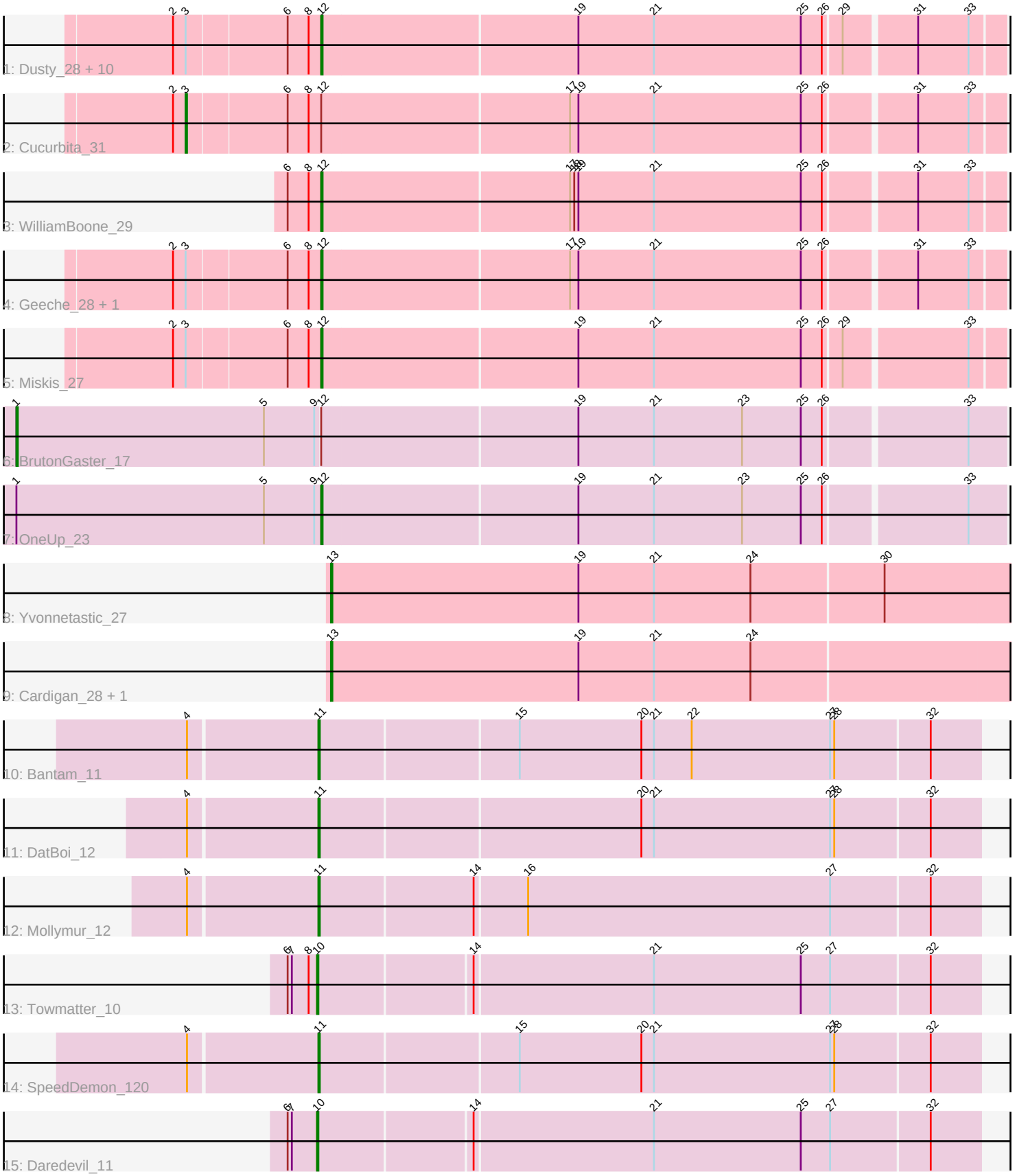
Pham 347949


1: Dusty_28 + 10
2: Cucurbita_31
3: WilliamBoone_29
4: Geeche_28 + 1
5: Miskis_27
6: BrutonGaster_17
7: OneUp_23
8: Yvonnetastic_27
9: Cardigan_28 + 1
10: Bantam_11
11: DatBoi_12
12: Mollymur_12
13: Towmatter_10
14: SpeedDemon_120
15: Daredevil_11

