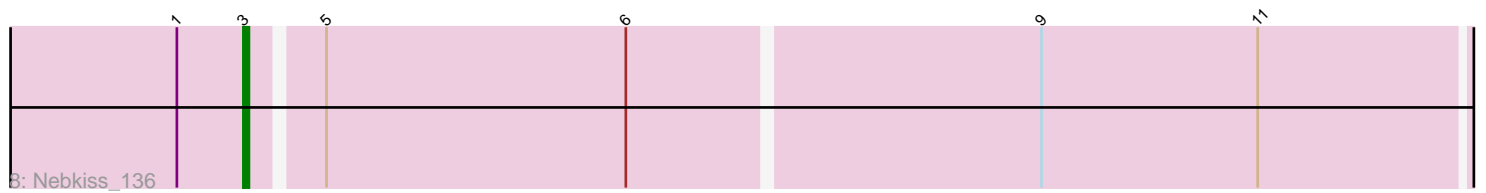
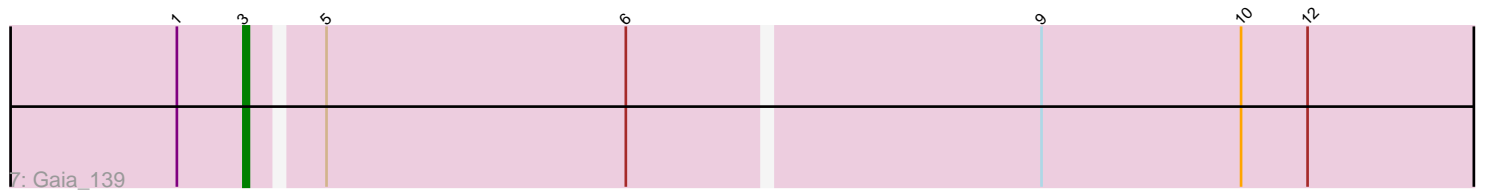
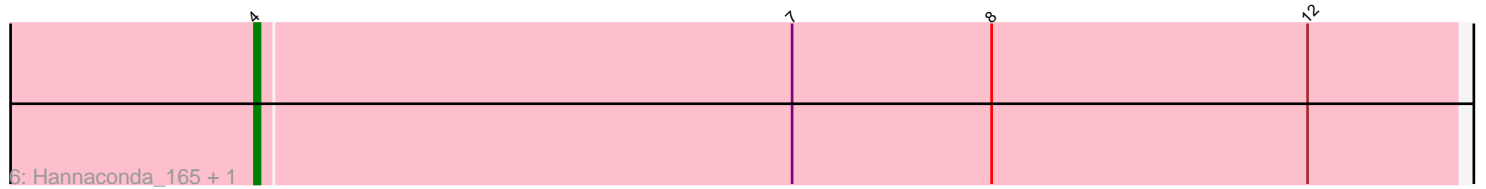
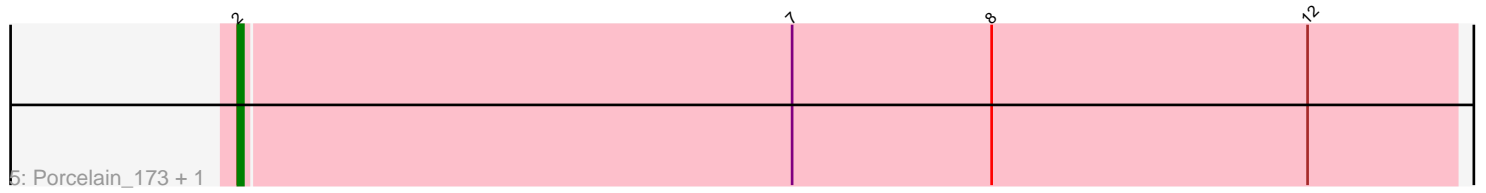
