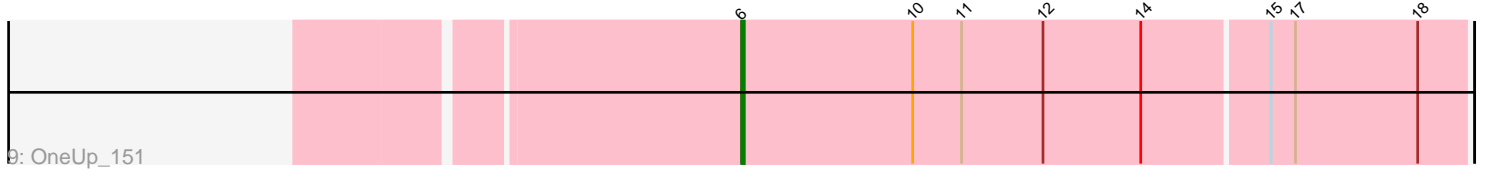
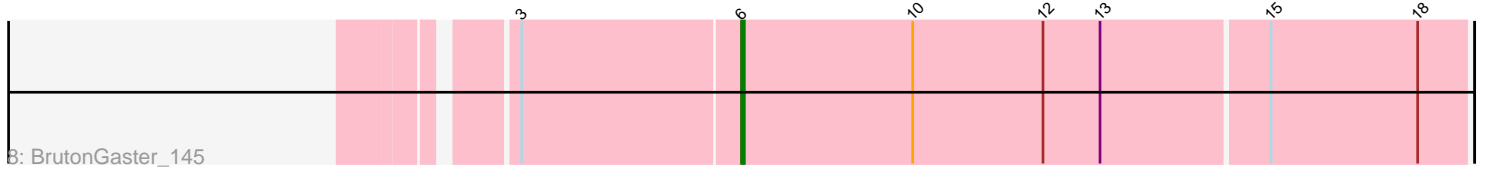
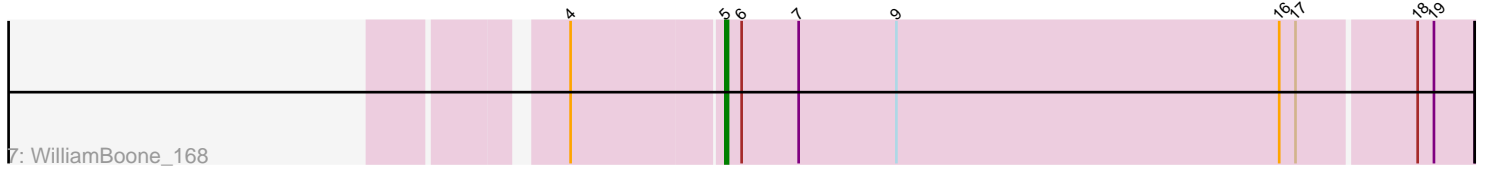
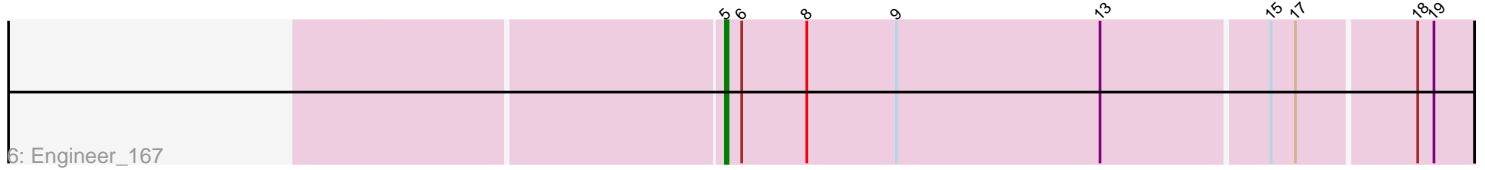
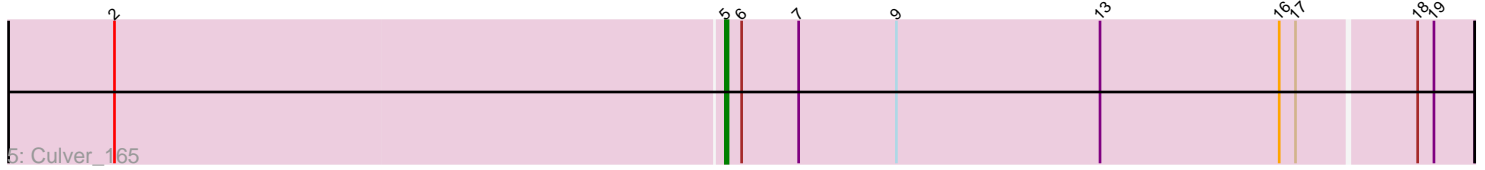
