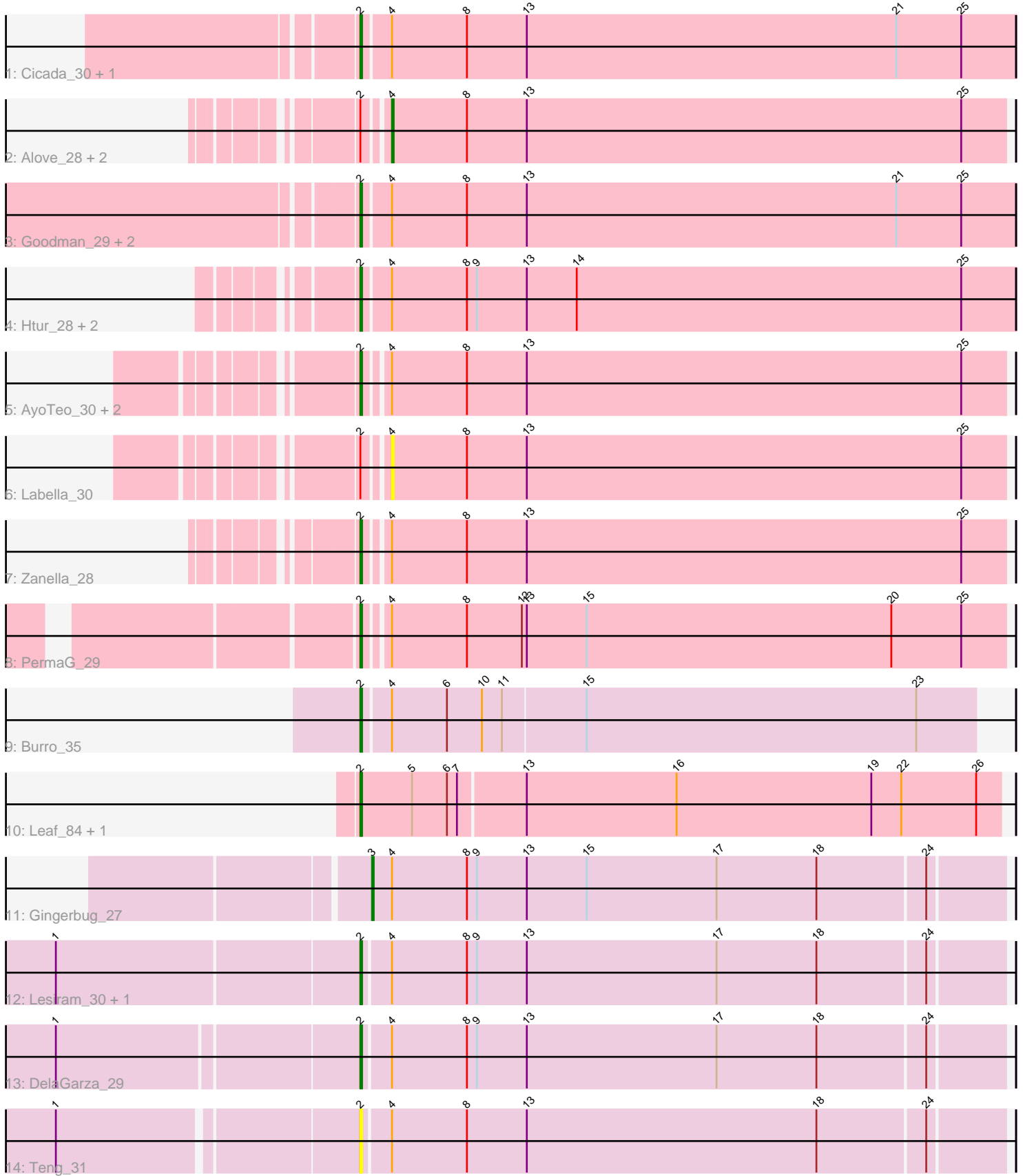


Pham 309159



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 309159 Report

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

Pham number 309159 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Cicada_30, SBlackberry_28
- Track 2 : Alove_28, Jera_29, Rootkit7_28
- Track 3 : Goodman_29, Olympi_30, Johann_29
- Track 4 : Htur_28, Rasovi_28, Linayshia_28
- Track 5 : AyoTeo_30, Typher_30, TurboVicky_28
- Track 6 : Labella_30
- Track 7 : Zanella_28
- Track 8 : PermaG_29
- Track 9 : Burro_35
- Track 10 : Leaf_84, Dewdrop_84
- Track 11 : Gingerbug_27
- Track 12 : Lesiram_30, Sweetums_31
- Track 13 : DelaGarza_29
- Track 14 : Teng_31

