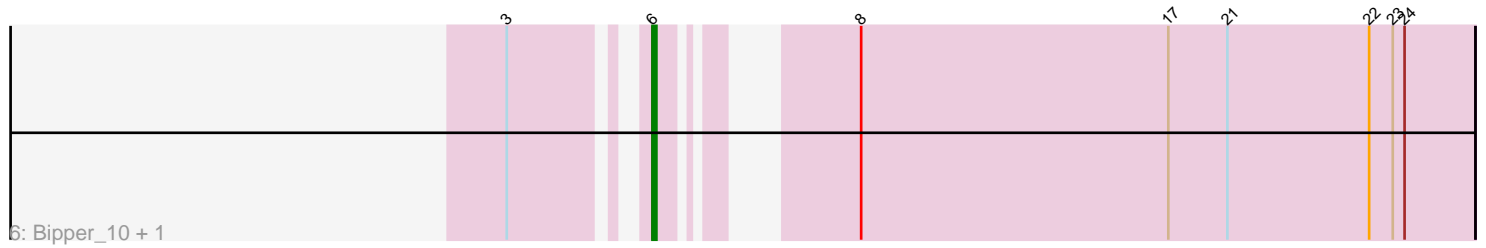
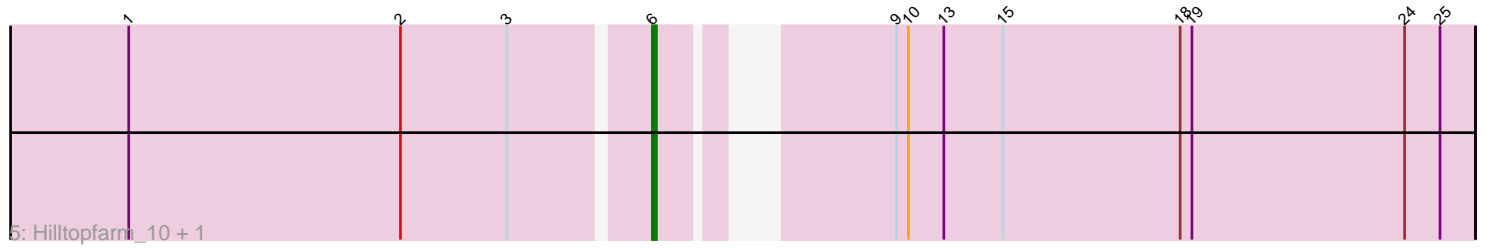
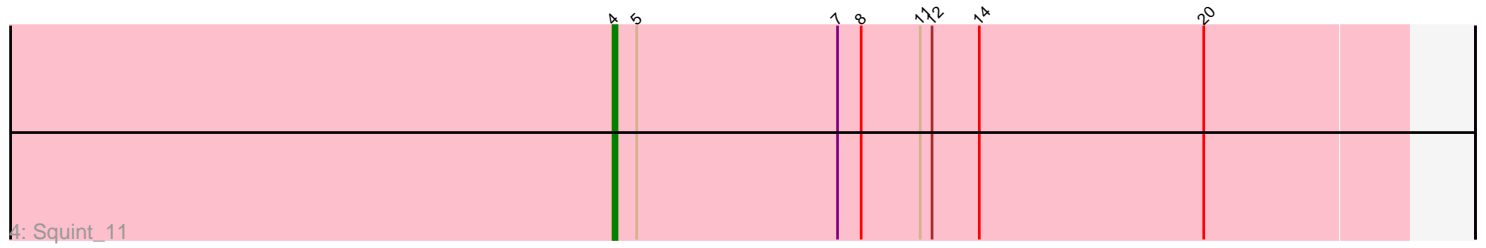
