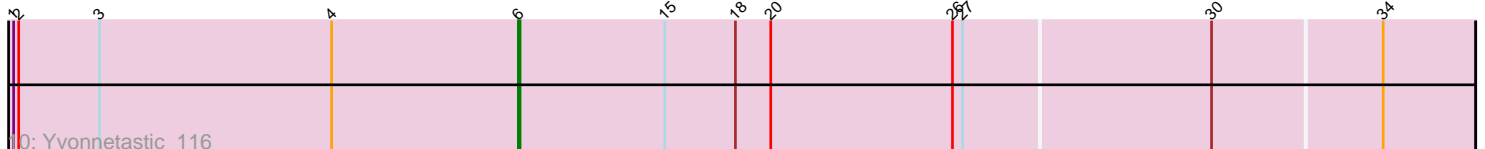
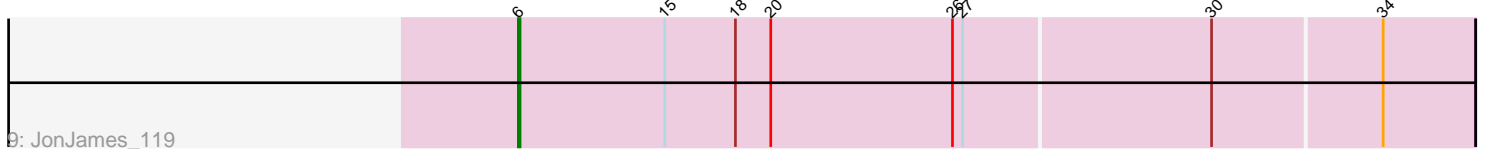
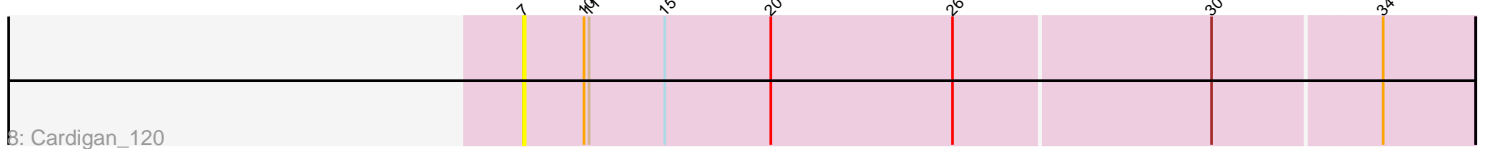
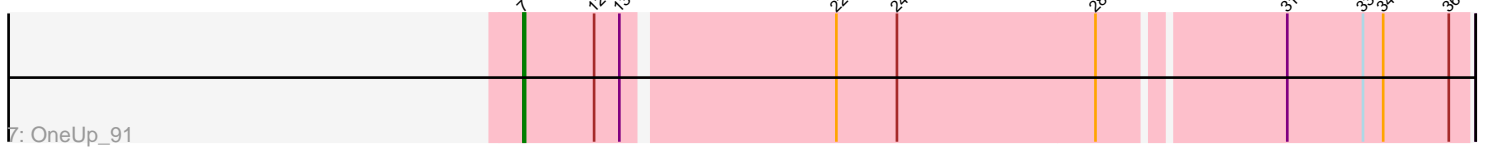
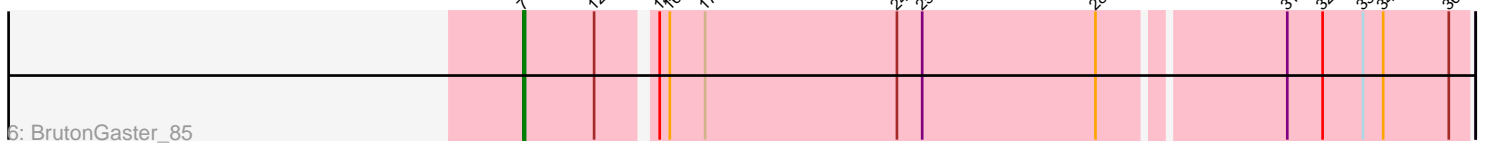
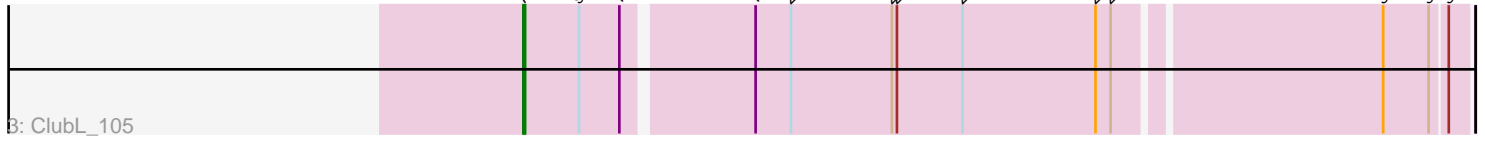
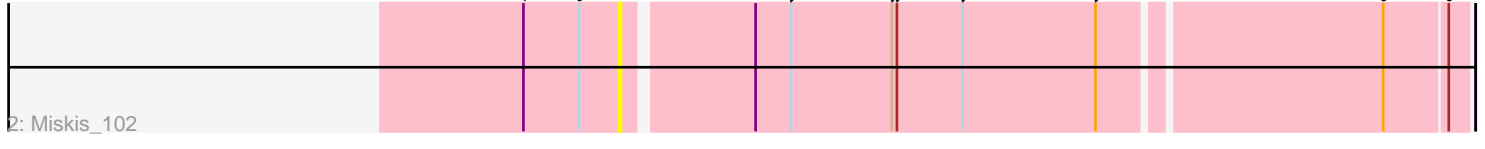
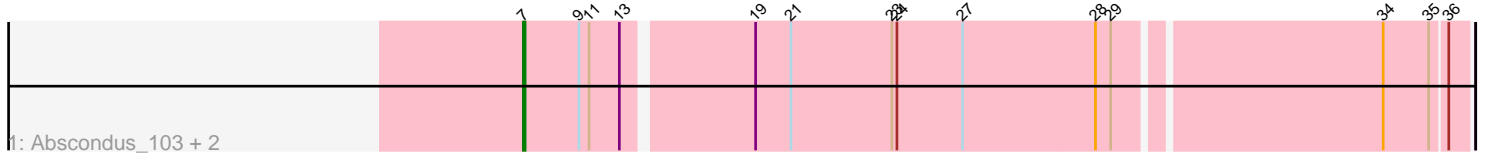