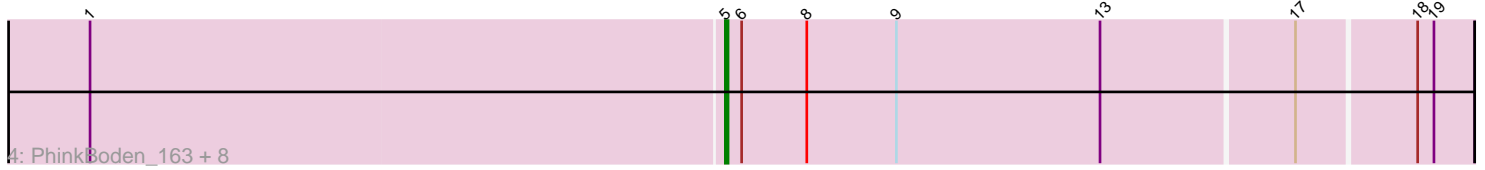
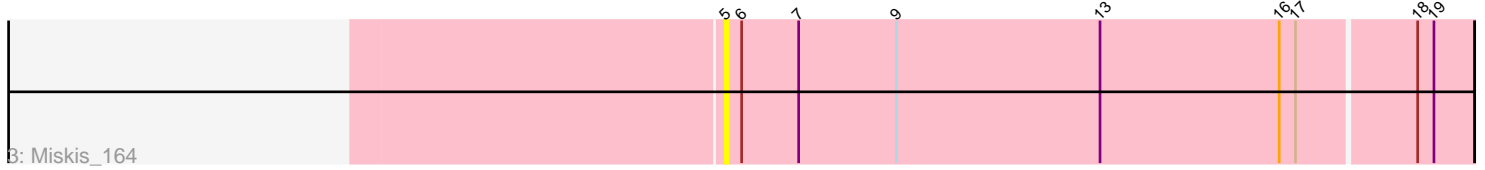
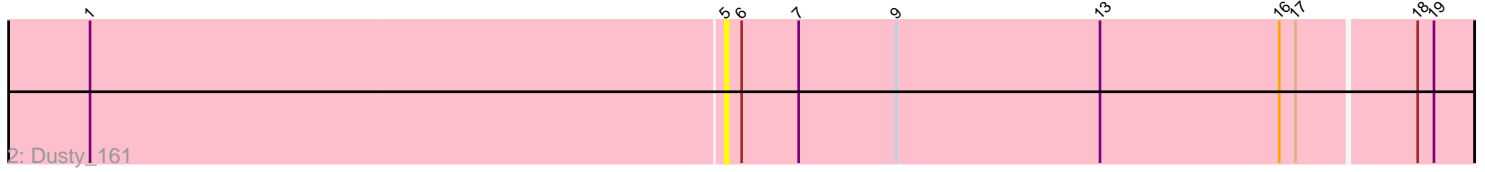
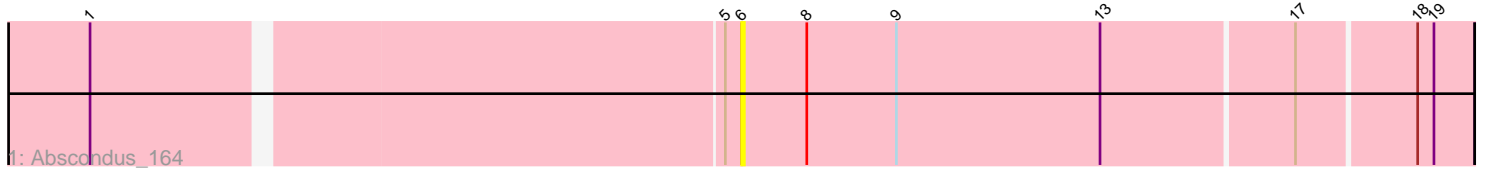


