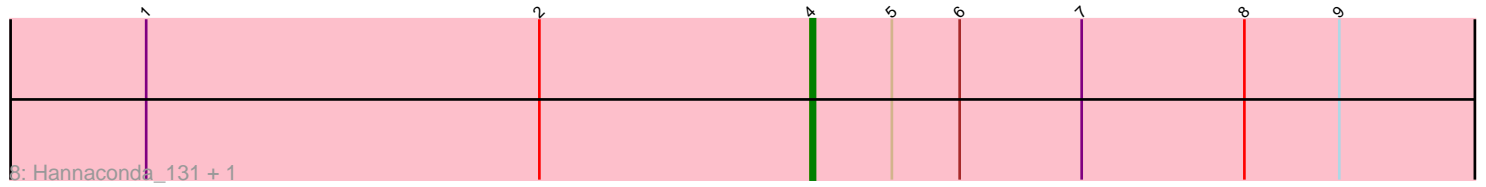
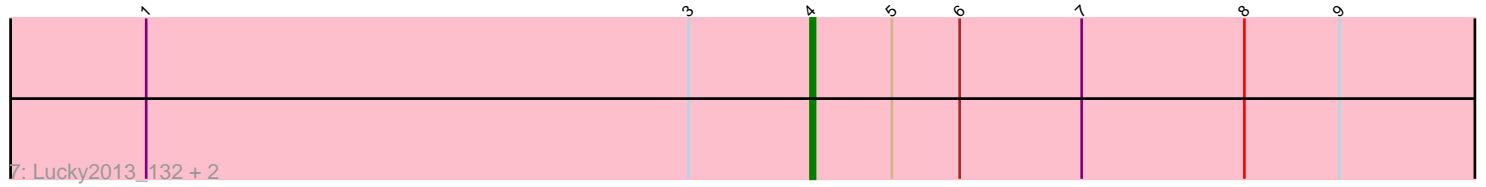
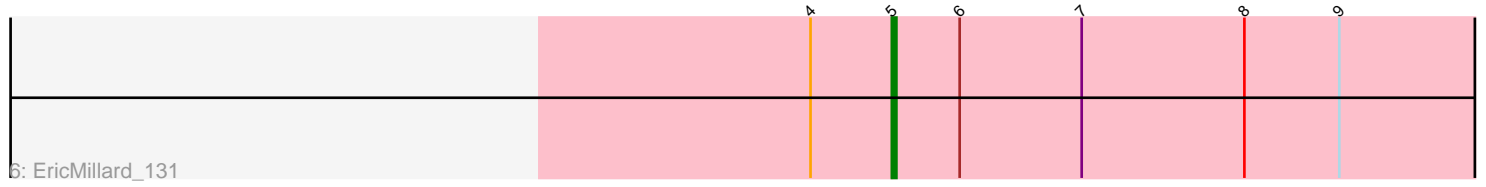
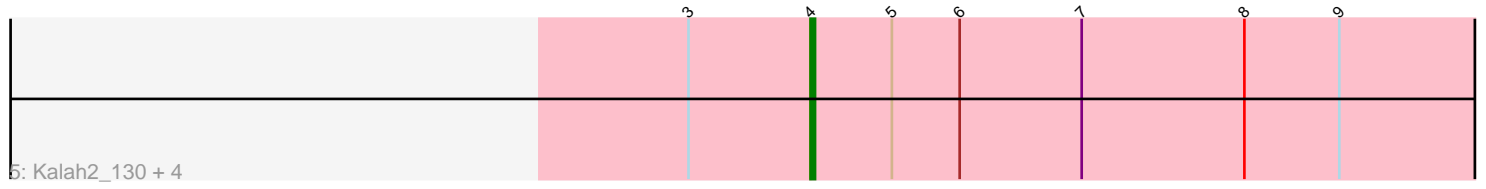