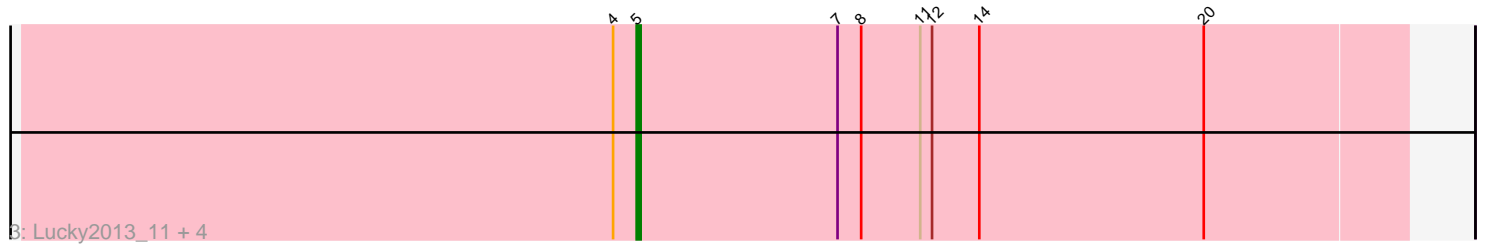
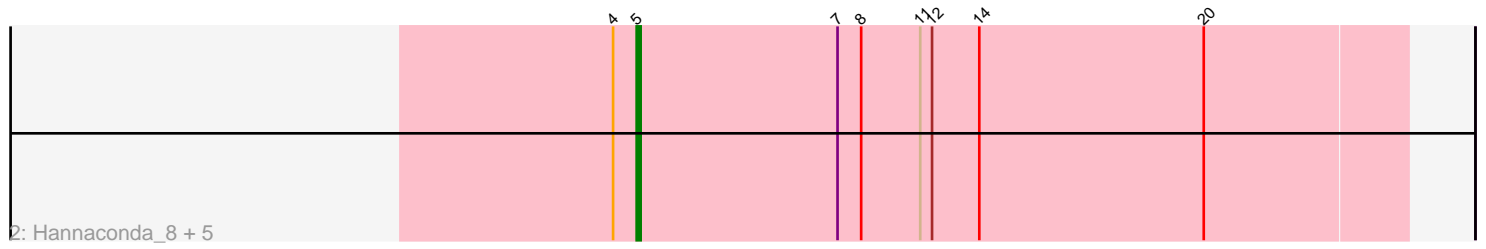
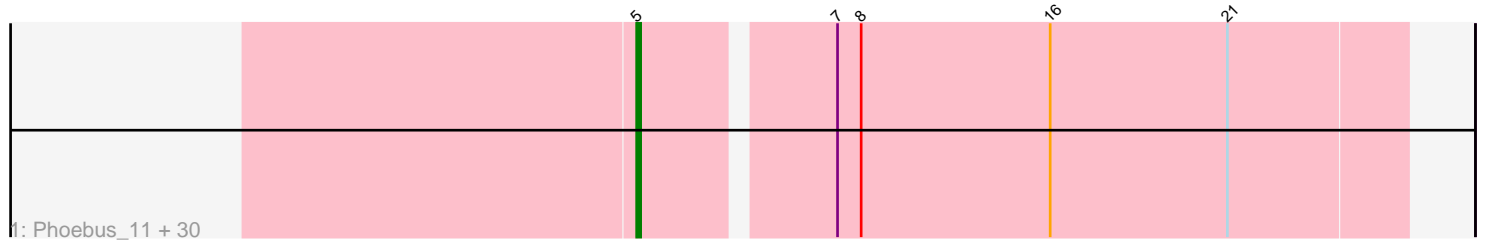