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

The start number called the most often in the published annotations is 2, it was called in 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AyoTeo_30, Burro_35, Cicada_30, DelaGarza_29, Dewdrop_84, Goodman_29, Htur_28, Johann_29, Leaf_84, Lesiram_30, Linayshia_28, Olympi_30, PermaG_29, Rasovi_28, SBlackberry_28, Sweetums_31, Teng_31, TurboVicky_28, Typher_30, Zanella_28,

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

- Alove_28, Jera_29, Labella_30, Rootkit7_28,

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

- Gingerbug_27,

Summary by start number:

Start 2:

- Found in 24 of 25 (96.0%) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 83.3% of time when present
- Phage (with cluster) where this start called: AyoTeo_30 (EJ), Burro_35 (EM1), Cicada_30 (EJ), DelaGarza_29 (GF), Dewdrop_84 (GC), Goodman_29 (EJ), Htur_28 (EJ), Johann_29 (EJ), Leaf_84 (GC), Lesiram_30 (GF), Linayshia_28 (EJ), Olympi_30 (EJ), PermaG_29 (EJ), Rasovi_28 (EJ), SBlackberry_28 (EJ), Sweetums_31 (GF), Teng_31 (GF), TurboVicky_28 (EJ), Typher_30 (EJ), Zanella_28 (EJ),

Start 3:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gingerbug_27 (GF),

Start 4:

- Found in 23 of 25 (92.0%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 17.4% of time when present
- Phage (with cluster) where this start called: Alove_28 (EJ), Jera_29 (EJ), Labella_30 (EJ), Rootkit7_28 (EJ),

Summary by clusters:

There are 4 clusters represented in this pham: GF, GC, EM1, EJ,

Info for manual annotations of cluster EJ:

- Start number 2 was manually annotated 13 times for cluster EJ.
- Start number 4 was manually annotated 1 time for cluster EJ.

Info for manual annotations of cluster EM1:

- Start number 2 was manually annotated 1 time for cluster EM1.

Info for manual annotations of cluster GC:

- Start number 2 was manually annotated 2 times for cluster GC.

Info for manual annotations of cluster GF:

- Start number 2 was manually annotated 3 times for cluster GF.
- Start number 3 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: Alove_28 Start: 21444, Stop: 21812, Start Num: 4

Candidate Starts for Alove_28:

(Start: 2 @21432 has 19 MA's), (Start: 4 @21444 has 1 MA's), (8, 21489), (13, 21525), (25, 21786),

Gene: AyoTeo_30 Start: 21565, Stop: 21945, Start Num: 2

Candidate Starts for AyoTeo_30:

(Start: 2 @21565 has 19 MA's), (Start: 4 @21577 has 1 MA's), (8, 21622), (13, 21658), (25, 21919),

Gene: Burro_35 Start: 41965, Stop: 42327, Start Num: 2
Candidate Starts for Burro_35:
(Start: 2 @41965 has 19 MA's), (Start: 4 @41980 has 1 MA's), (6, 42013), (10, 42034), (11, 42046),
(15, 42094), (23, 42292),

Gene: Cicada_30 Start: 21626, Stop: 22015, Start Num: 2
Candidate Starts for Cicada_30:
(Start: 2 @21626 has 19 MA's), (Start: 4 @21641 has 1 MA's), (8, 21686), (13, 21722), (21, 21944),
(25, 21983),

Gene: DelaGarza_29 Start: 20008, Stop: 20385, Start Num: 2
Candidate Starts for DelaGarza_29:
(1, 19834), (Start: 2 @20008 has 19 MA's), (Start: 4 @20023 has 1 MA's), (8, 20068), (9, 20074), (13,
20104), (17, 20218), (18, 20278), (24, 20341),

Gene: Dewdrop_84 Start: 54301, Stop: 54681, Start Num: 2
Candidate Starts for Dewdrop_84:
(Start: 2 @54301 has 19 MA's), (5, 54331), (6, 54352), (7, 54358), (13, 54397), (16, 54487), (19,
54604), (22, 54622), (26, 54667),

Gene: Gingerbug_27 Start: 20129, Stop: 20503, Start Num: 3
Candidate Starts for Gingerbug_27:
(Start: 3 @20129 has 1 MA's), (Start: 4 @20141 has 1 MA's), (8, 20186), (9, 20192), (13, 20222), (15,
20258), (17, 20336), (18, 20396), (24, 20459),

Gene: Goodman_29 Start: 21539, Stop: 21928, Start Num: 2
Candidate Starts for Goodman_29:
(Start: 2 @21539 has 19 MA's), (Start: 4 @21554 has 1 MA's), (8, 21599), (13, 21635), (21, 21857),
(25, 21896),

Gene: Htur_28 Start: 21613, Stop: 22002, Start Num: 2
Candidate Starts for Htur_28:
(Start: 2 @21613 has 19 MA's), (Start: 4 @21628 has 1 MA's), (8, 21673), (9, 21679), (13, 21709), (14,
21739), (25, 21970),

