



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 2241 Report

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

Pham number 2241 has 43 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Dallas_24, Hughesyang_23, HokkenD_19, Halley_24, Minerva_24, Odette_23, Klein_24, Constella_19, JuicyJay_26, ThreeRngTarjay_23, Bobby_25, Redno2_23, Schatzie_22, Bagrid_22, Duke13_21, Zelink_25, Ejimix_25, NihilNomen_23, Bombitas_21, Yeet_22, Pound_24, EricMillard_24, Phoebus_24, Beem_24, Kalah2_25, Thibault_20, Dove_23, DmpstrDiver_23
- Track 2 : Wanda_25, BAKA_21, Optimus_22
- Track 3 : Omega_24, Courthouse_22, LittleE_22, Ariel_22, KashFlow_16, Gonephishing_20, Squint_21, Lucky2013_22, Superphikiman_22, Porcelain_22, Hannaconda_19, MiaZeal_22

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

The start number called the most often in the published annotations is 3, it was called in 25 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bagrid_22, Beem_24, Bobby_25, Bombitas_21, Constella_19, Dallas_24, DmpstrDiver_23, Dove_23, Duke13_21, Ejimix_25, EricMillard_24, Halley_24, HokkenD_19, Hughesyang_23, JuicyJay_26, Kalah2_25, Klein_24, Minerva_24, NihilNomen_23, Odette_23, Phoebus_24, Pound_24, Redno2_23, Schatzie_22, Thibault_20, ThreeRngTarjay_23, Yeet_22, Zelink_25,

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

- BAKA_21, Optimus_22, Wanda_25,

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

- Ariel_22, Courthouse_22, Gonephishing_20, Hannaconda_19, KashFlow_16, LittleE_22, Lucky2013_22, MiaZeal_22, Omega_24, Porcelain_22, Squint_21, Superphikiman_22,

Summary by start number:

Start 1:

- Found in 31 of 43 (72.1%) of genes in pham

- Manual Annotations of this start: 3 of 39
- Called 9.7% of time when present
- Phage (with cluster) where this start called: BAKA_21 (J), Optimus_22 (J), Wanda_25 (J),

Start 2:

- Found in 12 of 43 (27.9%) of genes in pham
- Manual Annotations of this start: 11 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_22 (J), Courthouse_22 (J), Gonephishing_20 (J), Hannaconda_19 (J), KashFlow_16 (J), LittleE_22 (J), Lucky2013_22 (J), MiaZeal_22 (J), Omega_24 (J), Porcelain_22 (J), Squint_21 (J), Superphikiman_22 (J),

Start 3:

- Found in 31 of 43 (72.1%) of genes in pham
- Manual Annotations of this start: 25 of 39
- Called 90.3% of time when present
- Phage (with cluster) where this start called: Bagrid_22 (J), Beem_24 (J), Bobby_25 (J), Bombitas_21 (J), Constella_19 (J), Dallas_24 (J), DmpstrDiver_23 (J), Dove_23 (J), Duke13_21 (J), Ejimix_25 (J), EricMillard_24 (J), Halley_24 (J), HokkenD_19 (J), Hughesyang_23 (J), JuicyJay_26 (J), Kalah2_25 (J), Klein_24 (J), Minerva_24 (J), NihilNomen_23 (J), Odette_23 (J), Phoebus_24 (J), Pound_24 (J), Redno2_23 (J), Schatzie_22 (J), Thibault_20 (J), ThreeRngTarjay_23 (J), Yeet_22 (J), Zelink_25 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 3 times for cluster J.
- Start number 2 was manually annotated 11 times for cluster J.
- Start number 3 was manually annotated 25 times for cluster J.

Gene Information:

Gene: Ariel_22 Start: 13270, Stop: 13527, Start Num: 2

Candidate Starts for Ariel_22:

(Start: 2 @13270 has 11 MA's), (5, 13339), (7, 13393), (8, 13438),

Gene: BAKA_21 Start: 15364, Stop: 15633, Start Num: 1

Candidate Starts for BAKA_21:

(Start: 1 @15364 has 3 MA's), (Start: 3 @15376 has 25 MA's), (4, 15403), (6, 15481),

Gene: Bagrid_22 Start: 15165, Stop: 15422, Start Num: 3

Candidate Starts for Bagrid_22:

(Start: 1 @15153 has 3 MA's), (Start: 3 @15165 has 25 MA's), (4, 15192), (6, 15270),

