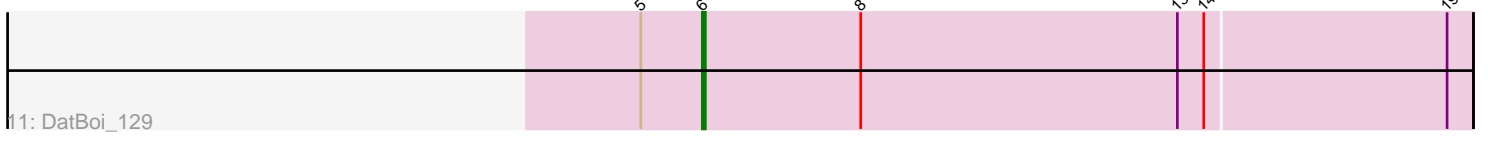
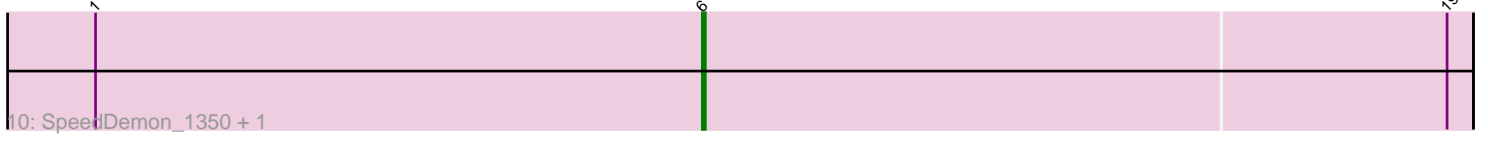
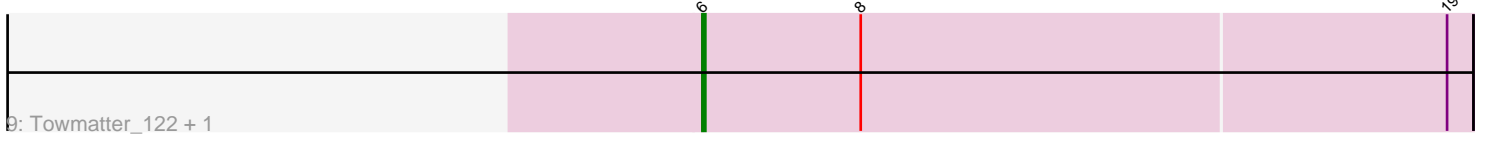
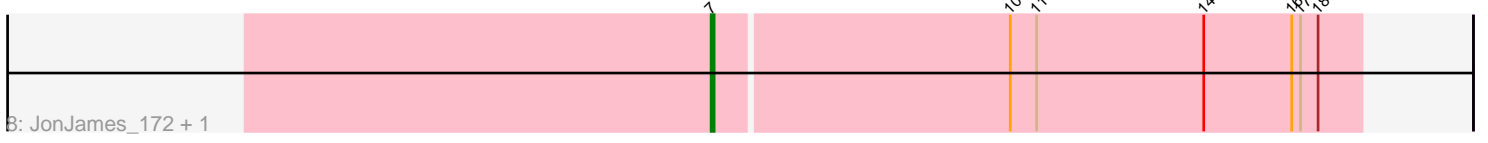
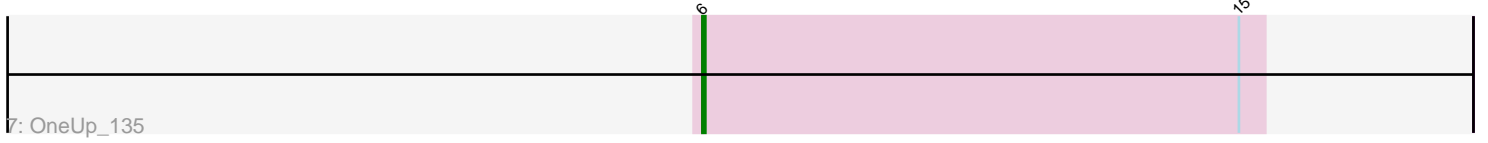
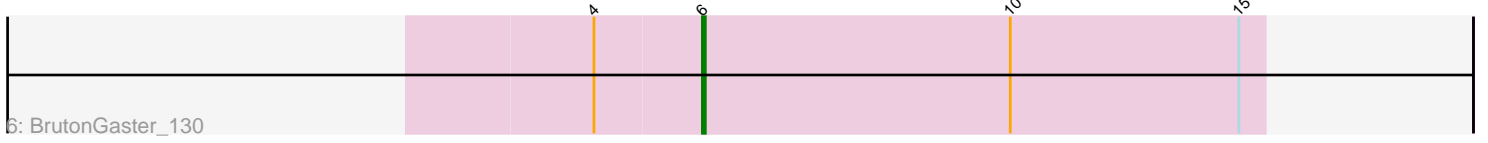