Pham 85862



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 85862 Report

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

Pham number 85862 has 47 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Phoebus_11, Bombitas_8, NihilNomen_10, Ejimix_12, JuicyJay_12, Dove_9, Pound_10, Hughesyang_10, Kalah2_11, Optimus_8, ThreeRngTarjay_10, EricMillard_11, Beem_11, DmpstrDiver_10, Bagrid_9, Klein_11, Zelink_11, BAKA_7, Yeet_9, HokkenD_6, Dallas_10, Wanda_11, Halley_11, Thibault_7, Constella_6, Minerva_10, Odette_10, Schatzie_9, Duke13_7, Bobby_12, Redno2_10
- Track 2 : Hannaconda_8, Superphikiman_11, KashFlow_5, MiaZeal_11, Porcelain_11, Courthouse_11
- Track 3 : Lucky2013_11, Gonephishing_11, Ariel_10, Omega_12, LittleE_10
- Track 4 : Squint_11
- Track 5 : Hilltopfarm_10, Typha_10
- Track 6 : Bipper_10, Cracklewink_10

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 38 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_10, BAKA_7, Bagrid_9, Beem_11, Bobby_12, Bombitas_8, Constella_6, Courthouse_11, Dallas_10, DmpstrDiver_10, Dove_9, Duke13_7, Ejimix_12, EricMillard_11, Gonephishing_11, Halley_11, Hannaconda_8, HokkenD_6, Hughesyang_10, JuicyJay_12, Kalah2_11, KashFlow_5, Klein_11, LittleE_10, Lucky2013_11, MiaZeal_11, Minerva_10, NihilNomen_10, Odette_10, Omega_12, Optimus_8, Phoebus_11, Porcelain_11, Pound_10, Redno2_10, Schatzie_9, Superphikiman_11, Thibault_7, ThreeRngTarjay_10, Wanda_11, Yeet_9, Zelink_11,

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

- Squint_11,

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

- Bipper_10, Cracklewink_10, Hilltopfarm_10, Typha_10,

Summary by start number:

Start 4:

- Found in 12 of 47 (25.5%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Squint_11 (J),

Start 5:

- Found in 43 of 47 (91.5%) of genes in pham
- Manual Annotations of this start: 38 of 43
- Called 97.7% of time when present
- Phage (with cluster) where this start called: Ariel_10 (J), BAKA_7 (J), Bagrid_9 (J), Beem_11 (J), Bobby_12 (J), Bombitas_8 (J), Constella_6 (J), Courthouse_11 (J), Dallas_10 (J), DmpstrDiver_10 (J), Dove_9 (J), Duke13_7 (J), Ejimix_12 (J), EricMillard_11 (J), Gonephishing_11 (J), Halley_11 (J), Hannaconda_8 (J), HokkenD_6 (J), Hughesyang_10 (J), JuicyJay_12 (J), Kalah2_11 (J), KashFlow_5 (J), Klein_11 (J), LittleE_10 (J), Lucky2013_11 (J), MiaZeal_11 (J), Minerva_10 (J), NihilNomen_10 (J), Odette_10 (J), Omega_12 (J), Optimus_8 (J), Phoebus_11 (J), Porcelain_11 (J), Pound_10 (J), Redno2_10 (J), Schatzie_9 (J), Superphikiman_11 (J), Thibault_7 (J), ThreeRngTarjay_10 (J), Wanda_11 (J), Yeet_9 (J), Zelink_11 (J),

Start 6:

- Found in 4 of 47 (8.5%) of genes in pham
- Manual Annotations of this start: 4 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bipper_10 (Y), Cracklewink_10 (Y), Hilltopfarm_10 (Y), Typha_10 (Y),

Summary by clusters:

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

Info for manual annotations of cluster J:

- Start number 4 was manually annotated 1 time for cluster J.
- Start number 5 was manually annotated 38 times for cluster J.

Info for manual annotations of cluster Y:

- Start number 6 was manually annotated 4 times for cluster Y.

Gene Information:

Gene: Ariel_10 Start: 4444, Stop: 4638, Start Num: 5

Candidate Starts for Ariel_10:

(Start: 4 @4438 has 1 MA's), (Start: 5 @4444 has 38 MA's), (7, 4495), (8, 4501), (11, 4516), (12, 4519), (14, 4531), (20, 4588),

Gene: BAKA_7 Start: 5283, Stop: 5471, Start Num: 5

Candidate Starts for BAKA_7:

(Start: 5 @5283 has 38 MA's), (7, 5328), (8, 5334), (16, 5382), (21, 5427),

Gene: Bagrid_9 Start: 5080, Stop: 5268, Start Num: 5

Candidate Starts for Bagrid_9:

(Start: 5 @5080 has 38 MA's), (7, 5125), (8, 5131), (16, 5179), (21, 5224),

Gene: Beem_11 Start: 5646, Stop: 5834, Start Num: 5

Candidate Starts for Beem_11:

(Start: 5 @5646 has 38 MA's), (7, 5691), (8, 5697), (16, 5745), (21, 5790),

Gene: Bipper_10 Start: 6339, Stop: 6527, Start Num: 6

Candidate Starts for Bipper_10:

(3, 6312), (Start: 6 @6339 has 4 MA's), (8, 6372), (17, 6450), (21, 6465), (22, 6501), (23, 6507), (24, 6510),

Gene: Bobby_12 Start: 5373, Stop: 5561, Start Num: 5

Candidate Starts for Bobby_12:

(Start: 5 @5373 has 38 MA's), (7, 5418), (8, 5424), (16, 5472), (21, 5517),

Gene: Bombitas_8 Start: 4955, Stop: 5143, Start Num: 5

Candidate Starts for Bombitas_8:

(Start: 5 @4955 has 38 MA's), (7, 5000), (8, 5006), (16, 5054), (21, 5099),

Gene: Constella_6 Start: 4464, Stop: 4652, Start Num: 5

Candidate Starts for Constella_6:

(Start: 5 @4464 has 38 MA's), (7, 4509), (8, 4515), (16, 4563), (21, 4608),

Gene: Courthouse_11 Start: 5243, Stop: 5437, Start Num: 5

Candidate Starts for Courthouse_11:

(Start: 4 @5237 has 1 MA's), (Start: 5 @5243 has 38 MA's), (7, 5294), (8, 5300), (11, 5315), (12, 5318), (14, 5330), (20, 5387),

Gene: Cracklewink_10 Start: 6339, Stop: 6527, Start Num: 6

Candidate Starts for Cracklewink_10:

(3, 6312), (Start: 6 @6339 has 4 MA's), (8, 6372), (17, 6450), (21, 6465), (22, 6501), (23, 6507), (24, 6510),

Gene: Dallas_10 Start: 5185, Stop: 5373, Start Num: 5

Candidate Starts for Dallas_10:

(Start: 5 @5185 has 38 MA's), (7, 5230), (8, 5236), (16, 5284), (21, 5329),

Gene: DmpstrDiver_10 Start: 5826, Stop: 6014, Start Num: 5

Candidate Starts for DmpstrDiver_10:

(Start: 5 @5826 has 38 MA's), (7, 5871), (8, 5877), (16, 5925), (21, 5970),

Gene: Dove_9 Start: 4954, Stop: 5142, Start Num: 5

Candidate Starts for Dove_9:

(Start: 5 @4954 has 38 MA's), (7, 4999), (8, 5005), (16, 5053), (21, 5098),

Gene: Duke13_7 Start: 5211, Stop: 5399, Start Num: 5

Candidate Starts for Duke13_7:

(Start: 5 @5211 has 38 MA's), (7, 5256), (8, 5262), (16, 5310), (21, 5355),

Gene: Ejimix_12 Start: 6396, Stop: 6584, Start Num: 5

Candidate Starts for Ejimix_12:

(Start: 5 @6396 has 38 MA's), (7, 6441), (8, 6447), (16, 6495), (21, 6540),

Gene: EricMillard_11 Start: 5931, Stop: 6119, Start Num: 5

Candidate Starts for EricMillard_11:

(Start: 5 @5931 has 38 MA's), (7, 5976), (8, 5982), (16, 6030), (21, 6075),

Gene: Gonephishing_11 Start: 5771, Stop: 5965, Start Num: 5

Candidate Starts for Gonephishing_11:

(Start: 4 @5765 has 1 MA's), (Start: 5 @5771 has 38 MA's), (7, 5822), (8, 5828), (11, 5843), (12, 5846), (14, 5858), (20, 5915),

Gene: Halley_11 Start: 5646, Stop: 5834, Start Num: 5

Candidate Starts for Halley_11:

(Start: 5 @5646 has 38 MA's), (7, 5691), (8, 5697), (16, 5745), (21, 5790),

Gene: Hannaconda_8 Start: 3923, Stop: 4117, Start Num: 5

Candidate Starts for Hannaconda_8:

(Start: 4 @3917 has 1 MA's), (Start: 5 @3923 has 38 MA's), (7, 3974), (8, 3980), (11, 3995), (12, 3998), (14, 4010), (20, 4067),

Gene: Hilltopfarm_10 Start: 6326, Stop: 6517, Start Num: 6

Candidate Starts for Hilltopfarm_10:

(1, 6197), (2, 6266), (3, 6293), (Start: 6 @6326 has 4 MA's), (9, 6371), (10, 6374), (13, 6383), (15, 6398), (18, 6443), (19, 6446), (24, 6500), (25, 6509),

Gene: HokkenD_6 Start: 5214, Stop: 5402, Start Num: 5

Candidate Starts for HokkenD_6:

(Start: 5 @5214 has 38 MA's), (7, 5259), (8, 5265), (16, 5313), (21, 5358),

Gene: Hughesyang_10 Start: 5826, Stop: 6014, Start Num: 5

Candidate Starts for Hughesyang_10:

(Start: 5 @5826 has 38 MA's), (7, 5871), (8, 5877), (16, 5925), (21, 5970),

Gene: JuicyJay_12 Start: 6476, Stop: 6664, Start Num: 5

Candidate Starts for JuicyJay_12:

(Start: 5 @6476 has 38 MA's), (7, 6521), (8, 6527), (16, 6575), (21, 6620),

Gene: Kalah2_11 Start: 6245, Stop: 6433, Start Num: 5

Candidate Starts for Kalah2_11:

(Start: 5 @6245 has 38 MA's), (7, 6290), (8, 6296), (16, 6344), (21, 6389),

Gene: KashFlow_5 Start: 3489, Stop: 3683, Start Num: 5

Candidate Starts for KashFlow_5:

(Start: 4 @3483 has 1 MA's), (Start: 5 @3489 has 38 MA's), (7, 3540), (8, 3546), (11, 3561), (12, 3564), (14, 3576), (20, 3633),

Gene: Klein_11 Start: 5222, Stop: 5410, Start Num: 5

Candidate Starts for Klein_11:

(Start: 5 @5222 has 38 MA's), (7, 5267), (8, 5273), (16, 5321), (21, 5366),

Gene: LittleE_10 Start: 5622, Stop: 5816, Start Num: 5

Candidate Starts for LittleE_10:

(Start: 4 @5616 has 1 MA's), (Start: 5 @5622 has 38 MA's), (7, 5673), (8, 5679), (11, 5694), (12, 5697), (14, 5709), (20, 5766),

Gene: Lucky2013_11 Start: 4993, Stop: 5187, Start Num: 5

Candidate Starts for Lucky2013_11:

(Start: 4 @4987 has 1 MA's), (Start: 5 @4993 has 38 MA's), (7, 5044), (8, 5050), (11, 5065), (12, 5068), (14, 5080), (20, 5137),

Gene: MiaZeal_11 Start: 5062, Stop: 5256, Start Num: 5

Candidate Starts for MiaZeal_11:

(Start: 4 @5056 has 1 MA's), (Start: 5 @5062 has 38 MA's), (7, 5113), (8, 5119), (11, 5134), (12, 5137), (14, 5149), (20, 5206),

Gene: Minerva_10 Start: 5705, Stop: 5893, Start Num: 5

Candidate Starts for Minerva_10:

(Start: 5 @5705 has 38 MA's), (7, 5750), (8, 5756), (16, 5804), (21, 5849),

Gene: NihilNomen_10 Start: 5705, Stop: 5893, Start Num: 5

Candidate Starts for NihilNomen_10:

(Start: 5 @5705 has 38 MA's), (7, 5750), (8, 5756), (16, 5804), (21, 5849),

Gene: Odette_10 Start: 5184, Stop: 5372, Start Num: 5

Candidate Starts for Odette_10:

(Start: 5 @5184 has 38 MA's), (7, 5229), (8, 5235), (16, 5283), (21, 5328),

Gene: Omega_12 Start: 6967, Stop: 7161, Start Num: 5

Candidate Starts for Omega_12:

(Start: 4 @6961 has 1 MA's), (Start: 5 @6967 has 38 MA's), (7, 7018), (8, 7024), (11, 7039), (12, 7042), (14, 7054), (20, 7111),

Gene: Optimus_8 Start: 5211, Stop: 5399, Start Num: 5

Candidate Starts for Optimus_8:

(Start: 5 @5211 has 38 MA's), (7, 5256), (8, 5262), (16, 5310), (21, 5355),

Gene: Phoebus_11 Start: 5931, Stop: 6119, Start Num: 5

Candidate Starts for Phoebus_11:

(Start: 5 @5931 has 38 MA's), (7, 5976), (8, 5982), (16, 6030), (21, 6075),

Gene: Porcelain_11 Start: 5062, Stop: 5256, Start Num: 5

Candidate Starts for Porcelain_11:

(Start: 4 @5056 has 1 MA's), (Start: 5 @5062 has 38 MA's), (7, 5113), (8, 5119), (11, 5134), (12, 5137), (14, 5149), (20, 5206),

Gene: Pound_10 Start: 5701, Stop: 5889, Start Num: 5

Candidate Starts for Pound_10:

(Start: 5 @5701 has 38 MA's), (7, 5746), (8, 5752), (16, 5800), (21, 5845),

Gene: Redno2_10 Start: 5416, Stop: 5604, Start Num: 5

Candidate Starts for Redno2_10:

(Start: 5 @5416 has 38 MA's), (7, 5461), (8, 5467), (16, 5515), (21, 5560),

Gene: Schatzie_9 Start: 4955, Stop: 5143, Start Num: 5

Candidate Starts for Schatzie_9:

(Start: 5 @4955 has 38 MA's), (7, 5000), (8, 5006), (16, 5054), (21, 5099),

Gene: Squint_11 Start: 4987, Stop: 5187, Start Num: 4

Candidate Starts for Squint_11:

(Start: 4 @4987 has 1 MA's), (Start: 5 @4993 has 38 MA's), (7, 5044), (8, 5050), (11, 5065), (12, 5068), (14, 5080), (20, 5137),

Gene: Superphikiman_11 Start: 5243, Stop: 5437, Start Num: 5

Candidate Starts for Superphikiman_11:

(Start: 4 @5237 has 1 MA's), (Start: 5 @5243 has 38 MA's), (7, 5294), (8, 5300), (11, 5315), (12, 5318), (14, 5330), (20, 5387),

Gene: Thibault_7 Start: 5211, Stop: 5399, Start Num: 5

Candidate Starts for Thibault_7:

(Start: 5 @5211 has 38 MA's), (7, 5256), (8, 5262), (16, 5310), (21, 5355),

Gene: ThreeRngTarjay_10 Start: 5701, Stop: 5889, Start Num: 5

Candidate Starts for ThreeRngTarjay_10:

(Start: 5 @5701 has 38 MA's), (7, 5746), (8, 5752), (16, 5800), (21, 5845),

Gene: Typha_10 Start: 6296, Stop: 6487, Start Num: 6

Candidate Starts for Typha_10:

(1, 6167), (2, 6236), (3, 6263), (Start: 6 @6296 has 4 MA's), (9, 6341), (10, 6344), (13, 6353), (15, 6368), (18, 6413), (19, 6416), (24, 6470), (25, 6479),

Gene: Wanda_11 Start: 5222, Stop: 5410, Start Num: 5

Candidate Starts for Wanda_11:

(Start: 5 @5222 has 38 MA's), (7, 5267), (8, 5273), (16, 5321), (21, 5366),

Gene: Yeet_9 Start: 4955, Stop: 5143, Start Num: 5

Candidate Starts for Yeet_9:

(Start: 5 @4955 has 38 MA's), (7, 5000), (8, 5006), (16, 5054), (21, 5099),

Gene: Zelink_11 Start: 5729, Stop: 5917, Start Num: 5

Candidate Starts for Zelink_11:

(Start: 5 @5729 has 38 MA's), (7, 5774), (8, 5780), (16, 5828), (21, 5873),