955 has 39 MA's), (Start: 2 @13982 has 2 MA's), (7, 14063), (8, 14150), (10, 14177),

Gene: StewieGriff_22 Start: 13883, Stop: 14116, Start Num: 1

Candidate Starts for StewieGriff_22:

(Start: 1 @13883 has 39 MA's), (Start: 2 @13910 has 2 MA's), (3, 13964), (4, 13970), (7, 13991), (8, 14078),

Gene: Stratus_22 Start: 13960, Stop: 14193, Start Num: 1

Candidate Starts for Stratus_22:

(Start: 1 @13960 has 39 MA's), (Start: 2 @13987 has 2 MA's), (7, 14068), (8, 14155), (10, 14182),

Gene: StrawberryLem_19 Start: 13015, Stop: 13206, Start Num: 2

Candidate Starts for StrawberryLem_19:

(Start: 1 @12988 has 39 MA's), (Start: 2 @13015 has 2 MA's), (6, 13084),

Gene: Swenson_22 Start: 14007, Stop: 14240, Start Num: 1

Candidate Starts for Swenson_22:

(Start: 1 @14007 has 39 MA's), (Start: 2 @14034 has 2 MA's), (3, 14088), (7, 14115), (8, 14202),

Gene: Taj14_22 Start: 13882, Stop: 14115, Start Num: 1

Candidate Starts for Taj14_22:

(Start: 1 @13882 has 39 MA's), (Start: 2 @13909 has 2 MA's), (3, 13963), (7, 13990), (8, 14077),

Gene: TinoCrisci_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for TinoCrisci_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Toulouse_21 Start: 13649, Stop: 13882, Start Num: 1

Candidate Starts for Toulouse_21:

(Start: 1 @13649 has 39 MA's), (Start: 2 @13676 has 2 MA's), (7, 13757), (8, 13844), (10, 13871),

Gene: TymAbreu_22 Start: 13886, Stop: 14119, Start Num: 1

Candidate Starts for TymAbreu_22:

(Start: 1 @13886 has 39 MA's), (Start: 2 @13913 has 2 MA's), (7, 13994), (8, 14081), (10, 14108),

Gene: Vinye_24 Start: 14391, Stop: 14597, Start Num: 2

Candidate Starts for Vinye_24:

(Start: 2 @14391 has 2 MA's), (8, 14562),

Gene: Ximeno_19 Start: 13076, Stop: 13294, Start Num: 1

Candidate Starts for Ximeno_19:

(Start: 1 @13076 has 39 MA's), (Start: 2 @13103 has 2 MA's), (6, 13172),

Gene: Yank_22 Start: 13854, Stop: 14087, Start Num: 1

Candidate Starts for Yank_22:

(Start: 1 @13854 has 39 MA's), (Start: 2 @13881 has 2 MA's), (7, 13962), (8, 14049), (10, 14076),