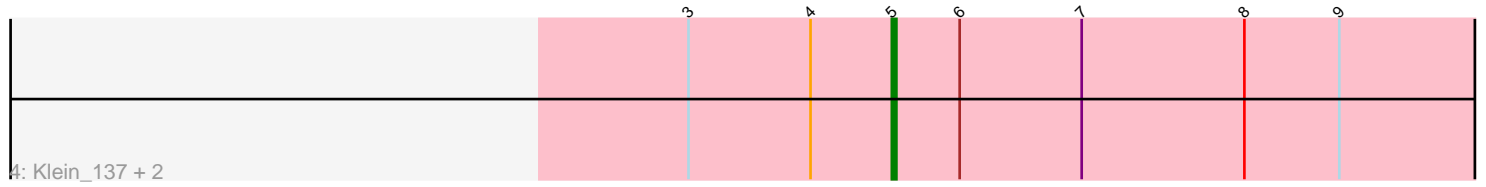
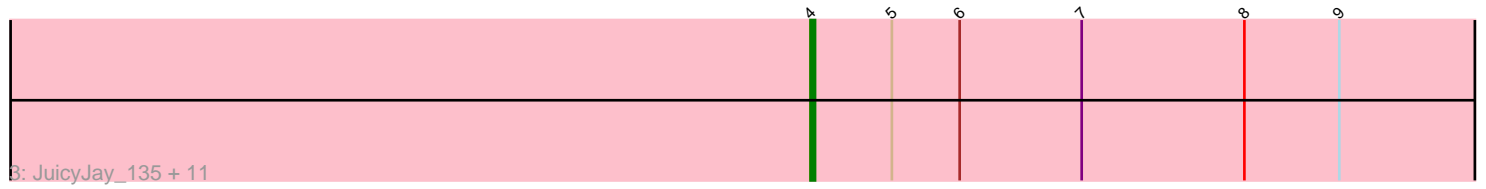
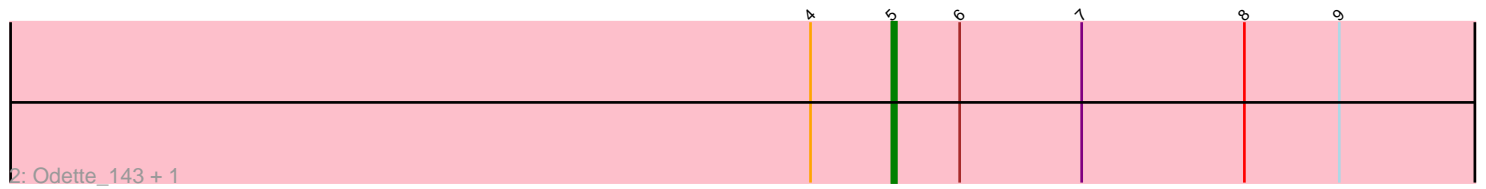
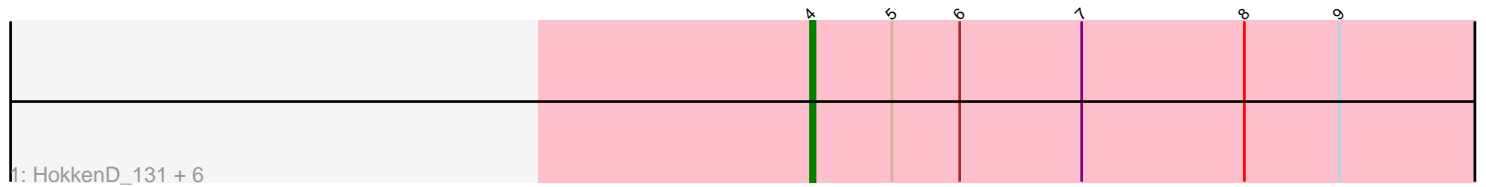