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 347949 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347949 has 27 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Dusty_28, Smoothie_30, Culver_29, Lozinak_29, PhinkBoden_29, Engineer_30, Abscondus_28, ClubL_29, Toniann_29, Bachita_31, Aphelion_29
• Track 2 : Cucurbita_31
• Track 3 : WilliamBoone_29
• Track 4 : Geeche_28, Norvs_30
• Track 5 : Miskis_27
• Track 6 : BrutonGaster_17
• Track 7 : OneUp_23
• Track 8 : Yvonnetastic_27
• Track 9 : Cardigan_28, JonJames_29
• Track 10 : Bantam_11
• Track 11 : DatBoi_12
• Track 12 : Mollymur_12
• Track 13 : Towmatter_10
• Track 14 : SpeedDemon_120
• Track 15 : Daredevil_11

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

The start number called the most often in the published annotations is 12, it was called in 15 of the 26 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:
• Bantam_11, Cardigan_28, Daredevil_11, DatBoi_12, JonJames_29, Mollymur_12, SpeedDemon_120, Towmatter_10, Yvonnetastic_27,

Summary by start number:

Start 1:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_17 (CQ2),

Start 3:
• Found in 15 of 27 (55.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Cucurbita_31 (CQ1),

Start 10:
• Found in 2 of 27 (7.4%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daredevil_11 (DL), Towmatter_10 (DL),

Start 11:
• Found in 4 of 27 (14.8%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_11 (DL), DatBoi_12 (DL), Mollymur_12 (DL), SpeedDemon_120 (DL),

Start 12:
• Found in 18 of 27 (66.7%) of genes in pham
• Manual Annotations of this start: 15 of 26
• 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),

Start 13:
• Found in 3 of 27 (11.1%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cardigan_28 (DD), JonJames_29 (DD), Yvonnetastic_27 (DD),

Summary by clusters:

There are 4 clusters represented in this pham: CQ2, DD, CQ1, DL,

Info for manual annotations of cluster CQ1:
•Start number 3 was manually annotated 1 time for cluster CQ1.
•Start number 12 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 12 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster DD:
•Start number 13 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 10 was manually annotated 2 times for cluster DL.
•Start number 11 was manually annotated 4 times for cluster DL.

Gene Information:

Gene: Abscondus_28 Start: 7960, Stop: 8433, Start Num: 12
Candidate Starts for Abscondus_28:
(2, 7858), (Start: 3 @7867 has 1 MA's), (6, 7936), (8, 7951), (Start: 12 @7960 has 15 MA's), (19, 8140), (21, 8194), (25, 8299), (26, 8314), (29, 8326), (31, 8374), (33, 8410),

Gene: Aphelion_29 Start: 8207, Stop: 8680, Start Num: 12
Candidate Starts for Aphelion_29:
(2, 8105), (Start: 3 @8114 has 1 MA's), (6, 8183), (8, 8198), (Start: 12 @8207 has 15 MA's), (19, 8387), (21, 8441), (25, 8546), (26, 8561), (29, 8573), (31, 8621), (33, 8657),

Gene: Bachita_31 Start: 8640, Stop: 9113, Start Num: 12
Candidate Starts for Bachita_31:
(2, 8538), (Start: 3 @8547 has 1 MA's), (6, 8616), (8, 8631), (Start: 12 @8640 has 15 MA's), (19, 8820), (21, 8874), (25, 8979), (26, 8994), (29, 9006), (31, 9054), (33, 9090),

Gene: Bantam_11 Start: 5625, Stop: 6089, Start Num: 11
Candidate Starts for Bantam_11:
(4, 5535), (Start: 11 @5625 has 4 MA's), (15, 5763), (20, 5850), (21, 5859), (22, 5886), (27, 5985), (28, 5988), (32, 6054),