Gene: Beem_24 Start: 15731, Stop: 15988, Start Num: 3

Candidate Starts for Beem_24:

(Start: 1 @15719 has 3 MA's), (Start: 3 @15731 has 25 MA's), (4, 15758), (6, 15836),

Gene: Bobby_25 Start: 15684, Stop: 15941, Start Num: 3
Candidate Starts for Bobby_25:
(Start: 1 @15672 has 3 MA's), (Start: 3 @15684 has 25 MA's), (4, 15711), (6, 15789),

Gene: Bombitas_21 Start: 15041, Stop: 15298, Start Num: 3
Candidate Starts for Bombitas_21:
(Start: 1 @15029 has 3 MA's), (Start: 3 @15041 has 25 MA's), (4, 15068), (6, 15146),

Gene: Constella_19 Start: 14554, Stop: 14811, Start Num: 3
Candidate Starts for Constella_19:
(Start: 1 @14542 has 3 MA's), (Start: 3 @14554 has 25 MA's), (4, 14581), (6, 14659),

Gene: Courthouse_22 Start: 13672, Stop: 13929, Start Num: 2
Candidate Starts for Courthouse_22:
(Start: 2 @13672 has 11 MA's), (5, 13741), (7, 13795), (8, 13840),

Gene: Dallas_24 Start: 15271, Stop: 15528, Start Num: 3
Candidate Starts for Dallas_24:
(Start: 1 @15259 has 3 MA's), (Start: 3 @15271 has 25 MA's), (4, 15298), (6, 15376),

Gene: DmpstrDiver_23 Start: 15907, Stop: 16164, Start Num: 3
Candidate Starts for DmpstrDiver_23:
(Start: 1 @15895 has 3 MA's), (Start: 3 @15907 has 25 MA's), (4, 15934), (6, 16012),

Gene: Dove_23 Start: 15040, Stop: 15297, Start Num: 3
Candidate Starts for Dove_23:
(Start: 1 @15028 has 3 MA's), (Start: 3 @15040 has 25 MA's), (4, 15067), (6, 15145),

Gene: Duke13_21 Start: 15305, Stop: 15562, Start Num: 3
Candidate Starts for Duke13_21:
(Start: 1 @15293 has 3 MA's), (Start: 3 @15305 has 25 MA's), (4, 15332), (6, 15410),

Gene: Ejimix_25 Start: 16481, Stop: 16738, Start Num: 3
Candidate Starts for Ejimix_25:
(Start: 1 @16469 has 3 MA's), (Start: 3 @16481 has 25 MA's), (4, 16508), (6, 16586),

Gene: EricMillard_24 Start: 16017, Stop: 16274, Start Num: 3
Candidate Starts for EricMillard_24:
(Start: 1 @16005 has 3 MA's), (Start: 3 @16017 has 25 MA's), (4, 16044), (6, 16122),

Gene: Gonephishing_20 Start: 13845, Stop: 14102, Start Num: 2
Candidate Starts for Gonephishing_20:
(Start: 2 @13845 has 11 MA's), (5, 13914), (7, 13968), (8, 14013),

Gene: Halley_24 Start: 15730, Stop: 15987, Start Num: 3
Candidate Starts for Halley_24:
(Start: 1 @15718 has 3 MA's), (Start: 3 @15730 has 25 MA's), (4, 15757), (6, 15835),

Gene: Hannaconda_19 Start: 12352, Stop: 12609, Start Num: 2
Candidate Starts for Hannaconda_19:
(Start: 2 @12352 has 11 MA's), (5, 12421), (7, 12475), (8, 12520),

Gene: HokkenD_19 Start: 15300, Stop: 15557, Start Num: 3
Candidate Starts for HokkenD_19:
(Start: 1 @15288 has 3 MA's), (Start: 3 @15300 has 25 MA's), (4, 15327), (6, 15405),

Gene: Hughesyang_23 Start: 15913, Stop: 16170, Start Num: 3
Candidate Starts for Hughesyang_23:
(Start: 1 @15901 has 3 MA's), (Start: 3 @15913 has 25 MA's), (4, 15940), (6, 16018),

Gene: JuicyJay_26 Start: 16564, Stop: 16821, Start Num: 3
Candidate Starts for JuicyJay_26:
(Start: 1 @16552 has 3 MA's), (Start: 3 @16564 has 25 MA's), (4, 16591), (6, 16669),