Pham 2631



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 2631 Report

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

Pham number 2631 has 35 members, 3 are drafts.

Phages represented in each track:

- Track 1 : HokkenD_131, ThreeRngTarjay_134, Bagrid_140, Phoebus_139, Redno2_131, BAKA_139, Yeet_132
- Track 2 : Odette_143, Zelink_134
- Track 3 : JuicyJay_135, Beem_141, Optimus_130, Duke13_135, Bombitas_127, Pound_127, Hughesyang_138, NihilNomen_141, Halley_141, Constella_133, Ejimix_132, Dallas_140
- Track 4 : Klein_137, Thibault_123, Dove_132
- Track 5 : Kalah2_130, Schatzie_135, Minerva_139, Wanda_139, DmpstrDiver_140
- Track 6 : EricMillard_131
- Track 7 : Lucky2013_132, MiaZeal_139, Porcelain_136
- Track 8 : Hannaconda_131, KashFlow_136

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

The start number called the most often in the published annotations is 4, it was called in 28 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BAKA_139, Bagrid_140, Beem_141, Bombitas_127, Constella_133, Dallas_140, DmpstrDiver_140, Duke13_135, Ejimix_132, Halley_141, Hannaconda_131, HokkenD_131, Hughesyang_138, JuicyJay_135, Kalah2_130, KashFlow_136, Lucky2013_132, MiaZeal_139, Minerva_139, NihilNomen_141, Optimus_130, Phoebus_139, Porcelain_136, Pound_127, Redno2_131, Schatzie_135, ThreeRngTarjay_134, Wanda_139, Yeet_132,

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

- Dove_132, EricMillard_131, Klein_137, Odette_143, Thibault_123, Zelink_134,

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

-

Summary by start number:

Start 4:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 28 of 32
- Called 82.9% of time when present
- Phage (with cluster) where this start called: BAKA_139 (J), Bagrid_140 (J), Beem_141 (J), Bombitas_127 (J), Constella_133 (J), Dallas_140 (J), DmpstrDiver_140 (J), Duke13_135 (J), Ejimix_132 (J), Halley_141 (J), Hannaconda_131 (J), HokkenD_131 (J), Hughesyang_138 (J), JuicyJay_135 (J), Kalah2_130 (J), KashFlow_136 (J), Lucky2013_132 (J), MiaZeal_139 (J), Minerva_139 (J), NihilNomen_141 (J), Optimus_130 (J), Phoebus_139 (J), Porcelain_136 (J), Pound_127 (J), Redno2_131 (J), Schatzie_135 (J), ThreeRngTarjay_134 (J), Wanda_139 (J), Yeet_132 (J),

Start 5:

- Found in 35 of 35 (100.0%) of genes in pham
- Manual Annotations of this start: 4 of 32
- Called 17.1% of time when present
- Phage (with cluster) where this start called: Dove_132 (J), EricMillard_131 (J), Klein_137 (J), Odette_143 (J), Thibault_123 (J), Zelink_134 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 28 times for cluster J.
- Start number 5 was manually annotated 4 times for cluster J.

Gene Information:

Gene: BAKA_139 Start: 74759, Stop: 74950, Start Num: 4

Candidate Starts for BAKA_139:

(Start: 4 @74759 has 28 MA's), (Start: 5 @74777 has 4 MA's), (6, 74792), (7, 74819), (8, 74855), (9, 74876),

Gene: Bagrid_140 Start: 75454, Stop: 75645, Start Num: 4

Candidate Starts for Bagrid_140:

(Start: 4 @75454 has 28 MA's), (Start: 5 @75472 has 4 MA's), (6, 75487), (7, 75514), (8, 75550), (9, 75571),

Gene: Beem_141 Start: 76357, Stop: 76548, Start Num: 4

Candidate Starts for Beem_141:

(Start: 4 @76357 has 28 MA's), (Start: 5 @76375 has 4 MA's), (6, 76390), (7, 76417), (8, 76453), (9, 76474),

Gene: Bombitas_127 Start: 73768, Stop: 73959, Start Num: 4

Candidate Starts for Bombitas_127:

(Start: 4 @73768 has 28 MA's), (Start: 5 @73786 has 4 MA's), (6, 73801), (7, 73828), (8, 73864), (9, 73885),

Gene: Constella_133 Start: 75010, Stop: 75201, Start Num: 4

Candidate Starts for Constella_133:

(Start: 4 @75010 has 28 MA's), (Start: 5 @75028 has 4 MA's), (6, 75043), (7, 75070), (8, 75106), (9, 75127),

Gene: Dallas_140 Start: 75824, Stop: 76015, Start Num: 4

Candidate Starts for Dallas_140:

(Start: 4 @75824 has 28 MA's), (Start: 5 @75842 has 4 MA's), (6, 75857), (7, 75884), (8, 75920), (9, 75941),

Gene: DmpstrDiver_140 Start: 75743, Stop: 75934, Start Num: 4

Candidate Starts for DmpstrDiver_140:

(3, 75716), (Start: 4 @75743 has 28 MA's), (Start: 5 @75761 has 4 MA's), (6, 75776), (7, 75803), (8, 75839), (9, 75860),