Gene: Jera_29 Start: 20691, Stop: 21059, Start Num: 4
Candidate Starts for Jera_29:
(Start: 2 @20679 has 19 MA's), (Start: 4 @20691 has 1 MA's), (8, 20736), (13, 20772), (25, 21033),

Gene: Johann_29 Start: 21539, Stop: 21928, Start Num: 2
Candidate Starts for Johann_29:
(Start: 2 @21539 has 19 MA's), (Start: 4 @21554 has 1 MA's), (8, 21599), (13, 21635), (21, 21857),
(25, 21896),

Gene: Labella_30 Start: 21576, Stop: 21944, Start Num: 4
Candidate Starts for Labella_30:
(Start: 2 @21564 has 19 MA's), (Start: 4 @21576 has 1 MA's), (8, 21621), (13, 21657), (25, 21918),

Gene: Leaf_84 Start: 54301, Stop: 54681, Start Num: 2
Candidate Starts for Leaf_84:
(Start: 2 @54301 has 19 MA's), (5, 54331), (6, 54352), (7, 54358), (13, 54397), (16, 54487), (19,
54604), (22, 54622), (26, 54667),

Gene: Lesiram_30 Start: 19980, Stop: 20357, Start Num: 2

Candidate Starts for Lesiram_30:

(1, 19803), (Start: 2 @19980 has 19 MA's), (Start: 4 @19995 has 1 MA's), (8, 20040), (9, 20046), (13, 20076), (17, 20190), (18, 20250), (24, 20313),

Gene: Linayshia_28 Start: 21605, Stop: 21994, Start Num: 2

Candidate Starts for Linayshia_28:

(Start: 2 @21605 has 19 MA's), (Start: 4 @21620 has 1 MA's), (8, 21665), (9, 21671), (13, 21701), (14, 21731), (25, 21962),

Gene: Olympi_30 Start: 21526, Stop: 21915, Start Num: 2

Candidate Starts for Olympi_30:

(Start: 2 @21526 has 19 MA's), (Start: 4 @21541 has 1 MA's), (8, 21586), (13, 21622), (21, 21844), (25, 21883),

Gene: PermaG_29 Start: 21583, Stop: 21963, Start Num: 2

Candidate Starts for PermaG_29:

(Start: 2 @21583 has 19 MA's), (Start: 4 @21595 has 1 MA's), (8, 21640), (12, 21673), (13, 21676), (15, 21712), (20, 21895), (25, 21937),

Gene: Rasovi_28 Start: 21613, Stop: 22002, Start Num: 2

Candidate Starts for Rasovi_28:

(Start: 2 @21613 has 19 MA's), (Start: 4 @21628 has 1 MA's), (8, 21673), (9, 21679), (13, 21709), (14, 21739), (25, 21970),

Gene: Rootkit7_28 Start: 21444, Stop: 21812, Start Num: 4

Candidate Starts for Rootkit7_28:

(Start: 2 @21432 has 19 MA's), (Start: 4 @21444 has 1 MA's), (8, 21489), (13, 21525), (25, 21786),

Gene: SBlackberry_28 Start: 21404, Stop: 21793, Start Num: 2

Candidate Starts for SBlackberry_28:

(Start: 2 @21404 has 19 MA's), (Start: 4 @21419 has 1 MA's), (8, 21464), (13, 21500), (21, 21722), (25, 21761),

Gene: Sweetums_31 Start: 20092, Stop: 20469, Start Num: 2

Candidate Starts for Sweetums_31:

(1, 19915), (Start: 2 @20092 has 19 MA's), (Start: 4 @20107 has 1 MA's), (8, 20152), (9, 20158), (13, 20188), (17, 20302), (18, 20362), (24, 20425),

Gene: Teng_31 Start: 20024, Stop: 20401, Start Num: 2

Candidate Starts for Teng_31:

(1, 19853), (Start: 2 @20024 has 19 MA's), (Start: 4 @20039 has 1 MA's), (8, 20084), (13, 20120), (18, 20294), (24, 20357),

Gene: TurboVicky_28 Start: 21435, Stop: 21815, Start Num: 2

Candidate Starts for TurboVicky_28:

(Start: 2 @21435 has 19 MA's), (Start: 4 @21447 has 1 MA's), (8, 21492), (13, 21528), (25, 21789),

Gene: Typher_30 Start: 21564, Stop: 21944, Start Num: 2

Candidate Starts for Typher_30:

(Start: 2 @21564 has 19 MA's), (Start: 4 @21576 has 1 MA's), (8, 21621), (13, 21657), (25, 21918),

Gene: Zanella_28 Start: 21434, Stop: 21814, Start Num: 2

Candidate Starts for Zanella_28:

(Start: 2 @21434 has 19 MA's), (Start: 4 @21446 has 1 MA's), (8, 21491), (13, 21527), (25, 21788),