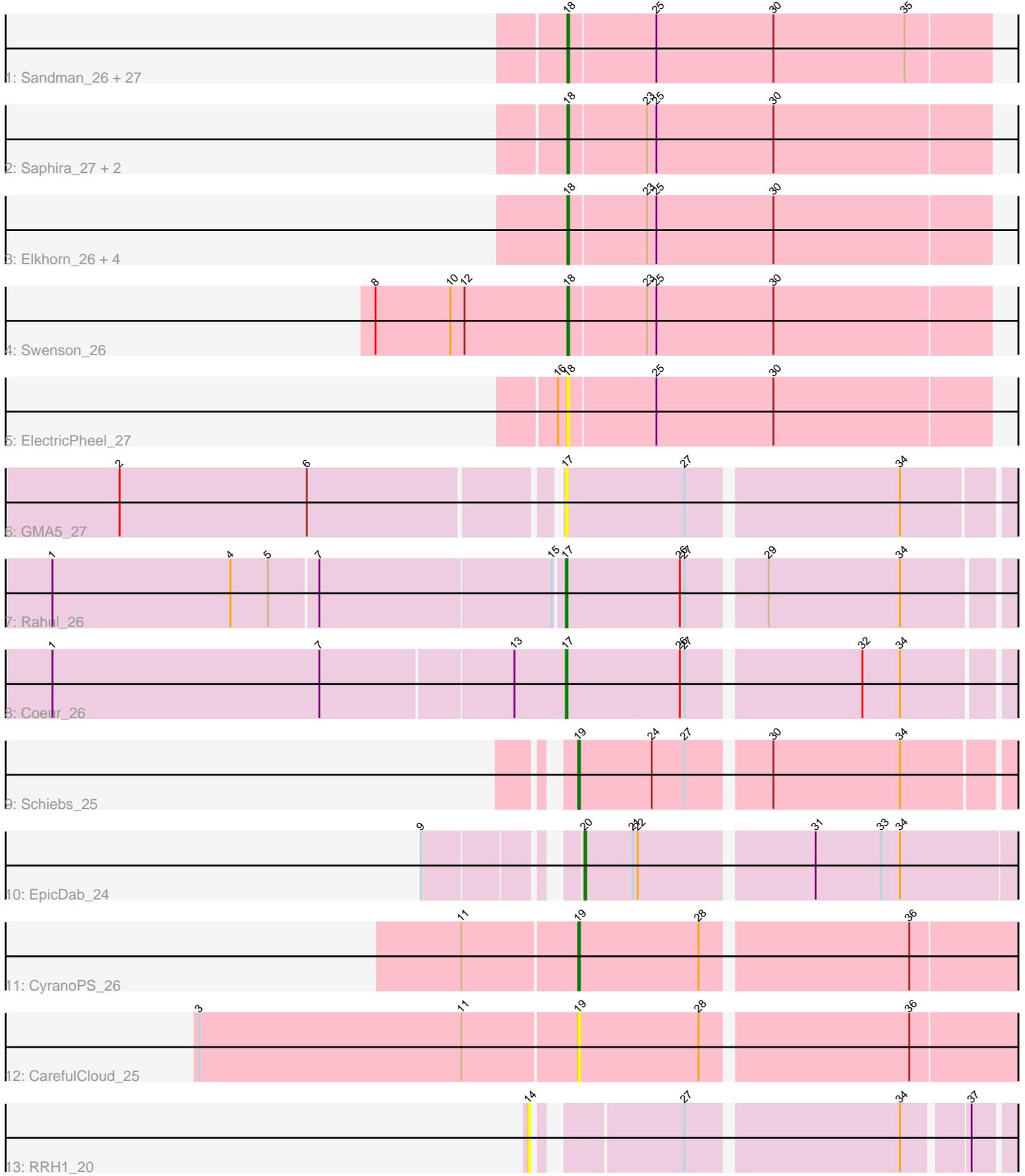


Pham 291277



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 291277 Report

This analysis was run 03/28/26 on database version 641.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 291277 has 46 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Sandman_26, Dewayne_26, CGermain_26, Ronnie_26, LouisXIV_26, Inspire2_26, Hunnie_26, Stratus_26, Muttie_26, Azathoth_26, Courtney3_26, TinoCrisci_26, Arby_26, Moloch_26, TymAbreu_26, Massimo_26, Decurro_26, Guntur_26, Maggie_26, Mariposa_26, Prospero_26, Copper_26, Chestnut_27, Yank_26, Seume_26, Link_26, Sourignavong_27, Toulouse_25
- Track 2 : Saphira_27, Taj14_26, KylieMac_27
- Track 3 : Elkhorn_26, StewieGriff_26, Blair_26, Lore_26, Laila_28
- Track 4 : Swenson_26
- Track 5 : ElectricPheel_27
- Track 6 : GMA5_27
- Track 7 : Rahul_26
- Track 8 : Coeur_26
- Track 9 : Schiebs_25
- Track 10 : EpicDab_24
- Track 11 : CyranoPS_26
- Track 12 : CarefulCloud_25
- Track 13 : RRH1_20

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

The start number called the most often in the published annotations is 18, it was called in 37 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arby_26, Azathoth_26, Blair_26, CGermain_26, Chestnut_27, Copper_26, Courtney3_26, Decurro_26, Dewayne_26, ElectricPheel_27, Elkhorn_26, Guntur_26, Hunnie_26, Inspire2_26, KylieMac_27, Laila_28, Link_26, Lore_26, LouisXIV_26, Maggie_26, Mariposa_26, Massimo_26, Moloch_26, Muttie_26, Prospero_26, Ronnie_26, Sandman_26, Saphira_27, Seume_26, Sourignavong_27, StewieGriff_26, Stratus_26, Swenson_26, Taj14_26, TinoCrisci_26, Toulouse_25,

TymAbreu_26, Yank_26,

