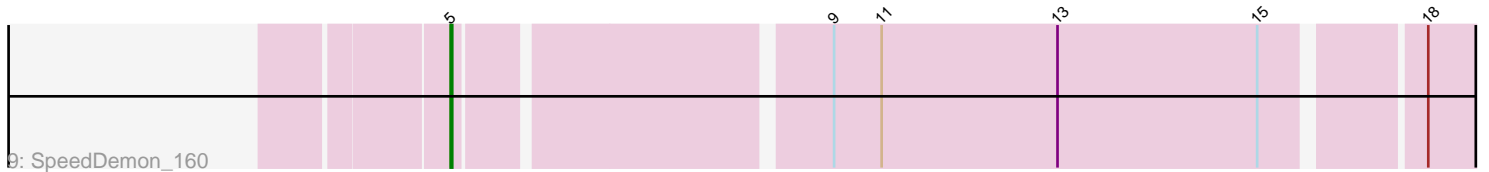
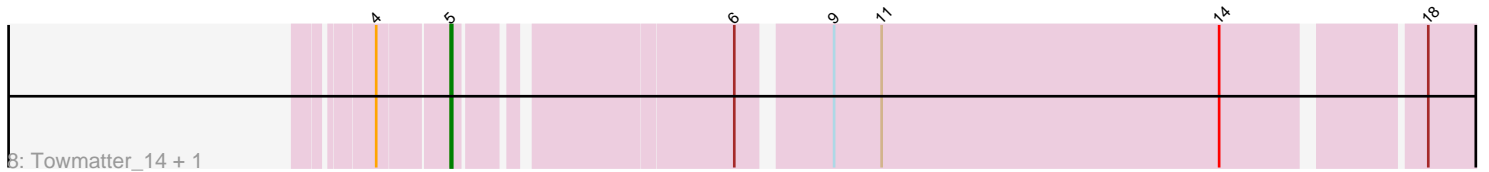
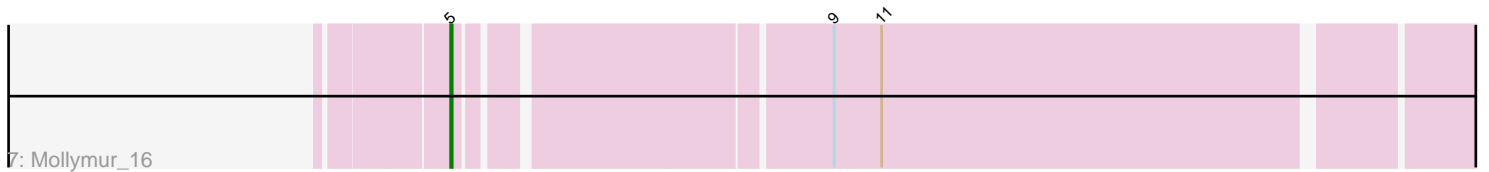
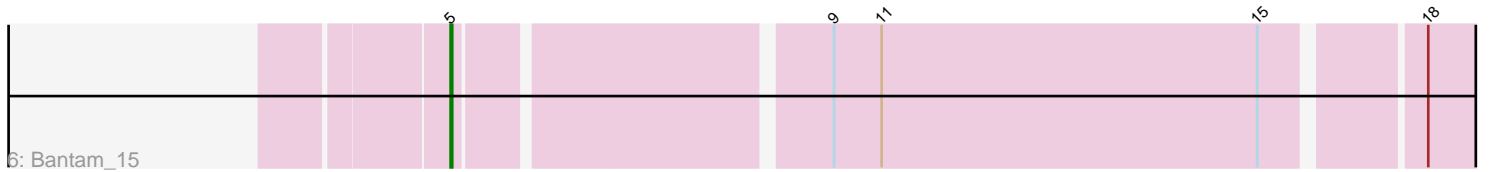
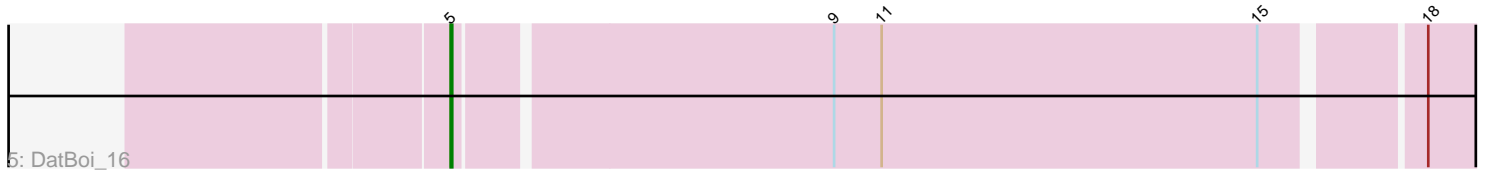
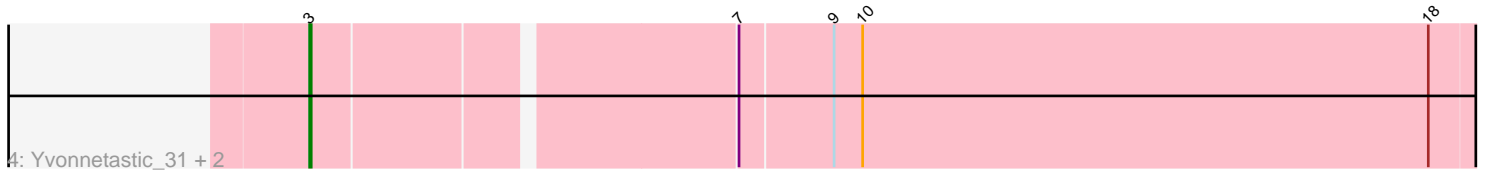
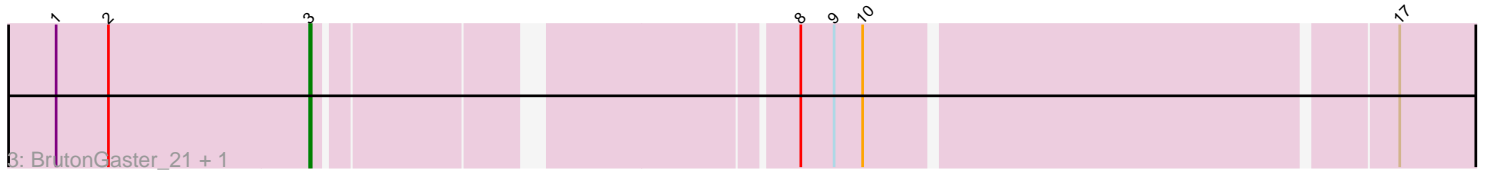