Gene: Dove_132 Start: 71360, Stop: 71533, Start Num: 5

Candidate Starts for Dove_132:

(3, 71315), (Start: 4 @71342 has 28 MA's), (Start: 5 @71360 has 4 MA's), (6, 71375), (7, 71402), (8, 71438), (9, 71459),

Gene: Duke13_135 Start: 73044, Stop: 73235, Start Num: 4

Candidate Starts for Duke13_135:

(Start: 4 @73044 has 28 MA's), (Start: 5 @73062 has 4 MA's), (6, 73077), (7, 73104), (8, 73140), (9, 73161),

Gene: Ejimix_132 Start: 75892, Stop: 76083, Start Num: 4

Candidate Starts for Ejimix_132:

(Start: 4 @75892 has 28 MA's), (Start: 5 @75910 has 4 MA's), (6, 75925), (7, 75952), (8, 75988), (9, 76009),

Gene: EricMillard_131 Start: 74414, Stop: 74587, Start Num: 5

Candidate Starts for EricMillard_131:

(Start: 4 @74396 has 28 MA's), (Start: 5 @74414 has 4 MA's), (6, 74429), (7, 74456), (8, 74492), (9, 74513),

Gene: Halley_141 Start: 76208, Stop: 76399, Start Num: 4

Candidate Starts for Halley_141:

(Start: 4 @76208 has 28 MA's), (Start: 5 @76226 has 4 MA's), (6, 76241), (7, 76268), (8, 76304), (9, 76325),

Gene: Hannaconda_131 Start: 72210, Stop: 72401, Start Num: 4

Candidate Starts for Hannaconda_131:

(1, 72063), (2, 72150), (Start: 4 @72210 has 28 MA's), (Start: 5 @72228 has 4 MA's), (6, 72243), (7, 72270), (8, 72306), (9, 72327),

Gene: HokkenD_131 Start: 75092, Stop: 75283, Start Num: 4

Candidate Starts for HokkenD_131:

(Start: 4 @75092 has 28 MA's), (Start: 5 @75110 has 4 MA's), (6, 75125), (7, 75152), (8, 75188), (9, 75209),

Gene: Hughesyang_138 Start: 75978, Stop: 76169, Start Num: 4

Candidate Starts for Hughesyang_138:

(Start: 4 @75978 has 28 MA's), (Start: 5 @75996 has 4 MA's), (6, 76011), (7, 76038), (8, 76074), (9, 76095),

Gene: JuicyJay_135 Start: 77493, Stop: 77684, Start Num: 4
Candidate Starts for JuicyJay_135:
(Start: 4 @77493 has 28 MA's), (Start: 5 @77511 has 4 MA's), (6, 77526), (7, 77553), (8, 77589), (9, 77610),

Gene: Kalah2_130 Start: 75099, Stop: 75290, Start Num: 4
Candidate Starts for Kalah2_130:
(3, 75072), (Start: 4 @75099 has 28 MA's), (Start: 5 @75117 has 4 MA's), (6, 75132), (7, 75159), (8, 75195), (9, 75216),

Gene: KashFlow_136 Start: 73788, Stop: 73979, Start Num: 4
Candidate Starts for KashFlow_136:
(1, 73641), (2, 73728), (Start: 4 @73788 has 28 MA's), (Start: 5 @73806 has 4 MA's), (6, 73821), (7, 73848), (8, 73884), (9, 73905),

Gene: Klein_137 Start: 73719, Stop: 73892, Start Num: 5
Candidate Starts for Klein_137:
(3, 73674), (Start: 4 @73701 has 28 MA's), (Start: 5 @73719 has 4 MA's), (6, 73734), (7, 73761), (8, 73797), (9, 73818),

Gene: Lucky2013_132 Start: 71916, Stop: 72107, Start Num: 4
Candidate Starts for Lucky2013_132:
(1, 71769), (3, 71889), (Start: 4 @71916 has 28 MA's), (Start: 5 @71934 has 4 MA's), (6, 71949), (7, 71976), (8, 72012), (9, 72033),

Gene: MiaZeal_139 Start: 73055, Stop: 73246, Start Num: 4
Candidate Starts for MiaZeal_139:
(1, 72908), (3, 73028), (Start: 4 @73055 has 28 MA's), (Start: 5 @73073 has 4 MA's), (6, 73088), (7, 73115), (8, 73151), (9, 73172),