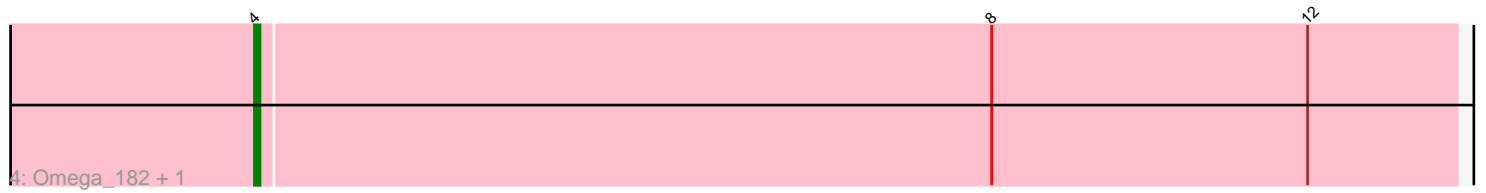
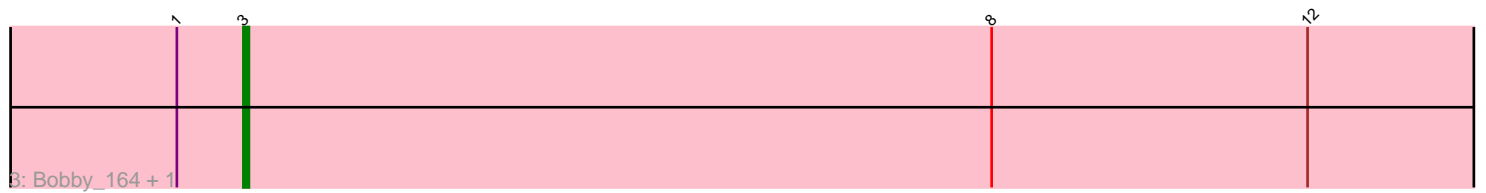
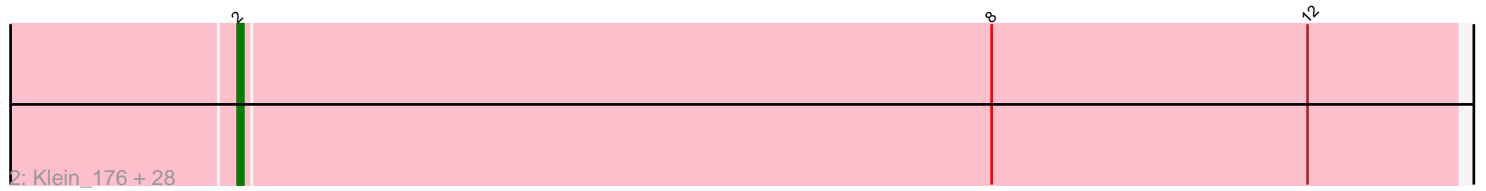
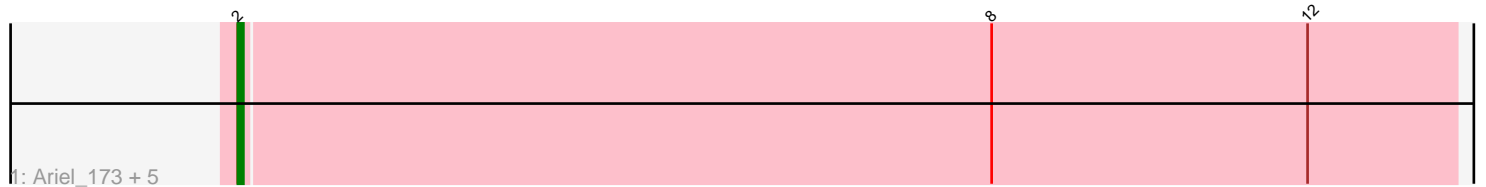