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

-

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

- CarefulCloud_25, Coeur_26, CyranoPS_26, EpicDab_24, GMA5_27, RRH1_20, Rahul_26, Schiebs_25,

Summary by start number:

Start 14:

- Found in 1 of 46 (2.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RRH1_20 (singleton),

Start 17:

- Found in 3 of 46 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coeur_26 (CW2), GMA5_27 (CW2), Rahul_26 (CW2),

Start 18:

- Found in 38 of 46 (82.6%) of genes in pham
- Manual Annotations of this start: 37 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arby_26 (AN), Azathoth_26 (AN), Blair_26 (AN), CGermain_26 (AN), Chestnut_27 (AN), Copper_26 (AN), Courtney3_26 (AN), Decurro_26 (AN), Dewayne_26 (AN), ElectricPheel_27 (AN), Elkhorn_26 (AN), Guntur_26 (AN), Hunnie_26 (AN), Inspire2_26 (AN), KylieMac_27 (AN), Laila_28 (AN), Link_26 (AN), Lore_26 (AN), LouisXIV_26 (AN), Maggie_26 (AN), Mariposa_26 (AN), Massimo_26 (AN), Moloch_26 (AN), Muttlie_26 (AN), Prospero_26 (AN), Ronnie_26 (AN), Sandman_26 (AN), Saphira_27 (AN), Seume_26 (AN), Sourignavong_27 (AN), StewieGriff_26 (AN), Stratus_26 (AN), Swenson_26 (AN), Taj14_26 (AN), TinoCrisci_26 (AN), Toulouse_25 (AN), TymAbreu_26 (AN), Yank_26 (AN),

Start 19:

- Found in 3 of 46 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CarefulCloud_25 (ER), CyranoPS_26 (ER), Schiebs_25 (CW3),

Start 20:

- Found in 1 of 46 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EpicDab_24 (DM),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, DM, CW3, CW2, AN, ER,

Info for manual annotations of cluster AN:

- Start number 18 was manually annotated 37 times for cluster AN.