Pham 309083



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 309083 Report

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

Pham number 309083 has 27 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 : Yvonnestic_31, Cardigan_33, JonJames_33
- Track 5 : DatBoi_16
- Track 6 : Bantam_15
- Track 7 : Mollymur_16
- Track 8 : Towmatter_14, Daredevil_15
- Track 9 : SpeedDemon_160

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 19 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_32, Aphelion_33, Bachita_35, BrutonGaster_21, Cardigan_33, 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, Yvonnestic_31,

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

-

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

- Bantam_15, Daredevil_15, DatBoi_16, Mollymur_16, SpeedDemon_160, Towmatter_14,

Summary by start number:

Start 3:

- Found in 21 of 27 (77.8%) of genes in pham

- Manual Annotations of this start: 19 of 25
- 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_33 (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 5:

- Found in 6 of 27 (22.2%) of genes in pham
- Manual Annotations of this start: 6 of 25
- 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),

Summary by clusters:

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

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 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 5 was manually annotated 6 times for cluster DL.

Gene Information:

Gene: Abscondus_32 Start: 12787, Stop: 13629, Start Num: 3

Candidate Starts for Abscondus_32:

(Start: 3 @12787 has 19 MA's), (9, 13105), (10, 13123), (12, 13192), (16, 13423), (17, 13441),

Gene: Aphelion_33 Start: 13034, Stop: 13876, Start Num: 3

Candidate Starts for Aphelion_33:

(Start: 3 @13034 has 19 MA's), (9, 13352), (10, 13370), (12, 13439), (16, 13670), (17, 13688),

Gene: Bachita_35 Start: 13467, Stop: 14309, Start Num: 3

Candidate Starts for Bachita_35:

(Start: 3 @13467 has 19 MA's), (9, 13785), (10, 13803), (12, 13872), (16, 14103), (17, 14121),

Gene: Bantam_15 Start: 10395, Stop: 11135, Start Num: 5

Candidate Starts for Bantam_15:

(Start: 5 @10395 has 6 MA's), (9, 10611), (11, 10641), (15, 10878), (18, 10968),

Gene: BrutonGaster_21 Start: 9761, Stop: 10567, Start Num: 3

Candidate Starts for BrutonGaster_21:

(1, 9602), (2, 9635), (Start: 3 @9761 has 19 MA's), (8, 10031), (9, 10052), (10, 10070), (17, 10388),

Gene: Cardigan_33 Start: 14968, Stop: 15837, Start Num: 3

Candidate Starts for Cardigan_33:

(Start: 3 @14968 has 19 MA's), (7, 15217), (9, 15274), (10, 15292), (18, 15649),

Gene: ClubL_33 Start: 12968, Stop: 13810, Start Num: 3

Candidate Starts for ClubL_33:

(Start: 3 @12968 has 19 MA's), (9, 13286), (10, 13304), (12, 13373), (16, 13604), (17, 13622),

Gene: Cucurbita_35 Start: 14326, Stop: 15168, Start Num: 3

Candidate Starts for Cucurbita_35:

(Start: 3 @14326 has 19 MA's), (9, 14644), (10, 14662), (12, 14731), (16, 14962), (17, 14980),

