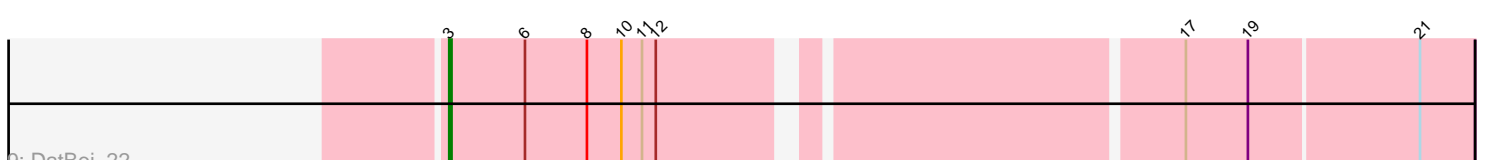
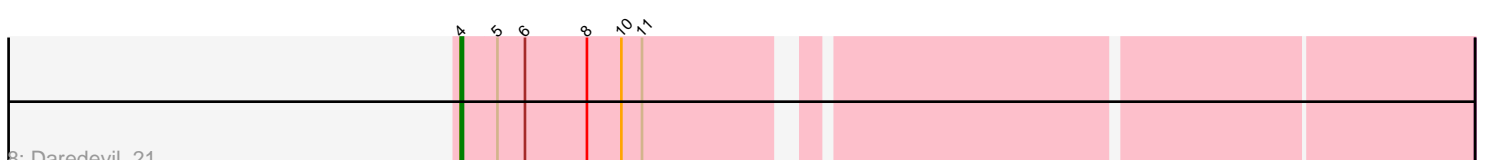
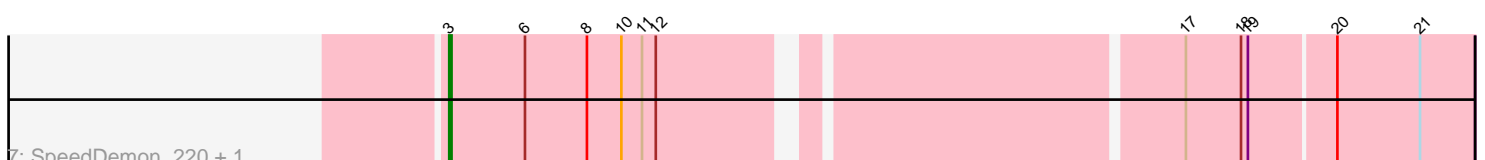
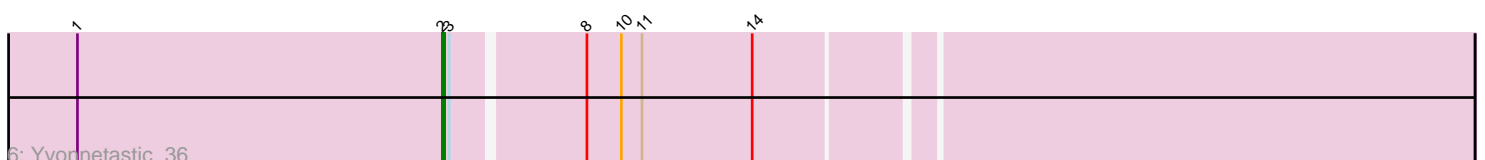
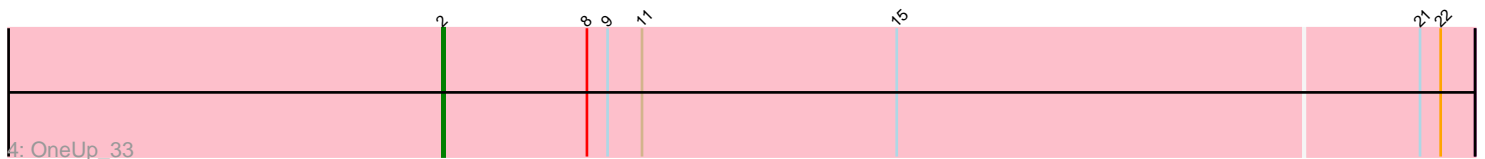
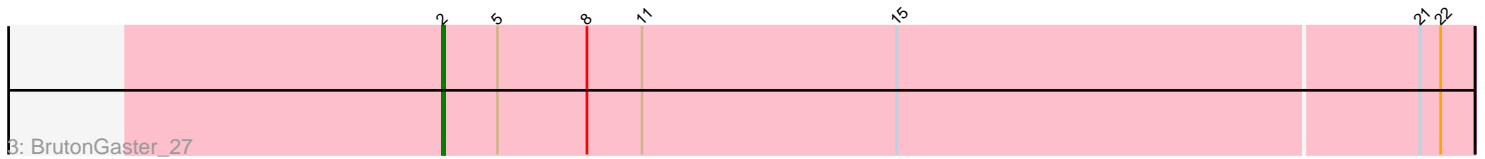
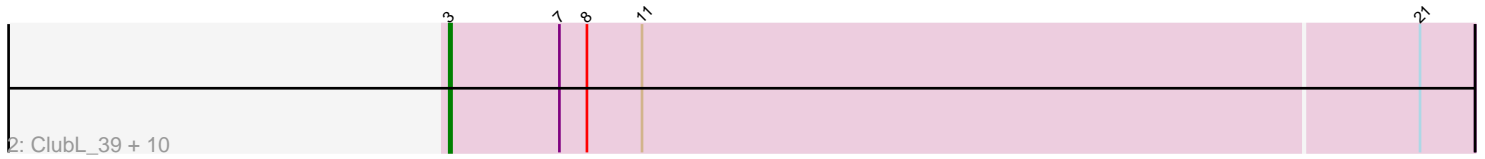
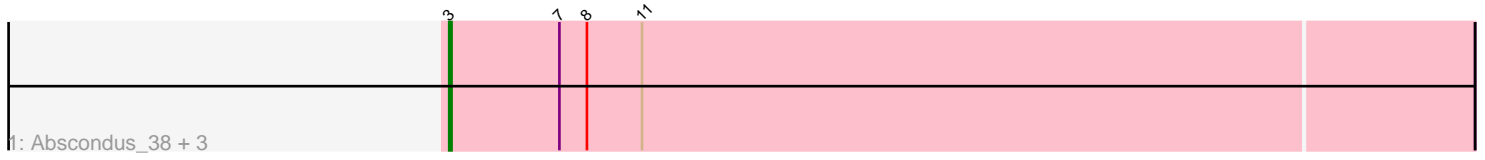


