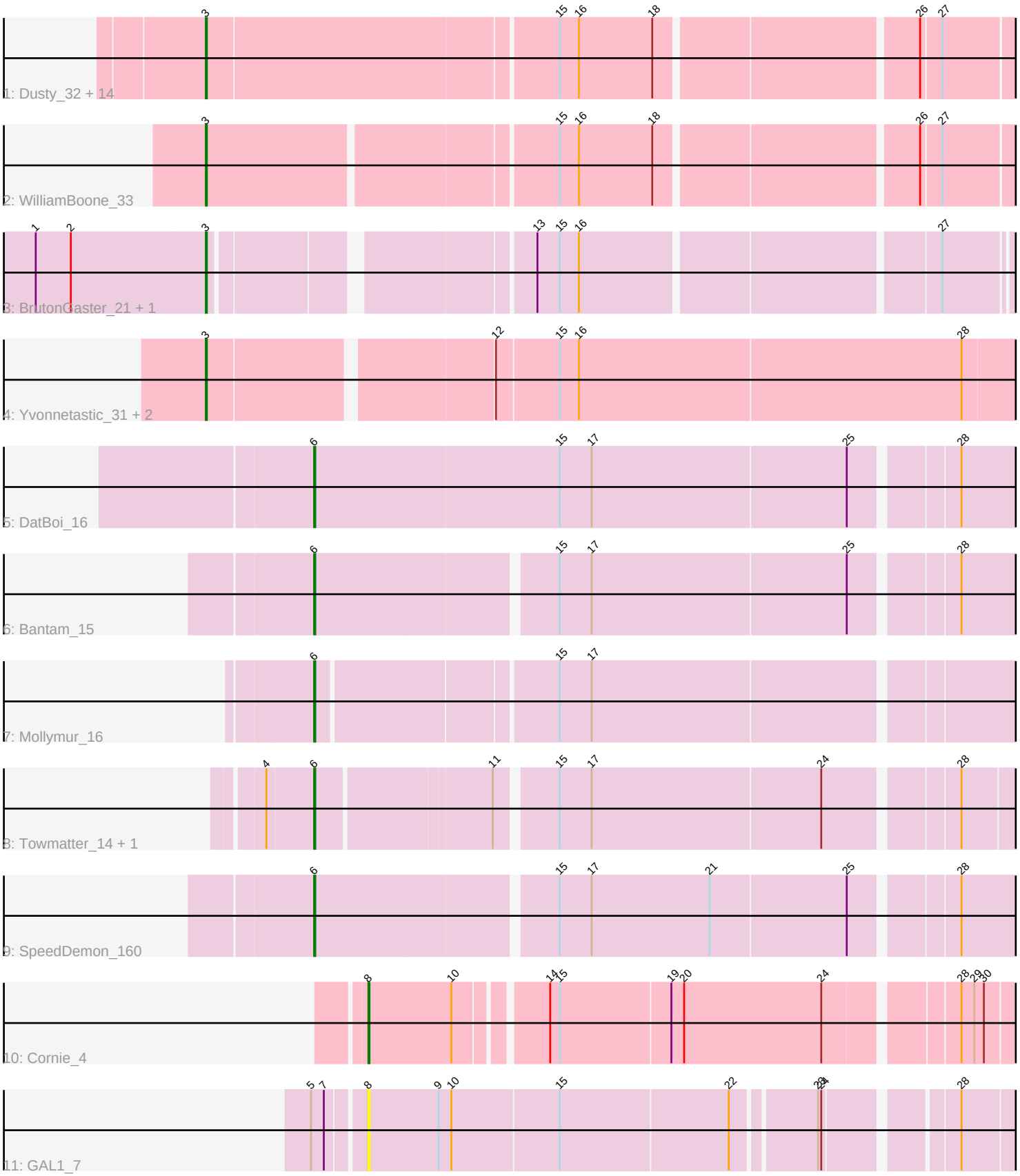
Pham 342443


3
15
16
18
26
27
1: Dusty_32 + 14
3
15
16
18
26
27
2: WilliamBoone_33
1
2
3
13
15
16
27
3: BrutonGaster_21 + 1
3
12
15
16
28
4: Yvonnetastic_31 + 2
6
15
17
25
28
5: DatBoi_16
6
15
17
25
28
6: Bantam_15
6
15
17
7: Mollymur_16
4
6
11
15
17
24
28
8: Towmatter_14 + 1
6
15
17
21
25
28
9: SpeedDemon_160
8
10
14
15
19
20
24
28
29
30
10: Cornie_4
5
7
8
9
10
15
22
23
24
28
11: GAL1_7

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 342443 Report

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

Pham number 342443 has 29 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Dusty_32, Smoothie_34, Lozinak_33, Culver_33, PhinkBoden_33, Miskis_31, Cucurbita_35, Engineer_34, Abscondus_32, ClubL_33, Toniann_33, Bachita_35, Aphelion_33, Norvs_34, Geeche_32
• Track 2 : WilliamBoone_33
• Track 3 : BrutonGaster_21, OneUp_27
• Track 4 : Yvonnetastic_31, Cardigan_32, JonJames_33
• Track 5 : DatBoi_16
• Track 6 : Bantam_15
• Track 7 : Mollymur_16
• Track 8 : Towmatter_14, Daredevil_15
• Track 9 : SpeedDemon_160
• Track 10 : Cornie_4
• Track 11 : GAL1_7

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

The start number called the most often in the published annotations is 3, it was called in 20 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_32, Aphelion_33, Bachita_35, BrutonGaster_21, Cardigan_32, ClubL_33, Cucurbita_35, Culver_33, Dusty_32, Engineer_34, Geeche_32, JonJames_33, Lozinak_33, Miskis_31, Norvs_34, OneUp_27, PhinkBoden_33, Smoothie_34, Toniann_33, WilliamBoone_33, Yvonnetastic_31,

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