Gene: Culver_33 Start: 12787, Stop: 13629, Start Num: 3

Candidate Starts for Culver_33:

(Start: 3 @12787 has 19 MA's), (9, 13105), (10, 13123), (12, 13192), (16, 13423), (17, 13441),

Gene: Daredevil_15 Start: 9291, Stop: 10022, Start Num: 5

Candidate Starts for Daredevil_15:

(4, 9249), (Start: 5 @9291 has 6 MA's), (6, 9447), (9, 9498), (11, 9528), (14, 9741), (18, 9855),

Gene: DatBoi_16 Start: 11219, Stop: 11971, Start Num: 5

Candidate Starts for DatBoi_16:

(Start: 5 @11219 has 6 MA's), (9, 11447), (11, 11477), (15, 11714), (18, 11804),

Gene: Dusty_32 Start: 12787, Stop: 13629, Start Num: 3

Candidate Starts for Dusty_32:

(Start: 3 @12787 has 19 MA's), (9, 13105), (10, 13123), (12, 13192), (16, 13423), (17, 13441),

Gene: Engineer_34 Start: 12982, Stop: 13824, Start Num: 3

Candidate Starts for Engineer_34:

(Start: 3 @12982 has 19 MA's), (9, 13300), (10, 13318), (12, 13387), (16, 13618), (17, 13636),

Gene: Geeche_32 Start: 12856, Stop: 13698, Start Num: 3

Candidate Starts for Geeche_32:

(Start: 3 @12856 has 19 MA's), (9, 13174), (10, 13192), (12, 13261), (16, 13492), (17, 13510),

Gene: JonJames_33 Start: 17183, Stop: 18052, Start Num: 3

Candidate Starts for JonJames_33:

(Start: 3 @17183 has 19 MA's), (7, 17432), (9, 17489), (10, 17507), (18, 17864),

Gene: Lozinak_33 Start: 13037, Stop: 13879, Start Num: 3

Candidate Starts for Lozinak_33:

(Start: 3 @13037 has 19 MA's), (9, 13355), (10, 13373), (12, 13442), (16, 13673), (17, 13691),

Gene: Miskis_31 Start: 12812, Stop: 13654, Start Num: 3

Candidate Starts for Miskis_31:

(Start: 3 @12812 has 19 MA's), (9, 13130), (10, 13148), (12, 13217), (16, 13448), (17, 13466),

Gene: Mollymur_16 Start: 11310, Stop: 12056, Start Num: 5

Candidate Starts for Mollymur_16:

(Start: 5 @11310 has 6 MA's), (9, 11523), (11, 11553),

Gene: Norvs_34 Start: 13039, Stop: 13881, Start Num: 3

Candidate Starts for Norvs_34:

(Start: 3 @13039 has 19 MA's), (9, 13357), (10, 13375), (12, 13444), (16, 13675), (17, 13693),

Gene: OneUp_27 Start: 10856, Stop: 11653, Start Num: 3

Candidate Starts for OneUp_27:

(1, 10697), (2, 10730), (Start: 3 @10856 has 19 MA's), (8, 11117), (9, 11138), (10, 11156), (17, 11474),

Gene: PhinkBoden_33 Start: 13420, Stop: 14262, Start Num: 3

Candidate Starts for PhinkBoden_33:

(Start: 3 @13420 has 19 MA's), (9, 13738), (10, 13756), (12, 13825), (16, 14056), (17, 14074),

Gene: Smoothie_34 Start: 13037, Stop: 13879, Start Num: 3

Candidate Starts for Smoothie_34:

(Start: 3 @13037 has 19 MA's), (9, 13355), (10, 13373), (12, 13442), (16, 13673), (17, 13691),

Gene: SpeedDemon_160 Start: 10701, Stop: 11441, Start Num: 5

Candidate Starts for SpeedDemon_160:

(Start: 5 @10701 has 6 MA's), (9, 10917), (11, 10947), (13, 11058), (15, 11184), (18, 11274),

Gene: Toniann_33 Start: 12982, Stop: 13824, Start Num: 3

Candidate Starts for Toniann_33:

(Start: 3 @12982 has 19 MA's), (9, 13300), (10, 13318), (12, 13387), (16, 13618), (17, 13636),

Gene: Towmatter_14 Start: 9113, Stop: 9844, Start Num: 5

Candidate Starts for Towmatter_14:

(4, 9071), (Start: 5 @9113 has 6 MA's), (6, 9269), (9, 9320), (11, 9350), (14, 9563), (18, 9677),

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

Candidate Starts for WilliamBoone_33:

(Start: 3 @12377 has 19 MA's), (9, 12689), (10, 12707), (12, 12776), (16, 13007), (17, 13025),

Gene: Yvonnetastic_31 Start: 14732, Stop: 15601, Start Num: 3

Candidate Starts for Yvonnetastic_31:

(Start: 3 @14732 has 19 MA's), (7, 14981), (9, 15038), (10, 15056), (18, 15413),