Gene: BrutonGaster_17 Start: 4717, Stop: 5409, Start Num: 1
Candidate Starts for BrutonGaster_17:
(Start: 1 @4717 has 1 MA's), (5, 4894), (9, 4930), (Start: 12 @4933 has 15 MA's), (19, 5113), (21, 5167), (23, 5230), (25, 5272), (26, 5287), (33, 5383),

Gene: Cardigan_28 Start: 10212, Stop: 10694, Start Num: 13
Candidate Starts for Cardigan_28:
(Start: 13 @10212 has 3 MA's), (19, 10389), (21, 10443), (24, 10512),

Gene: ClubL_29 Start: 8141, Stop: 8614, Start Num: 12
Candidate Starts for ClubL_29:
(2, 8039), (Start: 3 @8048 has 1 MA's), (6, 8117), (8, 8132), (Start: 12 @8141 has 15 MA's), (19, 8321), (21, 8375), (25, 8480), (26, 8495), (29, 8507), (31, 8555), (33, 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), (6, 9475), (8, 9490), (Start: 12 @9499 has 15 MA's), (17, 9673), (19, 9679), (21, 9733), (25, 9838), (26, 9853), (31, 9913), (33, 9949),

Gene: Culver_29 Start: 7960, Stop: 8433, Start Num: 12
Candidate Starts for Culver_29:
(2, 7858), (Start: 3 @7867 has 1 MA's), (6, 7936), (8, 7951), (Start: 12 @7960 has 15 MA's), (19, 8140), (21, 8194), (25, 8299), (26, 8314), (29, 8326), (31, 8374), (33, 8410),

Gene: Daredevil_11 Start: 4538, Stop: 4999, Start Num: 10
Candidate Starts for Daredevil_11:
(6, 4517), (7, 4520), (Start: 10 @4538 has 2 MA's), (14, 4643), (21, 4769), (25, 4874), (27, 4895), (32, 4964),

Gene: DatBoi_12 Start: 6450, Stop: 6914, Start Num: 11
Candidate Starts for DatBoi_12:
(4, 6360), (Start: 11 @6450 has 4 MA's), (20, 6675), (21, 6684), (27, 6810), (28, 6813), (32, 6879),

Gene: Dusty_28 Start: 7960, Stop: 8433, Start Num: 12
Candidate Starts for Dusty_28:
(2, 7858), (Start: 3 @7867 has 1 MA's), (6, 7936), (8, 7951), (Start: 12 @7960 has 15 MA's), (19, 8140), (21, 8194), (25, 8299), (26, 8314), (29, 8326), (31, 8374), (33, 8410),

Gene: Engineer_30 Start: 8155, Stop: 8628, Start Num: 12
Candidate Starts for Engineer_30:
(2, 8053), (Start: 3 @8062 has 1 MA's), (6, 8131), (8, 8146), (Start: 12 @8155 has 15 MA's), (19, 8335), (21, 8389), (25, 8494), (26, 8509), (29, 8521), (31, 8569), (33, 8605),

Gene: Geeche_28 Start: 8029, Stop: 8502, Start Num: 12
Candidate Starts for Geeche_28:
(2, 7927), (Start: 3 @7936 has 1 MA's), (6, 8005), (8, 8020), (Start: 12 @8029 has 15 MA's), (17, 8203), (19, 8209), (21, 8263), (25, 8368), (26, 8383), (31, 8443), (33, 8479),

Gene: JonJames_29 Start: 11407, Stop: 11889, Start Num: 13
Candidate Starts for JonJames_29:
(Start: 13 @11407 has 3 MA's), (19, 11584), (21, 11638), (24, 11707),

Gene: Lozinak_29 Start: 8210, Stop: 8683, Start Num: 12
Candidate Starts for Lozinak_29:
(2, 8108), (Start: 3 @8117 has 1 MA's), (6, 8186), (8, 8201), (Start: 12 @8210 has 15 MA's), (19, 8390), (21, 8444), (25, 8549), (26, 8564), (29, 8576), (31, 8624), (33, 8660),