Genes that do not have the "Most Annotated" start:
• Bantam_15, Cornie_4, Daredevil_15, DatBoi_16, GAL1_7, Mollymur_16, SpeedDemon_160, Towmatter_14,

Summary by start number:

Start 3:
• Found in 21 of 29 (72.4%) of genes in pham
• Manual Annotations of this start: 20 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abscondus_32 (CQ1), Aphelion_33 (CQ1), Bachita_35 (CQ1), BrutonGaster_21 (CQ2), Cardigan_32 (DD), ClubL_33 (CQ1), Cucurbita_35 (CQ1), Culver_33 (CQ1), Dusty_32 (CQ1), Engineer_34 (CQ1), Geeche_32 (CQ1), JonJames_33 (DD), Lozinak_33 (CQ1), Miskis_31 (CQ1), Norvs_34 (CQ1), OneUp_27 (CQ2), PhinkBoden_33 (CQ1), Smoothie_34 (CQ1), Toniann_33 (CQ1), WilliamBoone_33 (CQ1), Yvonnetastic_31 (DD),

Start 6:
• Found in 6 of 29 (20.7%) of genes in pham
• Manual Annotations of this start: 6 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_15 (DL), Daredevil_15 (DL), DatBoi_16 (DL), Mollymur_16 (DL), SpeedDemon_160 (DL), Towmatter_14 (DL),

Start 8:
• Found in 2 of 29 (6.9%) of genes in pham
• Manual Annotations of this start: 1 of 27
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cornie_4 (F5), GAL1_7 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, F5, DD, DL, CQ2, CQ1,

Info for manual annotations of cluster CQ1:
•Start number 3 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 3 was manually annotated 2 times for cluster CQ2.

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

Info for manual annotations of cluster DL:
•Start number 6 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster F5:
•Start number 8 was manually annotated 1 time for cluster F5.