Pham 162182



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 162182 Report

This analysis was run 04/28/24 on database version 559.

Pham number 162182 has 20 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Abscondus_103, Aphelion_105, Norvs_106
- Track 2 : Miskis_102
- Track 3 : ClubL_105
- Track 4 : Culver_106, Engineer_105, Smoothie_105, Cucurbita_105, PhinkBoden_103, Dusty_101, Bachita_106, Lozinak_104, Toniann_106
- Track 5 : WilliamBoone_106
- Track 6 : BrutonGaster_85
- Track 7 : OneUp_91
- Track 8 : Cardigan_120
- Track 9 : JonJames_119
- Track 10 : Yvonnetastic_116

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

The start number called the most often in the published annotations is 7, it was called in 13 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_103, Aphelion_105, Bachita_106, BrutonGaster_85, Cardigan_120, ClubL_105, Cucurbita_105, Culver_106, Dusty_101, Engineer_105, Lozinak_104, Norvs_106, OneUp_91, PhinkBoden_103, Smoothie_105, Toniann_106,

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

- Miskis_102,

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

- JonJames_119, WilliamBoone_106, Yvonnetastic_116,

Summary by start number:

Start 6:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present

- Phage (with cluster) where this start called: JonJames_119 (DD), Yvonnetastic_116 (DD),

Start 7:

- Found in 17 of 20 (85.0%) of genes in pham
- Manual Annotations of this start: 13 of 16
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Abscondus_103 (CQ), Aphelion_105 (CQ1), Bachita_106 (CQ1), BrutonGaster_85 (CQ2), Cardigan_120 (DD), ClubL_105 (CQ1), Cucurbita_105 (CQ1), Culver_106 (CQ1), Dusty_101 (CQ), Engineer_105 (CQ1), Lozinak_104 (CQ1), Norvs_106 (CQ), OneUp_91 (CQ2), PhinkBoden_103 (CQ1), Smoothie_105 (CQ1), Toniann_106 (CQ1),