Gene: Minerva_139 Start: 75150, Stop: 75341, Start Num: 4
Candidate Starts for Minerva_139:
(3, 75123), (Start: 4 @75150 has 28 MA's), (Start: 5 @75168 has 4 MA's), (6, 75183), (7, 75210), (8, 75246), (9, 75267),

Gene: NihilNomen_141 Start: 75438, Stop: 75629, Start Num: 4
Candidate Starts for NihilNomen_141:
(Start: 4 @75438 has 28 MA's), (Start: 5 @75456 has 4 MA's), (6, 75471), (7, 75498), (8, 75534), (9, 75555),

Gene: Odette_143 Start: 77599, Stop: 77772, Start Num: 5
Candidate Starts for Odette_143:
(Start: 4 @77581 has 28 MA's), (Start: 5 @77599 has 4 MA's), (6, 77614), (7, 77641), (8, 77677), (9, 77698),

Gene: Optimus_130 Start: 72718, Stop: 72909, Start Num: 4
Candidate Starts for Optimus_130:
(Start: 4 @72718 has 28 MA's), (Start: 5 @72736 has 4 MA's), (6, 72751), (7, 72778), (8, 72814), (9, 72835),

Gene: Phoebus_139 Start: 77332, Stop: 77523, Start Num: 4
Candidate Starts for Phoebus_139:

(Start: 4 @77332 has 28 MA's), (Start: 5 @77350 has 4 MA's), (6, 77365), (7, 77392), (8, 77428), (9, 77449),

Gene: Porcelain_136 Start: 72862, Stop: 73053, Start Num: 4

Candidate Starts for Porcelain_136:

(1, 72715), (3, 72835), (Start: 4 @72862 has 28 MA's), (Start: 5 @72880 has 4 MA's), (6, 72895), (7, 72922), (8, 72958), (9, 72979),

Gene: Pound_127 Start: 74030, Stop: 74221, Start Num: 4

Candidate Starts for Pound_127:

(Start: 4 @74030 has 28 MA's), (Start: 5 @74048 has 4 MA's), (6, 74063), (7, 74090), (8, 74126), (9, 74147),

Gene: Redno2_131 Start: 72720, Stop: 72911, Start Num: 4

Candidate Starts for Redno2_131:

(Start: 4 @72720 has 28 MA's), (Start: 5 @72738 has 4 MA's), (6, 72753), (7, 72780), (8, 72816), (9, 72837),

Gene: Schatzie_135 Start: 76000, Stop: 76191, Start Num: 4

Candidate Starts for Schatzie_135:

(3, 75973), (Start: 4 @76000 has 28 MA's), (Start: 5 @76018 has 4 MA's), (6, 76033), (7, 76060), (8, 76096), (9, 76117),

Gene: Thibault_123 Start: 72660, Stop: 72833, Start Num: 5

Candidate Starts for Thibault_123:

(3, 72615), (Start: 4 @72642 has 28 MA's), (Start: 5 @72660 has 4 MA's), (6, 72675), (7, 72702), (8, 72738), (9, 72759),

Gene: ThreeRngTarjay_134 Start: 75923, Stop: 76114, Start Num: 4

Candidate Starts for ThreeRngTarjay_134:

(Start: 4 @75923 has 28 MA's), (Start: 5 @75941 has 4 MA's), (6, 75956), (7, 75983), (8, 76019), (9, 76040),

Gene: Wanda_139 Start: 73630, Stop: 73821, Start Num: 4

Candidate Starts for Wanda_139:

(3, 73603), (Start: 4 @73630 has 28 MA's), (Start: 5 @73648 has 4 MA's), (6, 73663), (7, 73690), (8, 73726), (9, 73747),

Gene: Yeet_132 Start: 75121, Stop: 75312, Start Num: 4

Candidate Starts for Yeet_132:

(Start: 4 @75121 has 28 MA's), (Start: 5 @75139 has 4 MA's), (6, 75154), (7, 75181), (8, 75217), (9, 75238),

Gene: Zelink_134 Start: 76460, Stop: 76633, Start Num: 5

Candidate Starts for Zelink_134:

(Start: 4 @76442 has 28 MA's), (Start: 5 @76460 has 4 MA's), (6, 76475), (7, 76502), (8, 76538), (9, 76559),