Gene Information:

Gene: Abscondus_32 Start: 12787, Stop: 13629, Start Num: 3
Candidate Starts for Abscondus_32:
(Start: 3 @12787 has 20 MA's), (15, 13105), (16, 13123), (18, 13192), (26, 13423), (27, 13441),

Gene: Aphelion_33 Start: 13034, Stop: 13876, Start Num: 3
Candidate Starts for Aphelion_33:

(Start: 3 @13034 has 20 MA's), (15, 13352), (16, 13370), (18, 13439), (26, 13670), (27, 13688),

Gene: Bachita_35 Start: 13467, Stop: 14309, Start Num: 3
Candidate Starts for Bachita_35:
(Start: 3 @13467 has 20 MA's), (15, 13785), (16, 13803), (18, 13872), (26, 14103), (27, 14121),

Gene: Bantam_15 Start: 10395, Stop: 11135, Start Num: 6
Candidate Starts for Bantam_15:
(Start: 6 @10395 has 6 MA's), (15, 10611), (17, 10641), (25, 10878), (28, 10968),

Gene: BrutonGaster_21 Start: 9761, Stop: 10567, Start Num: 3
Candidate Starts for BrutonGaster_21:
(1, 9602), (2, 9635), (Start: 3 @9761 has 20 MA's), (13, 10031), (15, 10052), (16, 10070), (27, 10388),

Gene: Cardigan_32 Start: 14968, Stop: 15837, Start Num: 3
Candidate Starts for Cardigan_32:
(Start: 3 @14968 has 20 MA's), (12, 15217), (15, 15274), (16, 15292), (28, 15649),

Gene: ClubL_33 Start: 12968, Stop: 13810, Start Num: 3
Candidate Starts for ClubL_33:
(Start: 3 @12968 has 20 MA's), (15, 13286), (16, 13304), (18, 13373), (26, 13604), (27, 13622),

Gene: Cornie_4 Start: 3792, Stop: 4448, Start Num: 8
Candidate Starts for Cornie_4:
(Start: 8 @3792 has 1 MA's), (10, 3870), (14, 3945), (15, 3954), (19, 4056), (20, 4068), (24, 4197), (28, 4308), (29, 4320), (30, 4329),

Gene: Cucurbita_35 Start: 14326, Stop: 15168, Start Num: 3
Candidate Starts for Cucurbita_35:
(Start: 3 @14326 has 20 MA's), (15, 14644), (16, 14662), (18, 14731), (26, 14962), (27, 14980),

Gene: Culver_33 Start: 12787, Stop: 13629, Start Num: 3
Candidate Starts for Culver_33:
(Start: 3 @12787 has 20 MA's), (15, 13105), (16, 13123), (18, 13192), (26, 13423), (27, 13441),

Gene: Daredevil_15 Start: 9291, Stop: 10022, Start Num: 6
Candidate Starts for Daredevil_15:
(4, 9249), (Start: 6 @9291 has 6 MA's), (11, 9447), (15, 9498), (17, 9528), (24, 9741), (28, 9855),

Gene: DatBoi_16 Start: 11219, Stop: 11971, Start Num: 6
Candidate Starts for DatBoi_16:
(Start: 6 @11219 has 6 MA's), (15, 11447), (17, 11477), (25, 11714), (28, 11804),

Gene: Dusty_32 Start: 12787, Stop: 13629, Start Num: 3
Candidate Starts for Dusty_32:
(Start: 3 @12787 has 20 MA's), (15, 13105), (16, 13123), (18, 13192), (26, 13423), (27, 13441),

Gene: Engineer_34 Start: 12982, Stop: 13824, Start Num: 3
Candidate Starts for Engineer_34:
(Start: 3 @12982 has 20 MA's), (15, 13300), (16, 13318), (18, 13387), (26, 13618), (27, 13636),

Gene: GAL1_7 Start: 5721, Stop: 6392, Start Num: 8
Candidate Starts for GAL1_7:

(5, 5676), (7, 5688), (Start: 8 @5721 has 1 MA's), (9, 5787), (10, 5799), (15, 5898), (22, 6054), (23, 6126), (24, 6129), (28, 6237),

Gene: Geeche_32 Start: 12856, Stop: 13698, Start Num: 3
Candidate Starts for Geeche_32:
(Start: 3 @12856 has 20 MA's), (15, 13174), (16, 13192), (18, 13261), (26, 13492), (27, 13510),

Gene: JonJames_33 Start: 17183, Stop: 18052, Start Num: 3
Candidate Starts for JonJames_33:
(Start: 3 @17183 has 20 MA's), (12, 17432), (15, 17489), (16, 17507), (28, 17864),

Gene: Lozinak_33 Start: 13037, Stop: 13879, Start Num: 3
Candidate Starts for Lozinak_33:
(Start: 3 @13037 has 20 MA's), (15, 13355), (16, 13373), (18, 13442), (26, 13673), (27, 13691),

Gene: Miskis_31 Start: 12812, Stop: 13654, Start Num: 3
Candidate Starts for Miskis_31:
(Start: 3 @12812 has 20 MA's), (15, 13130), (16, 13148), (18, 13217), (26, 13448), (27, 13466),

Gene: Mollymur_16 Start: 11310, Stop: 12056, Start Num: 6
Candidate Starts for Mollymur_16:
(Start: 6 @11310 has 6 MA's), (15, 11523), (17, 11553),

Gene: Norvs_34 Start: 13039, Stop: 13881, Start Num: 3
Candidate Starts for Norvs_34:
(Start: 3 @13039 has 20 MA's), (15, 13357), (16, 13375), (18, 13444), (26, 13675), (27, 13693),

Gene: OneUp_27 Start: 10856, Stop: 11653, Start Num: 3
Candidate Starts for OneUp_27:
(1, 10697), (2, 10730), (Start: 3 @10856 has 20 MA's), (13, 11117), (15, 11138), (16, 11156), (27, 11474),

Gene: PhinkBoden_33 Start: 13420, Stop: 14262, Start Num: 3
Candidate Starts for PhinkBoden_33:
(Start: 3 @13420 has 20 MA's), (15, 13738), (16, 13756), (18, 13825), (26, 14056), (27, 14074),

Gene: Smoothie_34 Start: 13037, Stop: 13879, Start Num: 3
Candidate Starts for Smoothie_34:
(Start: 3 @13037 has 20 MA's), (15, 13355), (16, 13373), (18, 13442), (26, 13673), (27, 13691),

Gene: SpeedDemon_160 Start: 10701, Stop: 11441, Start Num: 6
Candidate Starts for SpeedDemon_160:
(Start: 6 @10701 has 6 MA's), (15, 10917), (17, 10947), (21, 11058), (25, 11184), (28, 11274),

Gene: Toniann_33 Start: 12982, Stop: 13824, Start Num: 3
Candidate Starts for Toniann_33:
(Start: 3 @12982 has 20 MA's), (15, 13300), (16, 13318), (18, 13387), (26, 13618), (27, 13636),

Gene: Towmatter_14 Start: 9113, Stop: 9844, Start Num: 6
Candidate Starts for Towmatter_14:
(4, 9071), (Start: 6 @9113 has 6 MA's), (11, 9269), (15, 9320), (17, 9350), (24, 9563), (28, 9677),

Gene: WilliamBoone_33 Start: 12377, Stop: 13213, Start Num: 3

Candidate Starts for WilliamBoone_33:
(Start: 3 @12377 has 20 MA's), (15, 12689), (16, 12707), (18, 12776), (26, 13007), (27, 13025),

Gene: Yvonnetastic_31 Start: 14732, Stop: 15601, Start Num: 3
Candidate Starts for Yvonnetastic_31:
(Start: 3 @14732 has 20 MA's), (12, 14981), (15, 15038), (16, 15056), (28, 15413),