Pham 4720



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 4720 Report

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

Pham number 4720 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Abscondus_164
- Track 2 : Dusty_161
- Track 3 : Miskis_164
- Track 4 : PhinkBoden_163, Norvs_163, Lozinak_165, Cucurbita_164, Smoothie_167, Aphelion_164, Toniann_165, ClubL_166, Bachita_168
- Track 5 : Culver_165
- Track 6 : Engineer_167
- Track 7 : WilliamBoone_168
- Track 8 : BrutonGaster_145
- Track 9 : OneUp_151

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

The start number called the most often in the published annotations is 5, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aphelion_164, Bachita_168, ClubL_166, Cucurbita_164, Culver_165, Dusty_161, Engineer_167, Lozinak_165, Miskis_164, Norvs_163, PhinkBoden_163, Smoothie_167, Toniann_165, WilliamBoone_168,

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

- Abscondus_164,

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

- BrutonGaster_145, OneUp_151,

Summary by start number:

Start 5:

- Found in 15 of 17 (88.2%) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 93.3% of time when present

- Phage (with cluster) where this start called: Aphelion_164 (CQ1), Bachita_168 (CQ1), ClubL_166 (CQ1), Cucurbita_164 (CQ1), Culver_165 (CQ1), Dusty_161 (CQ), Engineer_167 (CQ1), Lozinak_165 (CQ1), Miskis_164 (CQ), Norvs_163 (CQ), PhinkBoden_163 (CQ1), Smoothie_167 (CQ1), Toniann_165 (CQ1), WilliamBoone_168 (CQ1),

Start 6:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 17.6% of time when present
- Phage (with cluster) where this start called: Abscondus_164 (CQ), BrutonGaster_145 (CQ2), OneUp_151 (CQ2),

Summary by clusters:

There are 3 clusters represented in this pham: CQ2, CQ1, CQ,

Info for manual annotations of cluster CQ:

- Start number 5 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 5 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

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

Gene Information:

Gene: Abscondus_164 Start: 85138, Stop: 84875, Start Num: 6

Candidate Starts for Abscondus_164:

(1, 85366), (Start: 5 @85144 has 12 MA's), (Start: 6 @85138 has 2 MA's), (8, 85114), (9, 85081), (13, 85006), (17, 84937), (18, 84895), (19, 84889),

Gene: Aphelion_164 Start: 86137, Stop: 85868, Start Num: 5

Candidate Starts for Aphelion_164:

(1, 86368), (Start: 5 @86137 has 12 MA's), (Start: 6 @86131 has 2 MA's), (8, 86107), (9, 86074), (13, 85999), (17, 85930), (18, 85888), (19, 85882),

Gene: Bachita_168 Start: 86215, Stop: 85946, Start Num: 5

Candidate Starts for Bachita_168:

(1, 86446), (Start: 5 @86215 has 12 MA's), (Start: 6 @86209 has 2 MA's), (8, 86185), (9, 86152), (13, 86077), (17, 86008), (18, 85966), (19, 85960),

Gene: BrutonGaster_145 Start: 81213, Stop: 80950, Start Num: 6

Candidate Starts for BrutonGaster_145:

(3, 81291), (Start: 6 @81213 has 2 MA's), (10, 81150), (12, 81102), (13, 81081), (15, 81021), (18, 80967),

Gene: ClubL_166 Start: 85458, Stop: 85189, Start Num: 5

Candidate Starts for ClubL_166:

(1, 85689), (Start: 5 @85458 has 12 MA's), (Start: 6 @85452 has 2 MA's), (8, 85428), (9, 85395), (13, 85320), (17, 85251), (18, 85209), (19, 85203),

Gene: Cucurbita_164 Start: 86519, Stop: 86250, Start Num: 5

Candidate Starts for Cucurbita_164:

(1, 86750), (Start: 5 @86519 has 12 MA's), (Start: 6 @86513 has 2 MA's), (8, 86489), (9, 86456), (13, 86381), (17, 86312), (18, 86270), (19, 86264),

Gene: Culver_165 Start: 84659, Stop: 84387, Start Num: 5

Candidate Starts for Culver_165:

(2, 84881), (Start: 5 @84659 has 12 MA's), (Start: 6 @84653 has 2 MA's), (7, 84632), (9, 84596), (13, 84521), (16, 84455), (17, 84449), (18, 84407), (19, 84401),

Gene: Dusty_161 Start: 84992, Stop: 84720, Start Num: 5

Candidate Starts for Dusty_161:

(1, 85223), (Start: 5 @84992 has 12 MA's), (Start: 6 @84986 has 2 MA's), (7, 84965), (9, 84929), (13, 84854), (16, 84788), (17, 84782), (18, 84740), (19, 84734),

Gene: Engineer_167 Start: 86058, Stop: 85789, Start Num: 5

Candidate Starts for Engineer_167:

(Start: 5 @86058 has 12 MA's), (Start: 6 @86052 has 2 MA's), (8, 86028), (9, 85995), (13, 85920), (15, 85860), (17, 85851), (18, 85809), (19, 85803),

Gene: Lozinak_165 Start: 86062, Stop: 85793, Start Num: 5

Candidate Starts for Lozinak_165:

(1, 86293), (Start: 5 @86062 has 12 MA's), (Start: 6 @86056 has 2 MA's), (8, 86032), (9, 85999), (13, 85924), (17, 85855), (18, 85813), (19, 85807),

Gene: Miskis_164 Start: 84873, Stop: 84601, Start Num: 5

Candidate Starts for Miskis_164:

(Start: 5 @84873 has 12 MA's), (Start: 6 @84867 has 2 MA's), (7, 84846), (9, 84810), (13, 84735), (16, 84669), (17, 84663), (18, 84621), (19, 84615),

Gene: Norvs_163 Start: 85238, Stop: 84969, Start Num: 5

Candidate Starts for Norvs_163:

(1, 85469), (Start: 5 @85238 has 12 MA's), (Start: 6 @85232 has 2 MA's), (8, 85208), (9, 85175), (13, 85100), (17, 85031), (18, 84989), (19, 84983),

Gene: OneUp_151 Start: 85154, Stop: 84891, Start Num: 6

Candidate Starts for OneUp_151:

(Start: 6 @85154 has 2 MA's), (10, 85091), (11, 85073), (12, 85043), (14, 85007), (15, 84962), (17, 84953), (18, 84908),

Gene: PhinkBoden_163 Start: 85636, Stop: 85367, Start Num: 5

Candidate Starts for PhinkBoden_163:

(1, 85867), (Start: 5 @85636 has 12 MA's), (Start: 6 @85630 has 2 MA's), (8, 85606), (9, 85573), (13, 85498), (17, 85429), (18, 85387), (19, 85381),

Gene: Smoothie_167 Start: 85934, Stop: 85665, Start Num: 5

Candidate Starts for Smoothie_167:

(1, 86165), (Start: 5 @85934 has 12 MA's), (Start: 6 @85928 has 2 MA's), (8, 85904), (9, 85871), (13, 85796), (17, 85727), (18, 85685), (19, 85679),

Gene: Toniann_165 Start: 85379, Stop: 85110, Start Num: 5

Candidate Starts for Toniann_165:

(1, 85610), (Start: 5 @85379 has 12 MA's), (Start: 6 @85373 has 2 MA's), (8, 85349), (9, 85316), (13, 85241), (17, 85172), (18, 85130), (19, 85124),

Gene: WilliamBoone_168 Start: 84030, Stop: 83758, Start Num: 5

Candidate Starts for WilliamBoone_168:

(4, 84084), (Start: 5 @84030 has 12 MA's), (Start: 6 @84024 has 2 MA's), (7, 84003), (9, 83967), (16, 83826), (17, 83820), (18, 83778), (19, 83772),