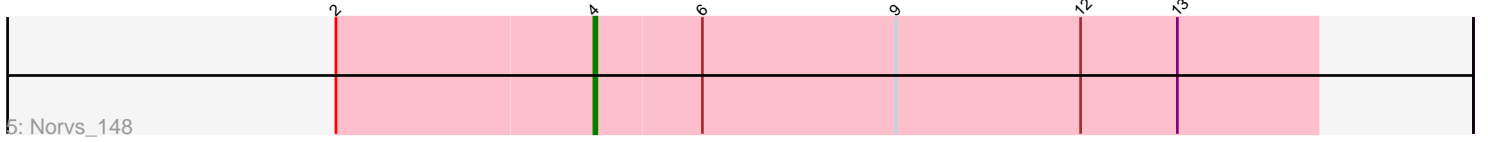
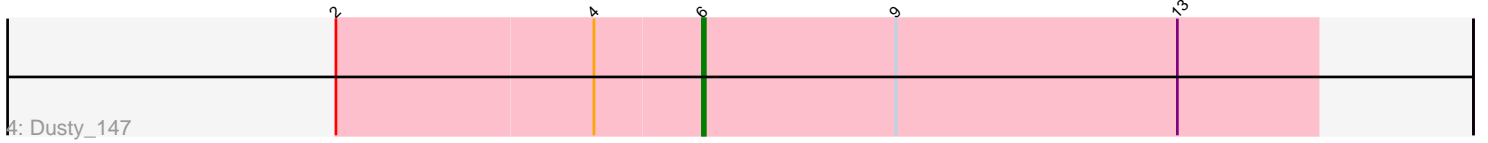
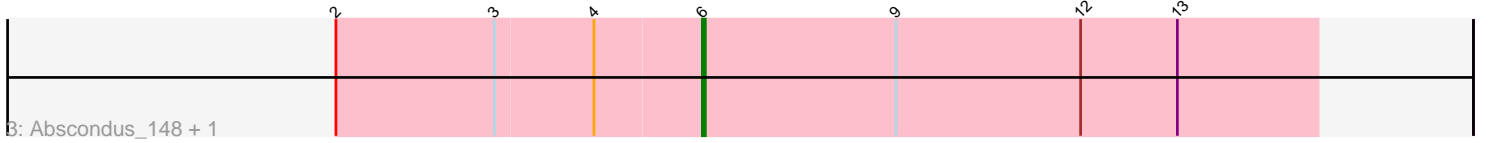
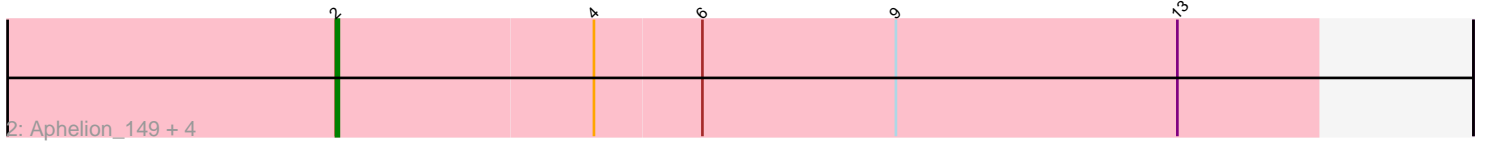
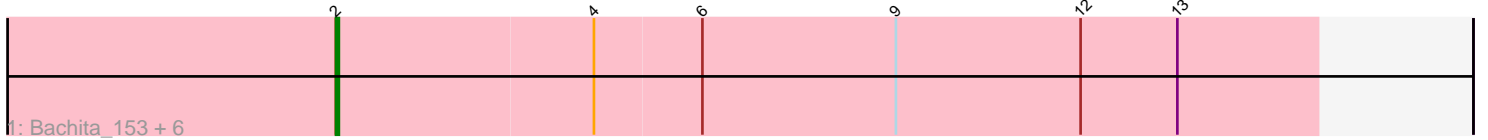