Gene: Miskis_27 Start: 7985, Stop: 8458, Start Num: 12
Candidate Starts for Miskis_27:
(2, 7883), (Start: 3 @7892 has 1 MA's), (6, 7961), (8, 7976), (Start: 12 @7985 has 15 MA's), (19, 8165), (21, 8219), (25, 8324), (26, 8339), (29, 8351), (33, 8435),

Gene: Mollymur_12 Start: 6532, Stop: 6996, Start Num: 11
Candidate Starts for Mollymur_12:
(4, 6442), (Start: 11 @6532 has 4 MA's), (14, 6640), (16, 6676), (27, 6892), (32, 6961),

Gene: Norvs_30 Start: 8212, Stop: 8685, Start Num: 12
Candidate Starts for Norvs_30:
(2, 8110), (Start: 3 @8119 has 1 MA's), (6, 8188), (8, 8203), (Start: 12 @8212 has 15 MA's), (17, 8386), (19, 8392), (21, 8446), (25, 8551), (26, 8566), (31, 8626), (33, 8662),

Gene: OneUp_23 Start: 6025, Stop: 6501, Start Num: 12

Candidate Starts for OneUp_23:
(Start: 1 @5809 has 1 MA's), (5, 5986), (9, 6022), (Start: 12 @6025 has 15 MA's), (19, 6205), (21, 6259), (23, 6322), (25, 6364), (26, 6379), (33, 6475),

Gene: PhinkBoden_29 Start: 8593, Stop: 9066, Start Num: 12
Candidate Starts for PhinkBoden_29:
(2, 8491), (Start: 3 @8500 has 1 MA's), (6, 8569), (8, 8584), (Start: 12 @8593 has 15 MA's), (19, 8773), (21, 8827), (25, 8932), (26, 8947), (29, 8959), (31, 9007), (33, 9043),

Gene: Smoothie_30 Start: 8210, Stop: 8683, Start Num: 12
Candidate Starts for Smoothie_30:
(2, 8108), (Start: 3 @8117 has 1 MA's), (6, 8186), (8, 8201), (Start: 12 @8210 has 15 MA's), (19, 8390), (21, 8444), (25, 8549), (26, 8564), (29, 8576), (31, 8624), (33, 8660),

Gene: SpeedDemon_120 Start: 5931, Stop: 6395, Start Num: 11
Candidate Starts for SpeedDemon_120:
(4, 5841), (Start: 11 @5931 has 4 MA's), (15, 6069), (20, 6156), (21, 6165), (27, 6291), (28, 6294), (32, 6360),

Gene: Toniann_29 Start: 8155, Stop: 8628, Start Num: 12
Candidate Starts for Toniann_29:
(2, 8053), (Start: 3 @8062 has 1 MA's), (6, 8131), (8, 8146), (Start: 12 @8155 has 15 MA's), (19, 8335), (21, 8389), (25, 8494), (26, 8509), (29, 8521), (31, 8569), (33, 8605),

Gene: Towmatter_10 Start: 4360, Stop: 4821, Start Num: 10
Candidate Starts for Towmatter_10:
(6, 4339), (7, 4342), (8, 4354), (Start: 10 @4360 has 2 MA's), (14, 4465), (21, 4591), (25, 4696), (27, 4717), (32, 4786),

Gene: WilliamBoone_29 Start: 7554, Stop: 8027, Start Num: 12
Candidate Starts for WilliamBoone_29:
(6, 7530), (8, 7545), (Start: 12 @7554 has 15 MA's), (17, 7728), (18, 7731), (19, 7734), (21, 7788), (25, 7893), (26, 7908), (31, 7968), (33, 8004),

Gene: Yvonnetastic_27 Start: 9976, Stop: 10458, Start Num: 13
Candidate Starts for Yvonnetastic_27:
(Start: 13 @9976 has 3 MA's), (19, 10153), (21, 10207), (24, 10276), (30, 10369),