Start 8:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WilliamBoone_106 (CQ1),

Start 13:

- Found in 15 of 20 (75.0%) of genes in pham
- No Manual Annotations of this start.
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Miskis_102 (CQ),

Summary by clusters:

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

Info for manual annotations of cluster CQ:

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

Info for manual annotations of cluster CQ1:

- Start number 7 was manually annotated 10 times for cluster CQ1.
- Start number 8 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 7 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:

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

Gene Information:

Gene: Abscondus_103 Start: 62014, Stop: 62550, Start Num: 7

Candidate Starts for Abscondus_103:

(Start: 7 @62014 has 13 MA's), (9, 62047), (11, 62053), (13, 62071), (19, 62143), (21, 62164), (23, 62224), (24, 62227), (27, 62266), (28, 62344), (29, 62353), (34, 62503), (35, 62530), (36, 62539),

Gene: Aphelion_105 Start: 63567, Stop: 64103, Start Num: 7

Candidate Starts for Aphelion_105:

(Start: 7 @63567 has 13 MA's), (9, 63600), (11, 63606), (13, 63624), (19, 63696), (21, 63717), (23, 63777), (24, 63780), (27, 63819), (28, 63897), (29, 63906), (34, 64056), (35, 64083), (36, 64092),

Gene: Bachita_106 Start: 63225, Stop: 63761, Start Num: 7

Candidate Starts for Bachita_106:

(Start: 7 @63225 has 13 MA's), (9, 63258), (13, 63282), (19, 63354), (21, 63375), (23, 63435), (24, 63438), (26, 63471), (27, 63477), (28, 63555), (29, 63564), (34, 63714), (36, 63750),

Gene: BrutonGaster_85 Start: 57332, Stop: 57871, Start Num: 7

Candidate Starts for BrutonGaster_85:

(Start: 7 @57332 has 13 MA's), (12, 57374), (14, 57404), (16, 57410), (17, 57431), (24, 57545), (25, 57560), (28, 57662), (31, 57764), (32, 57785), (33, 57809), (34, 57821), (36, 57860),

Gene: Cardigan_120 Start: 68409, Stop: 68963, Start Num: 7

Candidate Starts for Cardigan_120:

(Start: 7 @68409 has 13 MA's), (10, 68445), (11, 68448), (15, 68493), (20, 68556), (26, 68664), (30, 68814), (34, 68910),

Gene: ClubL_105 Start: 62155, Stop: 62691, Start Num: 7

Candidate Starts for ClubL_105:

(Start: 7 @62155 has 13 MA's), (9, 62188), (13, 62212), (19, 62284), (21, 62305), (23, 62365), (24, 62368), (27, 62407), (28, 62485), (29, 62494), (34, 62644), (35, 62671), (36, 62680),

Gene: Cucurbita_105 Start: 63732, Stop: 64268, Start Num: 7

Candidate Starts for Cucurbita_105:

(Start: 7 @63732 has 13 MA's), (9, 63765), (13, 63789), (19, 63861), (21, 63882), (23, 63942), (24, 63945), (26, 63978), (27, 63984), (28, 64062), (29, 64071), (34, 64221), (36, 64257),

Gene: Culver_106 Start: 62054, Stop: 62590, Start Num: 7

Candidate Starts for Culver_106:

(Start: 7 @62054 has 13 MA's), (9, 62087), (13, 62111), (19, 62183), (21, 62204), (23, 62264), (24, 62267), (26, 62300), (27, 62306), (28, 62384), (29, 62393), (34, 62543), (36, 62579),

Gene: Dusty_101 Start: 62073, Stop: 62609, Start Num: 7

Candidate Starts for Dusty_101:

(Start: 7 @62073 has 13 MA's), (9, 62106), (13, 62130), (19, 62202), (21, 62223), (23, 62283), (24, 62286), (26, 62319), (27, 62325), (28, 62403), (29, 62412), (34, 62562), (36, 62598),