Pham 3427



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 3427 Report

This analysis was run 07/09/24 on database version 566.

Pham number 3427 has 25 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Abscondus_38, WilliamBoone_39, Dusty_37, Culver_39
- Track 2 : ClubL_39, Aphelion_39, Toniann_39, Norvs_40, Smoothie_40, Lozinak_39, Miskis_41, PhinkBoden_39, Cucurbita_41, Engineer_40, Bachita_41
- Track 3 : BrutonGaster_27
- Track 4 : OneUp_33
- Track 5 : JonJames_38, Cardigan_38
- Track 6 : Yvonnestic_36
- Track 7 : SpeedDemon_220, Bantam_21
- Track 8 : Daredevil_21
- Track 9 : DatBoi_22
- Track 10 : Mollymur_22

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 16 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_38, Aphelion_39, Bachita_41, Bantam_21, Cardigan_38, ClubL_39, Cucurbita_41, Culver_39, DatBoi_22, Dusty_37, Engineer_40, JonJames_38, Lozinak_39, Miskis_41, Norvs_40, PhinkBoden_39, Smoothie_40, SpeedDemon_220, Toniann_39, WilliamBoone_39,

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

- Yvonnestic_36,

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

- BrutonGaster_27, Daredevil_21, Mollymur_22, OneUp_33,

Summary by start number:

Start 2:

- Found in 5 of 25 (20.0%) of genes in pham
- Manual Annotations of this start: 3 of 21

- Called 60.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_27 (CQ2), OneUp_33 (CQ2), Yvonnetastic_36 (DD),