Info for manual annotations of cluster CW2:

- Start number 17 was manually annotated 2 times for cluster CW2.

Info for manual annotations of cluster CW3:

- Start number 19 was manually annotated 1 time for cluster CW3.

Info for manual annotations of cluster DM:

- Start number 20 was manually annotated 1 time for cluster DM.

Info for manual annotations of cluster ER:

- Start number 19 was manually annotated 1 time for cluster ER.

Gene Information:

Gene: Arby_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Arby_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Azathoth_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Azathoth_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Blair_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Blair_26:

(Start: 18 @15263 has 37 MA's), (23, 15311), (25, 15317), (30, 15392),

Gene: CGermain_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for CGermain_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: CarefulCloud_25 Start: 14576, Stop: 14851, Start Num: 19

Candidate Starts for CarefulCloud_25:

(3, 14336), (11, 14504), (Start: 19 @14576 has 2 MA's), (28, 14651), (36, 14777),

Gene: Chestnut_27 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Chestnut_27:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Coeur_26 Start: 15840, Stop: 16118, Start Num: 17

Candidate Starts for Coeur_26:

(1, 15516), (7, 15687), (13, 15807), (Start: 17 @15840 has 2 MA's), (26, 15912), (27, 15915), (32, 16020), (34, 16044),

Gene: Copper_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Copper_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Courtney3_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Courtney3_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: CyranoPS_26 Start: 14576, Stop: 14851, Start Num: 19

Candidate Starts for CyranoPS_26:

(11, 14504), (Start: 19 @14576 has 2 MA's), (28, 14651), (36, 14777),

Gene: Decurro_26 Start: 15231, Stop: 15497, Start Num: 18

Candidate Starts for Decurro_26:

(Start: 18 @15231 has 37 MA's), (25, 15285), (30, 15360), (35, 15444),

Gene: Dewayne_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Dewayne_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: ElectricPheel_27 Start: 15304, Stop: 15570, Start Num: 18

Candidate Starts for ElectricPheel_27:

(16, 15298), (Start: 18 @15304 has 37 MA's), (25, 15358), (30, 15433),

Gene: Elkhorn_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Elkhorn_26:

(Start: 18 @15263 has 37 MA's), (23, 15311), (25, 15317), (30, 15392),

Gene: EpicDab_24 Start: 16340, Stop: 16612, Start Num: 20

Candidate Starts for EpicDab_24:

(9, 16259), (Start: 20 @16340 has 1 MA's), (21, 16370), (22, 16373), (31, 16478), (33, 16520), (34, 16532),

Gene: GMA5_27 Start: 17062, Stop: 17340, Start Num: 17

Candidate Starts for GMA5_27:

(2, 16792), (6, 16912), (Start: 17 @17062 has 2 MA's), (27, 17137), (34, 17266),

Gene: Guntur_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Guntur_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Hunnie_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Hunnie_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Inspire2_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Inspire2_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: KylieMac_27 Start: 15247, Stop: 15513, Start Num: 18

Candidate Starts for KylieMac_27:

(Start: 18 @15247 has 37 MA's), (23, 15295), (25, 15301), (30, 15376),

Gene: Laila_28 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Laila_28:

(Start: 18 @15263 has 37 MA's), (23, 15311), (25, 15317), (30, 15392),

Gene: Link_26 Start: 15228, Stop: 15494, Start Num: 18

Candidate Starts for Link_26:

(Start: 18 @15228 has 37 MA's), (25, 15282), (30, 15357), (35, 15441),

Gene: Lore_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Lore_26:

(Start: 18 @15263 has 37 MA's), (23, 15311), (25, 15317), (30, 15392),

Gene: LouisXIV_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for LouisXIV_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Maggie_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Maggie_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Mariposa_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Mariposa_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Massimo_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Massimo_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Moloch_26 Start: 15337, Stop: 15603, Start Num: 18