Gene: Engineer_105 Start: 63198, Stop: 63734, Start Num: 7

Candidate Starts for Engineer_105:

(Start: 7 @63198 has 13 MA's), (9, 63231), (13, 63255), (19, 63327), (21, 63348), (23, 63408), (24, 63411), (26, 63444), (27, 63450), (28, 63528), (29, 63537), (34, 63687), (36, 63723),

Gene: JonJames_119 Start: 69097, Stop: 69654, Start Num: 6

Candidate Starts for JonJames_119:

(Start: 6 @69097 has 2 MA's), (15, 69184), (18, 69226), (20, 69247), (26, 69355), (27, 69361), (30, 69505), (34, 69601),

Gene: Lozinak_104 Start: 63036, Stop: 63572, Start Num: 7

Candidate Starts for Lozinak_104:

(Start: 7 @63036 has 13 MA's), (9, 63069), (13, 63093), (19, 63165), (21, 63186), (23, 63246), (24, 63249), (26, 63282), (27, 63288), (28, 63366), (29, 63375), (34, 63525), (36, 63561),

Gene: Miskis_102 Start: 61793, Stop: 62272, Start Num: 13

Candidate Starts for Miskis_102:

(Start: 7 @61736 has 13 MA's), (9, 61769), (13, 61793), (19, 61865), (21, 61886), (23, 61946), (24, 61949), (27, 61988), (28, 62066), (34, 62225), (36, 62261),

Gene: Norvs_106 Start: 63063, Stop: 63599, Start Num: 7

Candidate Starts for Norvs_106:

(Start: 7 @63063 has 13 MA's), (9, 63096), (11, 63102), (13, 63120), (19, 63192), (21, 63213), (23, 63273), (24, 63276), (27, 63315), (28, 63393), (29, 63402), (34, 63552), (35, 63579), (36, 63588),

Gene: OneUp_91 Start: 59239, Stop: 59778, Start Num: 7

Candidate Starts for OneUp_91:

(Start: 7 @59239 has 13 MA's), (12, 59281), (13, 59296), (22, 59416), (24, 59452), (28, 59569), (31, 59671), (33, 59716), (34, 59728), (36, 59767),

Gene: PhinkBoden_103 Start: 62826, Stop: 63362, Start Num: 7

Candidate Starts for PhinkBoden_103:

(Start: 7 @62826 has 13 MA's), (9, 62859), (13, 62883), (19, 62955), (21, 62976), (23, 63036), (24, 63039), (26, 63072), (27, 63078), (28, 63156), (29, 63165), (34, 63315), (36, 63351),

Gene: Smoothie_105 Start: 63036, Stop: 63572, Start Num: 7

Candidate Starts for Smoothie_105:

(Start: 7 @63036 has 13 MA's), (9, 63069), (13, 63093), (19, 63165), (21, 63186), (23, 63246), (24, 63249), (26, 63282), (27, 63288), (28, 63366), (29, 63375), (34, 63525), (36, 63561),

Gene: Toniann_106 Start: 63006, Stop: 63542, Start Num: 7

Candidate Starts for Toniann_106:

(Start: 7 @63006 has 13 MA's), (9, 63039), (13, 63063), (19, 63135), (21, 63156), (23, 63216), (24, 63219), (26, 63252), (27, 63258), (28, 63336), (29, 63345), (34, 63495), (36, 63531),

Gene: WilliamBoone_106 Start: 61643, Stop: 62158, Start Num: 8

Candidate Starts for WilliamBoone_106:

(5, 61622), (Start: 8 @61643 has 1 MA's), (14, 61694), (16, 61700), (21, 61772), (24, 61835), (27, 61874), (28, 61952), (29, 61961), (36, 62147),

Gene: Yvonnetastic_116 Start: 65875, Stop: 66432, Start Num: 6

Candidate Starts for Yvonnetastic_116:

(1, 65575), (2, 65578), (3, 65626), (4, 65764), (Start: 6 @65875 has 2 MA's), (15, 65962), (18, 66004), (20, 66025), (26, 66133), (27, 66139), (30, 66283), (34, 66379),