Pham 309155



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 309155 Report

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

Pham number 309155 has 25 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Bachita_153, Culver_150, PhinkBoden_148, Lozinak_150, Toniann_150, Cucurbita_149, Engineer_152
- Track 2 : Aphelion_149, ClubL_151, WilliamBoone_151, Miskis_143, Smoothie_151
- Track 3 : Abscondus_148, Geeche_150
- Track 4 : Dusty_147
- Track 5 : Norvs_148
- Track 6 : BrutonGaster_130
- Track 7 : OneUp_135
- Track 8 : JonJames_172, Cardigan_174
- Track 9 : Towmatter_122, Daredevil_124
- Track 10 : SpeedDemon_1350, Bantam_132
- Track 11 : DatBoi_129

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion_149, Bachita_153, ClubL_151, Cucurbita_149, Culver_150, Engineer_152, Lozinak_150, Miskis_143, PhinkBoden_148, Smoothie_151, Toniann_150, WilliamBoone_151,

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

- Abscondus_148, Dusty_147, Geeche_150, Norvs_148,

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

- Bantam_132, BrutonGaster_130, Cardigan_174, Daredevil_124, DatBoi_129, JonJames_172, OneUp_135, SpeedDemon_1350, Towmatter_122,

Summary by start number:

Start 2:

- Found in 16 of 25 (64.0%) of genes in pham

- Manual Annotations of this start: 12 of 23
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Aphelion_149 (CQ1), Bachita_153 (CQ1), ClubL_151 (CQ1), Cucurbita_149 (CQ1), Culver_150 (CQ1), Engineer_152 (CQ1), Lozinak_150 (CQ1), Miskis_143 (CQ1), PhinkBoden_148 (CQ1), Smoothie_151 (CQ1), Toniann_150 (CQ1), WilliamBoone_151 (CQ1),

Start 4:

- Found in 17 of 25 (68.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Norvs_148 (CQ1),

Start 6:

- Found in 23 of 25 (92.0%) of genes in pham
- Manual Annotations of this start: 9 of 23
- Called 43.5% of time when present
- Phage (with cluster) where this start called: Abscondus_148 (CQ1), Bantam_132 (DL), BrutonGaster_130 (CQ2), Daredevil_124 (DL), DatBoi_129 (DL), Dusty_147 (CQ1), Geeche_150 (CQ1), OneUp_135 (CQ2), SpeedDemon_1350 (DL), Towmatter_122 (DL),

Start 7:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_174 (DD), JonJames_172 (DD),

Summary by clusters:

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

Info for manual annotations of cluster CQ1:

- Start number 2 was manually annotated 12 times for cluster CQ1.
- Start number 4 was manually annotated 1 time for cluster CQ1.
- Start number 6 was manually annotated 2 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 6 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

- Start number 7 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:

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

Gene Information:

Gene: Abscondus_148 Start: 80856, Stop: 81065, Start Num: 6

Candidate Starts for Abscondus_148:

(Start: 2 @80733 has 12 MA's), (3, 80787), (Start: 4 @80820 has 1 MA's), (Start: 6 @80856 has 9 MA's), (9, 80922), (12, 80985), (13, 81018),

Gene: Aphelion_149 Start: 81626, Stop: 81958, Start Num: 2

Candidate Starts for Aphelion_149:

(Start: 2 @81626 has 12 MA's), (Start: 4 @81713 has 1 MA's), (Start: 6 @81749 has 9 MA's), (9, 81815), (13, 81911),

Gene: Bachita_153 Start: 81773, Stop: 82105, Start Num: 2

Candidate Starts for Bachita_153:

(Start: 2 @81773 has 12 MA's), (Start: 4 @81860 has 1 MA's), (Start: 6 @81896 has 9 MA's), (9, 81962), (12, 82025), (13, 82058),

Gene: Bantam_132 Start: 78853, Stop: 79113, Start Num: 6

Candidate Starts for Bantam_132:

(1, 78646), (Start: 6 @78853 has 9 MA's), (19, 79105),

Gene: BrutonGaster_130 Start: 77074, Stop: 77265, Start Num: 6

Candidate Starts for BrutonGaster_130:

(Start: 4 @77038 has 1 MA's), (Start: 6 @77074 has 9 MA's), (10, 77179), (15, 77257),

Gene: Cardigan_174 Start: 89051, Stop: 89269, Start Num: 7

Candidate Starts for Cardigan_174:

(Start: 7 @89051 has 1 MA's), (10, 89150), (11, 89159), (14, 89216), (16, 89246), (17, 89249), (18, 89255),

Gene: ClubL_151 Start: 81025, Stop: 81357, Start Num: 2

Candidate Starts for ClubL_151:

(Start: 2 @81025 has 12 MA's), (Start: 4 @81112 has 1 MA's), (Start: 6 @81148 has 9 MA's), (9, 81214), (13, 81310),

Gene: Cucurbita_149 Start: 82086, Stop: 82418, Start Num: 2

Candidate Starts for Cucurbita_149:

(Start: 2 @82086 has 12 MA's), (Start: 4 @82173 has 1 MA's), (Start: 6 @82209 has 9 MA's), (9, 82275), (12, 82338), (13, 82371),

Gene: Culver_150 Start: 80350, Stop: 80682, Start Num: 2

Candidate Starts for Culver_150:

(Start: 2 @80350 has 12 MA's), (Start: 4 @80437 has 1 MA's), (Start: 6 @80473 has 9 MA's), (9, 80539), (12, 80602), (13, 80635),

Gene: Daredevil_124 Start: 75106, Stop: 75366, Start Num: 6

Candidate Starts for Daredevil_124:

(Start: 6 @75106 has 9 MA's), (8, 75160), (19, 75358),

Gene: DatBoi_129 Start: 77831, Stop: 78091, Start Num: 6

Candidate Starts for DatBoi_129:

(5, 77810), (Start: 6 @77831 has 9 MA's), (8, 77885), (13, 77993), (14, 78002), (19, 78083),

Gene: Dusty_147 Start: 80684, Stop: 80893, Start Num: 6

Candidate Starts for Dusty_147:

(Start: 2 @80561 has 12 MA's), (Start: 4 @80648 has 1 MA's), (Start: 6 @80684 has 9 MA's), (9, 80750), (13, 80846),

Gene: Engineer_152 Start: 81609, Stop: 81941, Start Num: 2

Candidate Starts for Engineer_152:

(Start: 2 @81609 has 12 MA's), (Start: 4 @81696 has 1 MA's), (Start: 6 @81732 has 9 MA's), (9, 81798), (12, 81861), (13, 81894),

Gene: Geeche_150 Start: 81109, Stop: 81318, Start Num: 6

Candidate Starts for Geeche_150:

(Start: 2 @80986 has 12 MA's), (3, 81040), (Start: 4 @81073 has 1 MA's), (Start: 6 @81109 has 9 MA's), (9, 81175), (12, 81238), (13, 81271),

Gene: JonJames_172 Start: 90864, Stop: 91082, Start Num: 7

Candidate Starts for JonJames_172:

(Start: 7 @90864 has 1 MA's), (10, 90963), (11, 90972), (14, 91029), (16, 91059), (17, 91062), (18, 91068),

Gene: Lozinak_150 Start: 81614, Stop: 81946, Start Num: 2

Candidate Starts for Lozinak_150:

(Start: 2 @81614 has 12 MA's), (Start: 4 @81701 has 1 MA's), (Start: 6 @81737 has 9 MA's), (9, 81803), (12, 81866), (13, 81899),

Gene: Miskis_143 Start: 80375, Stop: 80707, Start Num: 2

Candidate Starts for Miskis_143:

(Start: 2 @80375 has 12 MA's), (Start: 4 @80462 has 1 MA's), (Start: 6 @80498 has 9 MA's), (9, 80564), (13, 80660),

Gene: Norvs_148 Start: 80892, Stop: 81137, Start Num: 4

Candidate Starts for Norvs_148:

(Start: 2 @80805 has 12 MA's), (Start: 4 @80892 has 1 MA's), (Start: 6 @80928 has 9 MA's), (9, 80994), (12, 81057), (13, 81090),

Gene: OneUp_135 Start: 80483, Stop: 80674, Start Num: 6

Candidate Starts for OneUp_135:

(Start: 6 @80483 has 9 MA's), (15, 80666),

Gene: PhinkBoden_148 Start: 81203, Stop: 81535, Start Num: 2

Candidate Starts for PhinkBoden_148:

(Start: 2 @81203 has 12 MA's), (Start: 4 @81290 has 1 MA's), (Start: 6 @81326 has 9 MA's), (9, 81392), (12, 81455), (13, 81488),

Gene: Smoothie_151 Start: 81190, Stop: 81522, Start Num: 2

Candidate Starts for Smoothie_151:

(Start: 2 @81190 has 12 MA's), (Start: 4 @81277 has 1 MA's), (Start: 6 @81313 has 9 MA's), (9, 81379), (13, 81475),

Gene: SpeedDemon_1350 Start: 81947, Stop: 82207, Start Num: 6

Candidate Starts for SpeedDemon_1350:

(1, 81740), (Start: 6 @81947 has 9 MA's), (19, 82199),

Gene: Toniann_150 Start: 80946, Stop: 81278, Start Num: 2

Candidate Starts for Toniann_150:

(Start: 2 @80946 has 12 MA's), (Start: 4 @81033 has 1 MA's), (Start: 6 @81069 has 9 MA's), (9, 81135), (12, 81198), (13, 81231),

Gene: Towmatter_122 Start: 75187, Stop: 75447, Start Num: 6

Candidate Starts for Towmatter_122:

(Start: 6 @75187 has 9 MA's), (8, 75241), (19, 75439),

Gene: WilliamBoone_151 Start: 79204, Stop: 79536, Start Num: 2

Candidate Starts for WilliamBoone_151:

(Start: 2 @79204 has 12 MA's), (Start: 4 @79291 has 1 MA's), (Start: 6 @79327 has 9 MA's), (9, 79393), (13, 79489),