Candidate Starts for Moloch_26:

(Start: 18 @15337 has 37 MA's), (25, 15391), (30, 15466), (35, 15550),

Gene: Muttie_26 Start: 15231, Stop: 15497, Start Num: 18

Candidate Starts for Muttie_26:

(Start: 18 @15231 has 37 MA's), (25, 15285), (30, 15360), (35, 15444),

Gene: Prospero_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Prospero_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: RRH1_20 Start: 13909, Stop: 14184, Start Num: 14

Candidate Starts for RRH1_20:

(14, 13909), (27, 13987), (34, 14116), (37, 14152),

Gene: Rahul_26 Start: 15845, Stop: 16123, Start Num: 17

Candidate Starts for Rahul_26:

(1, 15524), (4, 15638), (5, 15662), (7, 15692), (15, 15839), (Start: 17 @15845 has 2 MA's), (26, 15917), (27, 15920), (29, 15965), (34, 16049),

Gene: Ronnie_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for Ronnie_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Sandman_26 Start: 15337, Stop: 15603, Start Num: 18

Candidate Starts for Sandman_26:

(Start: 18 @15337 has 37 MA's), (25, 15391), (30, 15466), (35, 15550),

Gene: Saphira_27 Start: 15256, Stop: 15522, Start Num: 18

Candidate Starts for Saphira_27:

(Start: 18 @15256 has 37 MA's), (23, 15304), (25, 15310), (30, 15385),

Gene: Schiebs_25 Start: 14310, Stop: 14615, Start Num: 19

Candidate Starts for Schiebs_25:

(Start: 19 @14310 has 2 MA's), (24, 14355), (27, 14376), (30, 14424), (34, 14505),

Gene: Seume_26 Start: 15026, Stop: 15292, Start Num: 18

Candidate Starts for Seume_26:

(Start: 18 @15026 has 37 MA's), (25, 15080), (30, 15155), (35, 15239),

Gene: Sourignavong_27 Start: 15332, Stop: 15598, Start Num: 18

Candidate Starts for Sourignavong_27:

(Start: 18 @15332 has 37 MA's), (25, 15386), (30, 15461), (35, 15545),

Gene: StewieGriff_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for StewieGriff_26:

(Start: 18 @15263 has 37 MA's), (23, 15311), (25, 15317), (30, 15392),

Gene: Stratus_26 Start: 15337, Stop: 15603, Start Num: 18

Candidate Starts for Stratus_26:

(Start: 18 @15337 has 37 MA's), (25, 15391), (30, 15466), (35, 15550),

Gene: Swenson_26 Start: 15387, Stop: 15653, Start Num: 18

Candidate Starts for Swenson_26:

(8, 15264), (10, 15312), (12, 15321), (Start: 18 @15387 has 37 MA's), (23, 15435), (25, 15441), (30, 15516),

Gene: Taj14_26 Start: 15253, Stop: 15519, Start Num: 18

Candidate Starts for Taj14_26:

(Start: 18 @15253 has 37 MA's), (23, 15301), (25, 15307), (30, 15382),

Gene: TinoCrisci_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for TinoCrisci_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Toulouse_25 Start: 15026, Stop: 15292, Start Num: 18

Candidate Starts for Toulouse_25:

(Start: 18 @15026 has 37 MA's), (25, 15080), (30, 15155), (35, 15239),

Gene: TymAbreu_26 Start: 15263, Stop: 15529, Start Num: 18

Candidate Starts for TymAbreu_26:

(Start: 18 @15263 has 37 MA's), (25, 15317), (30, 15392), (35, 15476),

Gene: Yank_26 Start: 15231, Stop: 15497, Start Num: 18

Candidate Starts for Yank_26:

(Start: 18 @15231 has 37 MA's), (25, 15285), (30, 15360), (35, 15444),