Pham 2142



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 2142 Report

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

Pham number 2142 has 45 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Ariel_173, Courthouse_170, ThreeRngTarjay_169, MiaZeal_176, Superphikiman_171, Gonephishing_167
- Track 2 : Klein_176, Redno2_166, Kalah2_169, EricMillard_170, Optimus_171, Dove_167, Ejimix_163, Duke13_175, Halley_173, Constella_168, NihilNomen_174, Bagrid_181, Phoebus_173, Zelink_165, Pound_166, Dallas_172, Odette_176, Yeet_164, JuicyJay_167, HokkenD_167, Beem_173, BAKA_178, Thibault_156, Schatzie_167, Bombitas_159, LittleE_180, Hughesyang_171, Wanda_170, Minerva_172
- Track 3 : Bobby_164, DmpstrDiver_173
- Track 4 : Omega_182, Squint_168
- Track 5 : Porcelain_173, Lucky2013_169
- Track 6 : Hannaconda_165, KashFlow_170
- Track 7 : Gaia_139
- Track 8 : Nebkiss_136

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 33 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_173, BAKA_178, Bagrid_181, Beem_173, Bombitas_159, Constella_168, Courthouse_170, Dallas_172, Dove_167, Duke13_175, Ejimix_163, EricMillard_170, Gonephishing_167, Halley_173, HokkenD_167, Hughesyang_171, JuicyJay_167, Kalah2_169, Klein_176, LittleE_180, Lucky2013_169, MiaZeal_176, Minerva_172, NihilNomen_174, Odette_176, Optimus_171, Phoebus_173, Porcelain_173, Pound_166, Redno2_166, Schatzie_167, Superphikiman_171, Thibault_156, ThreeRngTarjay_169, Wanda_170, Yeet_164, Zelink_165,

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

-

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

- Bobby_164, DmpstrDiver_173, Gaia_139, Hannaconda_165, KashFlow_170, Nebkiss_136, Omega_182, Squint_168,

Summary by start number:

Start 2:

- Found in 37 of 45 (82.2%) of genes in pham
- Manual Annotations of this start: 33 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_173 (J), BAKA_178 (J), Bagrid_181 (J), Beem_173 (J), Bombitas_159 (J), Constella_168 (J), Courthouse_170 (J), Dallas_172 (J), Dove_167 (J), Duke13_175 (J), Ejimix_163 (J), EricMillard_170 (J), Gonephishing_167 (J), Halley_173 (J), HokkenD_167 (J), Hughesyang_171 (J), JuicyJay_167 (J), Kalah2_169 (J), Klein_176 (J), LittleE_180 (J), Lucky2013_169 (J), MiaZeal_176 (J), Minerva_172 (J), NihilNomen_174 (J), Odette_176 (J), Optimus_171 (J), Phoebus_173 (J), Porcelain_173 (J), Pound_166 (J), Redno2_166 (J), Schatzie_167 (J), Superphikiman_171 (J), Thibault_156 (J), ThreeRngTarjay_169 (J), Wanda_170 (J), Yeet_164 (J), Zelink_165 (J),

Start 3:

- Found in 4 of 45 (8.9%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bobby_164 (J), DmpstrDiver_173 (J), Gaia_139 (X), Nebkiss_136 (X),

Start 4:

- Found in 4 of 45 (8.9%) of genes in pham
- Manual Annotations of this start: 4 of 41
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hannaconda_165 (J), KashFlow_170 (J), Omega_182 (J), Squint_168 (J),

Summary by clusters:

There are 2 clusters represented in this pham: X, J,

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 33 times for cluster J.
- Start number 3 was manually annotated 2 times for cluster J.
- Start number 4 was manually annotated 4 times for cluster J.

Info for manual annotations of cluster X:

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

Gene Information:

Gene: Ariel_173 Start: 87907, Stop: 88125, Start Num: 2

Candidate Starts for Ariel_173:

(Start: 2 @87907 has 33 MA's), (8, 88042), (12, 88099),

Gene: BAKA_178 Start: 92707, Stop: 92925, Start Num: 2

Candidate Starts for BAKA_178:

(Start: 2 @92707 has 33 MA's), (8, 92842), (12, 92899),

Gene: Bagrid_181 Start: 93173, Stop: 93391, Start Num: 2

Candidate Starts for Bagrid_181:

(Start: 2 @93173 has 33 MA's), (8, 93308), (12, 93365),

Gene: Beem_173 Start: 91862, Stop: 92080, Start Num: 2

Candidate Starts for Beem_173:

(Start: 2 @91862 has 33 MA's), (8, 91997), (12, 92054),

Gene: Bobby_164 Start: 92603, Stop: 92824, Start Num: 3

Candidate Starts for Bobby_164:

(1, 92591), (Start: 3 @92603 has 4 MA's), (8, 92738), (12, 92795),

Gene: Bombitas_159 Start: 88092, Stop: 88310, Start Num: 2

Candidate Starts for Bombitas_159:

(Start: 2 @88092 has 33 MA's), (8, 88227), (12, 88284),

Gene: Constella_168 Start: 90596, Stop: 90814, Start Num: 2

Candidate Starts for Constella_168:

(Start: 2 @90596 has 33 MA's), (8, 90731), (12, 90788),

Gene: Courthouse_170 Start: 88351, Stop: 88569, Start Num: 2

Candidate Starts for Courthouse_170:

(Start: 2 @88351 has 33 MA's), (8, 88486), (12, 88543),

Gene: Dallas_172 Start: 91085, Stop: 91303, Start Num: 2

Candidate Starts for Dallas_172:

(Start: 2 @91085 has 33 MA's), (8, 91220), (12, 91277),

Gene: DmpstrDiver_173 Start: 90529, Stop: 90747, Start Num: 3

Candidate Starts for DmpstrDiver_173:

(1, 90517), (Start: 3 @90529 has 4 MA's), (8, 90664), (12, 90721),

Gene: Dove_167 Start: 86448, Stop: 86666, Start Num: 2

Candidate Starts for Dove_167:

(Start: 2 @86448 has 33 MA's), (8, 86583), (12, 86640),

Gene: Duke13_175 Start: 91203, Stop: 91421, Start Num: 2

Candidate Starts for Duke13_175:

(Start: 2 @91203 has 33 MA's), (8, 91338), (12, 91395),

Gene: Ejimix_163 Start: 90073, Stop: 90291, Start Num: 2

Candidate Starts for Ejimix_163:

(Start: 2 @90073 has 33 MA's), (8, 90208), (12, 90265),

Gene: EricMillard_170 Start: 91783, Stop: 92001, Start Num: 2

Candidate Starts for EricMillard_170:

(Start: 2 @91783 has 33 MA's), (8, 91918), (12, 91975),

Gene: Gaia_139 Start: 75549, Stop: 75773, Start Num: 3

Candidate Starts for Gaia_139:

(1, 75537), (Start: 3 @75549 has 4 MA's), (5, 75561), (6, 75615), (9, 75687), (10, 75723), (12, 75735),

Gene: Gonephishing_167 Start: 89168, Stop: 89386, Start Num: 2

Candidate Starts for Gonephishing_167:

(Start: 2 @89168 has 33 MA's), (8, 89303), (12, 89360),

Gene: Halley_173 Start: 90389, Stop: 90607, Start Num: 2

Candidate Starts for Halley_173:

(Start: 2 @90389 has 33 MA's), (8, 90524), (12, 90581),

Gene: Hannaconda_165 Start: 90952, Stop: 91167, Start Num: 4

Candidate Starts for Hannaconda_165:

(Start: 4 @90952 has 4 MA's), (7, 91048), (8, 91084), (12, 91141),

Gene: HokkenD_167 Start: 92170, Stop: 92388, Start Num: 2

Candidate Starts for HokkenD_167:

(Start: 2 @92170 has 33 MA's), (8, 92305), (12, 92362),

Gene: Hughesyang_171 Start: 90871, Stop: 91089, Start Num: 2

Candidate Starts for Hughesyang_171:

(Start: 2 @90871 has 33 MA's), (8, 91006), (12, 91063),

Gene: JuicyJay_167 Start: 91817, Stop: 92035, Start Num: 2

Candidate Starts for JuicyJay_167:

(Start: 2 @91817 has 33 MA's), (8, 91952), (12, 92009),

Gene: Kalah2_169 Start: 92155, Stop: 92373, Start Num: 2

Candidate Starts for Kalah2_169:

(Start: 2 @92155 has 33 MA's), (8, 92290), (12, 92347),

Gene: KashFlow_170 Start: 90765, Stop: 90980, Start Num: 4

Candidate Starts for KashFlow_170:

(Start: 4 @90765 has 4 MA's), (7, 90861), (8, 90897), (12, 90954),

Gene: Klein_176 Start: 90598, Stop: 90816, Start Num: 2

Candidate Starts for Klein_176:

(Start: 2 @90598 has 33 MA's), (8, 90733), (12, 90790),

Gene: LittleE_180 Start: 91911, Stop: 92129, Start Num: 2

Candidate Starts for LittleE_180:

(Start: 2 @91911 has 33 MA's), (8, 92046), (12, 92103),

Gene: Lucky2013_169 Start: 87422, Stop: 87640, Start Num: 2

Candidate Starts for Lucky2013_169:

(Start: 2 @87422 has 33 MA's), (7, 87521), (8, 87557), (12, 87614),

Gene: MiaZeal_176 Start: 88569, Stop: 88787, Start Num: 2

Candidate Starts for MiaZeal_176:

(Start: 2 @88569 has 33 MA's), (8, 88704), (12, 88761),

Gene: Minerva_172 Start: 90235, Stop: 90453, Start Num: 2

Candidate Starts for Minerva_172:

(Start: 2 @90235 has 33 MA's), (8, 90370), (12, 90427),

Gene: Nebkiss_136 Start: 71549, Stop: 71767, Start Num: 3

Candidate Starts for Nebkiss_136:

(1, 71537), (Start: 3 @71549 has 4 MA's), (5, 71561), (6, 71615), (9, 71687), (11, 71726),

Gene: NihilNomen_174 Start: 89943, Stop: 90161, Start Num: 2

Candidate Starts for NihilNomen_174:

(Start: 2 @89943 has 33 MA's), (8, 90078), (12, 90135),

Gene: Odette_176 Start: 92624, Stop: 92842, Start Num: 2

Candidate Starts for Odette_176:

(Start: 2 @92624 has 33 MA's), (8, 92759), (12, 92816),

Gene: Omega_182 Start: 93146, Stop: 93361, Start Num: 4

Candidate Starts for Omega_182:

(Start: 4 @93146 has 4 MA's), (8, 93278), (12, 93335),

Gene: Optimus_171 Start: 91150, Stop: 91368, Start Num: 2

Candidate Starts for Optimus_171:

(Start: 2 @91150 has 33 MA's), (8, 91285), (12, 91342),

Gene: Phoebus_173 Start: 93630, Stop: 93848, Start Num: 2

Candidate Starts for Phoebus_173:

(Start: 2 @93630 has 33 MA's), (8, 93765), (12, 93822),

Gene: Porcelain_173 Start: 88368, Stop: 88586, Start Num: 2

Candidate Starts for Porcelain_173:

(Start: 2 @88368 has 33 MA's), (7, 88467), (8, 88503), (12, 88560),

Gene: Pound_166 Start: 89679, Stop: 89897, Start Num: 2

Candidate Starts for Pound_166:

(Start: 2 @89679 has 33 MA's), (8, 89814), (12, 89871),

Gene: Redno2_166 Start: 87743, Stop: 87961, Start Num: 2

Candidate Starts for Redno2_166:

(Start: 2 @87743 has 33 MA's), (8, 87878), (12, 87935),

Gene: Schatzie_167 Start: 90678, Stop: 90896, Start Num: 2

Candidate Starts for Schatzie_167:

(Start: 2 @90678 has 33 MA's), (8, 90813), (12, 90870),

Gene: Squint_168 Start: 88741, Stop: 88956, Start Num: 4

Candidate Starts for Squint_168:

(Start: 4 @88741 has 4 MA's), (8, 88873), (12, 88930),

Gene: Superphikiman_171 Start: 88047, Stop: 88265, Start Num: 2

Candidate Starts for Superphikiman_171:

(Start: 2 @88047 has 33 MA's), (8, 88182), (12, 88239),

Gene: Thibault_156 Start: 87558, Stop: 87776, Start Num: 2

Candidate Starts for Thibault_156:

(Start: 2 @87558 has 33 MA's), (8, 87693), (12, 87750),

Gene: ThreeRngTarjay_169 Start: 91670, Stop: 91888, Start Num: 2
Candidate Starts for ThreeRngTarjay_169:
(Start: 2 @91670 has 33 MA's), (8, 91805), (12, 91862),

Gene: Wanda_170 Start: 88247, Stop: 88465, Start Num: 2
Candidate Starts for Wanda_170:
(Start: 2 @88247 has 33 MA's), (8, 88382), (12, 88439),

Gene: Yeet_164 Start: 89531, Stop: 89749, Start Num: 2
Candidate Starts for Yeet_164:
(Start: 2 @89531 has 33 MA's), (8, 89666), (12, 89723),

Gene: Zelink_165 Start: 89866, Stop: 90084, Start Num: 2
Candidate Starts for Zelink_165:
(Start: 2 @89866 has 33 MA's), (8, 90001), (12, 90058),