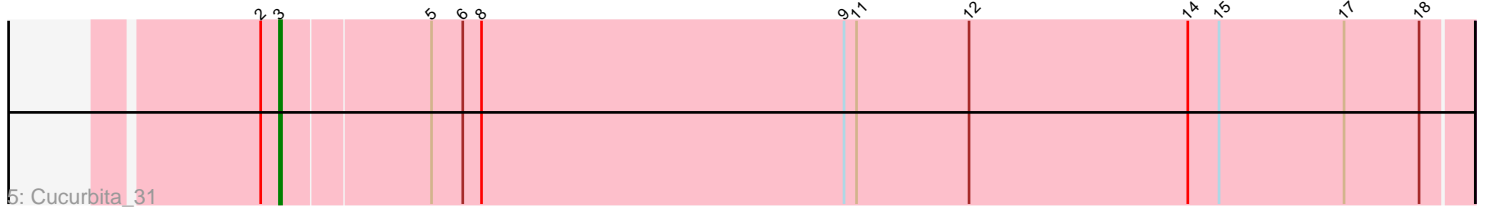
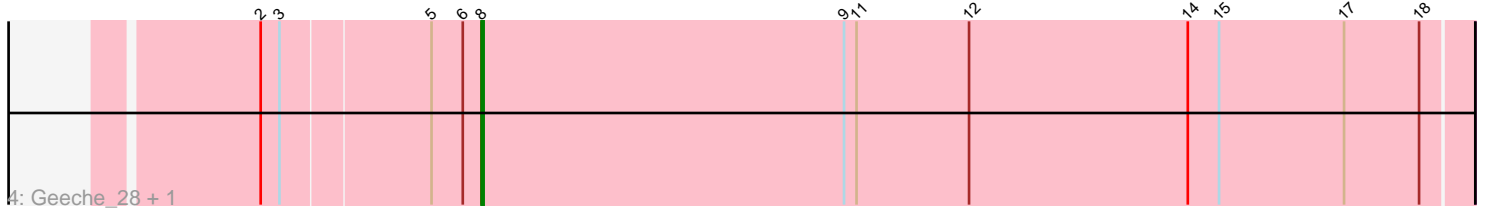
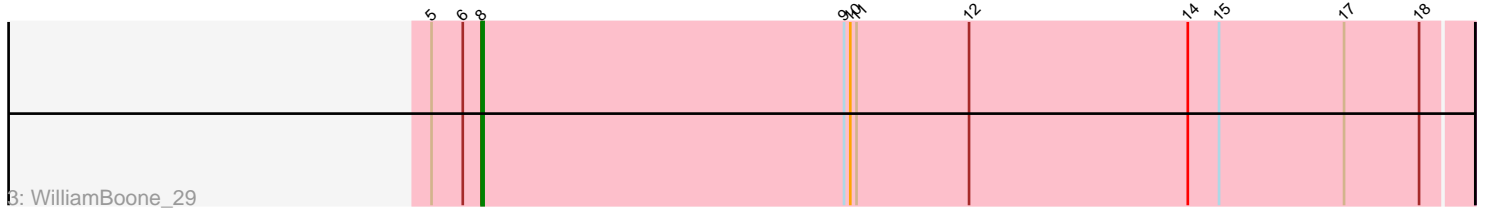
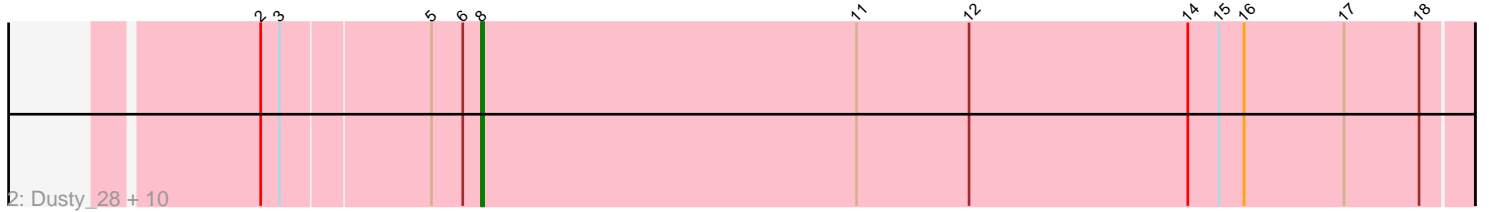
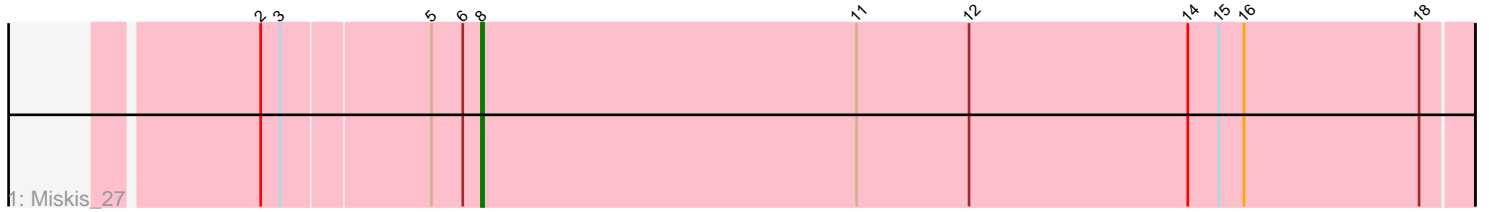