Start 3:

- Found in 21 of 25 (84.0%) of genes in pham
- Manual Annotations of this start: 16 of 21
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Abscondus_38 (CQ), Aphelion_39 (CQ1), Bachita_41 (CQ1), Bantam_21 (DL), Cardigan_38 (DD), ClubL_39 (CQ1), Cucurbita_41 (CQ1), Culver_39 (CQ1), DatBoi_22 (DL), Dusty_37 (CQ), Engineer_40 (CQ1), JonJames_38 (DD), Lozinak_39 (CQ1), Miskis_41 (CQ), Norvs_40 (CQ), PhinkBoden_39 (CQ1), Smoothie_40 (CQ1), SpeedDemon_220 (DL), Toniann_39 (CQ1), WilliamBoone_39 (CQ1),

Start 4:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Daredevil_21 (DL), Mollymur_22 (DL),

Summary by clusters:

There are 5 clusters represented in this pham: CQ2, DL, CQ, CQ1, DD,

Info for manual annotations of cluster CQ:

- Start number 3 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 3 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 2 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

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

Info for manual annotations of cluster DL:

- Start number 3 was manually annotated 3 times for cluster DL.
- Start number 4 was manually annotated 2 times for cluster DL.

Gene Information:

Gene: Abscondus_38 Start: 16231, Stop: 16674, Start Num: 3

Candidate Starts for Abscondus_38:

(Start: 3 @16231 has 16 MA's), (7, 16279), (8, 16291), (11, 16315),

Gene: Aphelion_39 Start: 16500, Stop: 16943, Start Num: 3

Candidate Starts for Aphelion_39:

(Start: 3 @16500 has 16 MA's), (7, 16548), (8, 16560), (11, 16584), (21, 16920),

Gene: Bachita_41 Start: 16933, Stop: 17376, Start Num: 3

Candidate Starts for Bachita_41:

(Start: 3 @16933 has 16 MA's), (7, 16981), (8, 16993), (11, 17017), (21, 17353),

Gene: Bantam_21 Start: 13959, Stop: 14378, Start Num: 3

Candidate Starts for Bantam_21:

(Start: 3 @13959 has 16 MA's), (6, 13992), (8, 14019), (10, 14034), (11, 14043), (12, 14049), (17, 14256), (18, 14280), (19, 14283), (20, 14319), (21, 14355),

Gene: BrutonGaster_27 Start: 13122, Stop: 13568, Start Num: 2

Candidate Starts for BrutonGaster_27:

(Start: 2 @13122 has 3 MA's), (5, 13146), (8, 13185), (11, 13209), (15, 13320), (21, 13545), (22, 13554),

Gene: Cardigan_38 Start: 18122, Stop: 18550, Start Num: 3

Candidate Starts for Cardigan_38:

(1, 17966), (Start: 2 @18119 has 3 MA's), (Start: 3 @18122 has 16 MA's), (8, 18176), (10, 18191), (11, 18200), (14, 18248),

Gene: ClubL_39 Start: 16422, Stop: 16865, Start Num: 3

Candidate Starts for ClubL_39:

(Start: 3 @16422 has 16 MA's), (7, 16470), (8, 16482), (11, 16506), (21, 16842),

Gene: Cucurbita_41 Start: 17792, Stop: 18235, Start Num: 3

Candidate Starts for Cucurbita_41:

(Start: 3 @17792 has 16 MA's), (7, 17840), (8, 17852), (11, 17876), (21, 18212),

Gene: Culver_39 Start: 16231, Stop: 16674, Start Num: 3

Candidate Starts for Culver_39:

(Start: 3 @16231 has 16 MA's), (7, 16279), (8, 16291), (11, 16315),

Gene: Daredevil_21 Start: 12800, Stop: 13213, Start Num: 4

Candidate Starts for Daredevil_21:

(Start: 4 @12800 has 2 MA's), (5, 12815), (6, 12827), (8, 12854), (10, 12869), (11, 12878),

Gene: DatBoi_22 Start: 14750, Stop: 15169, Start Num: 3

Candidate Starts for DatBoi_22:

(Start: 3 @14750 has 16 MA's), (6, 14783), (8, 14810), (10, 14825), (11, 14834), (12, 14840), (17, 15047), (19, 15074), (21, 15146),

Gene: Dusty_37 Start: 16231, Stop: 16674, Start Num: 3

Candidate Starts for Dusty_37:

(Start: 3 @16231 has 16 MA's), (7, 16279), (8, 16291), (11, 16315),

Gene: Engineer_40 Start: 16448, Stop: 16891, Start Num: 3

Candidate Starts for Engineer_40:

(Start: 3 @16448 has 16 MA's), (7, 16496), (8, 16508), (11, 16532), (21, 16868),

Gene: JonJames_38 Start: 20337, Stop: 20765, Start Num: 3

Candidate Starts for JonJames_38:

(1, 20181), (Start: 2 @20334 has 3 MA's), (Start: 3 @20337 has 16 MA's), (8, 20391), (10, 20406), (11, 20415), (14, 20463),

Gene: Lozinak_39 Start: 16503, Stop: 16946, Start Num: 3

Candidate Starts for Lozinak_39:

(Start: 3 @16503 has 16 MA's), (7, 16551), (8, 16563), (11, 16587), (21, 16923),

Gene: Miskis_41 Start: 16266, Stop: 16709, Start Num: 3

Candidate Starts for Miskis_41:

(Start: 3 @16266 has 16 MA's), (7, 16314), (8, 16326), (11, 16350), (21, 16686),

Gene: Mollymur_22 Start: 14803, Stop: 15216, Start Num: 4

Candidate Starts for Mollymur_22:

(Start: 4 @14803 has 2 MA's), (6, 14830), (8, 14857), (10, 14872), (11, 14881), (12, 14887), (13, 14908), (16, 14995), (21, 15193),

Gene: Norvs_40 Start: 16505, Stop: 16948, Start Num: 3

Candidate Starts for Norvs_40:

(Start: 3 @16505 has 16 MA's), (7, 16553), (8, 16565), (11, 16589), (21, 16925),

Gene: OneUp_33 Start: 14211, Stop: 14657, Start Num: 2

Candidate Starts for OneUp_33:

(Start: 2 @14211 has 3 MA's), (8, 14274), (9, 14283), (11, 14298), (15, 14409), (21, 14634), (22, 14643),

Gene: PhinkBoden_39 Start: 16886, Stop: 17329, Start Num: 3

Candidate Starts for PhinkBoden_39:

(Start: 3 @16886 has 16 MA's), (7, 16934), (8, 16946), (11, 16970), (21, 17306),

Gene: Smoothie_40 Start: 16503, Stop: 16946, Start Num: 3

Candidate Starts for Smoothie_40:

(Start: 3 @16503 has 16 MA's), (7, 16551), (8, 16563), (11, 16587), (21, 16923),

Gene: SpeedDemon_220 Start: 14275, Stop: 14694, Start Num: 3

Candidate Starts for SpeedDemon_220:

(Start: 3 @14275 has 16 MA's), (6, 14308), (8, 14335), (10, 14350), (11, 14359), (12, 14365), (17, 14572), (18, 14596), (19, 14599), (20, 14635), (21, 14671),

Gene: Toniann_39 Start: 16448, Stop: 16891, Start Num: 3

Candidate Starts for Toniann_39:

(Start: 3 @16448 has 16 MA's), (7, 16496), (8, 16508), (11, 16532), (21, 16868),

Gene: WilliamBoone_39 Start: 15812, Stop: 16255, Start Num: 3

Candidate Starts for WilliamBoone_39:

(Start: 3 @15812 has 16 MA's), (7, 15860), (8, 15872), (11, 15896),

Gene: Yvonnetastic_36 Start: 17883, Stop: 18314, Start Num: 2

Candidate Starts for Yvonnetastic_36:

(1, 17730), (Start: 2 @17883 has 3 MA's), (Start: 3 @17886 has 16 MA's), (8, 17940), (10, 17955), (11, 17964), (14, 18012),