Pham 295154



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 295154 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295154 has 18 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Miskis_27
- Track 2 : Dusty_28, Toniann_29, Abscondus_28, Lozinak_29, Bachita_31, Aphelion_29, PhinkBoden_29, ClubL_29, Smoothie_30, Culver_29, Engineer_30
- Track 3 : WilliamBoone_29
- Track 4 : Geeche_28, Norvs_30
- Track 5 : Cucurbita_31
- Track 6 : BrutonGaster_17
- Track 7 : OneUp_23

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

The start number called the most often in the published annotations is 8, it was called in 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_28, Aphelion_29, Bachita_31, ClubL_29, Culver_29, Dusty_28, Engineer_30, Geeche_28, Lozinak_29, Miskis_27, Norvs_30, OneUp_23, PhinkBoden_29, Smoothie_30, Toniann_29, WilliamBoone_29,

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

- BrutonGaster_17, Cucurbita_31,

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

-

Summary by start number:

Start 1:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_17 (CQ2),

Start 3:

- Found in 15 of 18 (83.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Cucurbita_31 (CQ1),

Start 8:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 17
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Abscondus_28 (CQ1), Aphelion_29 (CQ1), Bachita_31 (CQ1), ClubL_29 (CQ1), Culver_29 (CQ1), Dusty_28 (CQ1), Engineer_30 (CQ1), Geeche_28 (CQ1), Lozinak_29 (CQ1), Miskis_27 (CQ1), Norvs_30 (CQ1), OneUp_23 (CQ2), PhinkBoden_29 (CQ1), Smoothie_30 (CQ1), Toniann_29 (CQ1), WilliamBoone_29 (CQ1),

Summary by clusters:

There are 2 clusters represented in this pham: CQ2, CQ1,

Info for manual annotations of cluster CQ1:

- Start number 3 was manually annotated 1 time for cluster CQ1.
- Start number 8 was manually annotated 14 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 1 was manually annotated 1 time for cluster CQ2.
- Start number 8 was manually annotated 1 time for cluster CQ2.

Gene Information:

Gene: Abscondus_28 Start: 7960, Stop: 8433, Start Num: 8

Candidate Starts for Abscondus_28:

(2, 7858), (Start: 3 @7867 has 1 MA's), (5, 7936), (6, 7951), (Start: 8 @7960 has 15 MA's), (11, 8140), (12, 8194), (14, 8299), (15, 8314), (16, 8326), (17, 8374), (18, 8410),

Gene: Aphelion_29 Start: 8207, Stop: 8680, Start Num: 8

Candidate Starts for Aphelion_29:

(2, 8105), (Start: 3 @8114 has 1 MA's), (5, 8183), (6, 8198), (Start: 8 @8207 has 15 MA's), (11, 8387), (12, 8441), (14, 8546), (15, 8561), (16, 8573), (17, 8621), (18, 8657),

Gene: Bachita_31 Start: 8640, Stop: 9113, Start Num: 8

Candidate Starts for Bachita_31:

(2, 8538), (Start: 3 @8547 has 1 MA's), (5, 8616), (6, 8631), (Start: 8 @8640 has 15 MA's), (11, 8820), (12, 8874), (14, 8979), (15, 8994), (16, 9006), (17, 9054), (18, 9090),

Gene: BrutonGaster_17 Start: 4717, Stop: 5409, Start Num: 1

Candidate Starts for BrutonGaster_17:

(Start: 1 @4717 has 1 MA's), (4, 4894), (7, 4930), (Start: 8 @4933 has 15 MA's), (11, 5113), (12, 5167), (13, 5230), (14, 5272), (15, 5287), (18, 5383),

Gene: ClubL_29 Start: 8141, Stop: 8614, Start Num: 8

Candidate Starts for ClubL_29:

(2, 8039), (Start: 3 @8048 has 1 MA's), (5, 8117), (6, 8132), (Start: 8 @8141 has 15 MA's), (11, 8321), (12, 8375), (14, 8480), (15, 8495), (16, 8507), (17, 8555), (18, 8591),

Gene: Cucurbita_31 Start: 9406, Stop: 9972, Start Num: 3

Candidate Starts for Cucurbita_31:

(2, 9397), (Start: 3 @9406 has 1 MA's), (5, 9475), (6, 9490), (Start: 8 @9499 has 15 MA's), (9, 9673), (11, 9679), (12, 9733), (14, 9838), (15, 9853), (17, 9913), (18, 9949),

Gene: Culver_29 Start: 7960, Stop: 8433, Start Num: 8

Candidate Starts for Culver_29:

(2, 7858), (Start: 3 @7867 has 1 MA's), (5, 7936), (6, 7951), (Start: 8 @7960 has 15 MA's), (11, 8140), (12, 8194), (14, 8299), (15, 8314), (16, 8326), (17, 8374), (18, 8410),

Gene: Dusty_28 Start: 7960, Stop: 8433, Start Num: 8

Candidate Starts for Dusty_28:

(2, 7858), (Start: 3 @7867 has 1 MA's), (5, 7936), (6, 7951), (Start: 8 @7960 has 15 MA's), (11, 8140), (12, 8194), (14, 8299), (15, 8314), (16, 8326), (17, 8374), (18, 8410),

Gene: Engineer_30 Start: 8155, Stop: 8628, Start Num: 8

Candidate Starts for Engineer_30:

(2, 8053), (Start: 3 @8062 has 1 MA's), (5, 8131), (6, 8146), (Start: 8 @8155 has 15 MA's), (11, 8335), (12, 8389), (14, 8494), (15, 8509), (16, 8521), (17, 8569), (18, 8605),

Gene: Geeche_28 Start: 8029, Stop: 8502, Start Num: 8

Candidate Starts for Geeche_28:

(2, 7927), (Start: 3 @7936 has 1 MA's), (5, 8005), (6, 8020), (Start: 8 @8029 has 15 MA's), (9, 8203), (11, 8209), (12, 8263), (14, 8368), (15, 8383), (17, 8443), (18, 8479),

Gene: Lozinak_29 Start: 8210, Stop: 8683, Start Num: 8

Candidate Starts for Lozinak_29:

(2, 8108), (Start: 3 @8117 has 1 MA's), (5, 8186), (6, 8201), (Start: 8 @8210 has 15 MA's), (11, 8390), (12, 8444), (14, 8549), (15, 8564), (16, 8576), (17, 8624), (18, 8660),

Gene: Miskis_27 Start: 7985, Stop: 8458, Start Num: 8

Candidate Starts for Miskis_27:

(2, 7883), (Start: 3 @7892 has 1 MA's), (5, 7961), (6, 7976), (Start: 8 @7985 has 15 MA's), (11, 8165), (12, 8219), (14, 8324), (15, 8339), (16, 8351), (18, 8435),

Gene: Norvs_30 Start: 8212, Stop: 8685, Start Num: 8

Candidate Starts for Norvs_30:

(2, 8110), (Start: 3 @8119 has 1 MA's), (5, 8188), (6, 8203), (Start: 8 @8212 has 15 MA's), (9, 8386), (11, 8392), (12, 8446), (14, 8551), (15, 8566), (17, 8626), (18, 8662),

Gene: OneUp_23 Start: 6025, Stop: 6501, Start Num: 8

Candidate Starts for OneUp_23:

(Start: 1 @5809 has 1 MA's), (4, 5986), (7, 6022), (Start: 8 @6025 has 15 MA's), (11, 6205), (12, 6259), (13, 6322), (14, 6364), (15, 6379), (18, 6475),

Gene: PhinkBoden_29 Start: 8593, Stop: 9066, Start Num: 8

Candidate Starts for PhinkBoden_29:

(2, 8491), (Start: 3 @8500 has 1 MA's), (5, 8569), (6, 8584), (Start: 8 @8593 has 15 MA's), (11, 8773), (12, 8827), (14, 8932), (15, 8947), (16, 8959), (17, 9007), (18, 9043),

Gene: Smoothie_30 Start: 8210, Stop: 8683, Start Num: 8

Candidate Starts for Smoothie_30:

(2, 8108), (Start: 3 @8117 has 1 MA's), (5, 8186), (6, 8201), (Start: 8 @8210 has 15 MA's), (11, 8390), (12, 8444), (14, 8549), (15, 8564), (16, 8576), (17, 8624), (18, 8660),

Gene: Toniann_29 Start: 8155, Stop: 8628, Start Num: 8

Candidate Starts for Toniann_29:

(2, 8053), (Start: 3 @8062 has 1 MA's), (5, 8131), (6, 8146), (Start: 8 @8155 has 15 MA's), (11, 8335), (12, 8389), (14, 8494), (15, 8509), (16, 8521), (17, 8569), (18, 8605),

Gene: WilliamBoone_29 Start: 7554, Stop: 8027, Start Num: 8

Candidate Starts for WilliamBoone_29:

(5, 7530), (6, 7545), (Start: 8 @7554 has 15 MA's), (9, 7728), (10, 7731), (11, 7734), (12, 7788), (14, 7893), (15, 7908), (17, 7968), (18, 8004),