Gene: Kalah2_25 Start: 16332, Stop: 16589, Start Num: 3
Candidate Starts for Kalah2_25:
(Start: 1 @16320 has 3 MA's), (Start: 3 @16332 has 25 MA's), (4, 16359), (6, 16437),

Gene: KashFlow_16 Start: 11918, Stop: 12175, Start Num: 2
Candidate Starts for KashFlow_16:
(Start: 2 @11918 has 11 MA's), (5, 11987), (7, 12041), (8, 12086),

Gene: Klein_24 Start: 15310, Stop: 15567, Start Num: 3
Candidate Starts for Klein_24:
(Start: 1 @15298 has 3 MA's), (Start: 3 @15310 has 25 MA's), (4, 15337), (6, 15415),

Gene: LittleE_22 Start: 15057, Stop: 15314, Start Num: 2
Candidate Starts for LittleE_22:
(Start: 2 @15057 has 11 MA's), (5, 15126), (7, 15180), (8, 15225),

Gene: Lucky2013_22 Start: 13800, Stop: 14057, Start Num: 2
Candidate Starts for Lucky2013_22:
(Start: 2 @13800 has 11 MA's), (5, 13869), (7, 13923), (8, 13968),

Gene: MiaZeal_22 Start: 13491, Stop: 13748, Start Num: 2
Candidate Starts for MiaZeal_22:
(Start: 2 @13491 has 11 MA's), (5, 13560), (7, 13614), (8, 13659),

Gene: Minerva_24 Start: 15795, Stop: 16052, Start Num: 3
Candidate Starts for Minerva_24:
(Start: 1 @15783 has 3 MA's), (Start: 3 @15795 has 25 MA's), (4, 15822), (6, 15900),

Gene: NihilNomen_23 Start: 15792, Stop: 16049, Start Num: 3
Candidate Starts for NihilNomen_23:
(Start: 1 @15780 has 3 MA's), (Start: 3 @15792 has 25 MA's), (4, 15819), (6, 15897),

Gene: Odette_23 Start: 15273, Stop: 15530, Start Num: 3
Candidate Starts for Odette_23:
(Start: 1 @15261 has 3 MA's), (Start: 3 @15273 has 25 MA's), (4, 15300), (6, 15378),

Gene: Omega_24 Start: 17417, Stop: 17674, Start Num: 2
Candidate Starts for Omega_24:
(Start: 2 @17417 has 11 MA's), (5, 17486), (7, 17540), (8, 17585),

Gene: Optimus_22 Start: 15358, Stop: 15627, Start Num: 1

Candidate Starts for Optimus_22:

(Start: 1 @15358 has 3 MA's), (Start: 3 @15370 has 25 MA's), (4, 15397), (6, 15475),

Gene: Phoebus_24 Start: 16017, Stop: 16274, Start Num: 3

Candidate Starts for Phoebus_24:

(Start: 1 @16005 has 3 MA's), (Start: 3 @16017 has 25 MA's), (4, 16044), (6, 16122),

Gene: Porcelain_22 Start: 13491, Stop: 13748, Start Num: 2

Candidate Starts for Porcelain_22:

(Start: 2 @13491 has 11 MA's), (5, 13560), (7, 13614), (8, 13659),

Gene: Pound_24 Start: 16109, Stop: 16366, Start Num: 3

Candidate Starts for Pound_24:

(Start: 1 @16097 has 3 MA's), (Start: 3 @16109 has 25 MA's), (4, 16136), (6, 16214),

Gene: Redno2_23 Start: 15501, Stop: 15758, Start Num: 3

Candidate Starts for Redno2_23:

(Start: 1 @15489 has 3 MA's), (Start: 3 @15501 has 25 MA's), (4, 15528), (6, 15606),

Gene: Schatzie_22 Start: 15042, Stop: 15299, Start Num: 3

Candidate Starts for Schatzie_22:

(Start: 1 @15030 has 3 MA's), (Start: 3 @15042 has 25 MA's), (4, 15069), (6, 15147),

Gene: Squint_21 Start: 13618, Stop: 13875, Start Num: 2

Candidate Starts for Squint_21:

(Start: 2 @13618 has 11 MA's), (5, 13687), (7, 13741), (8, 13786),

Gene: Superphikiman_22 Start: 13672, Stop: 13929, Start Num: 2

Candidate Starts for Superphikiman_22:

(Start: 2 @13672 has 11 MA's), (5, 13741), (7, 13795), (8, 13840),

Gene: Thibault_20 Start: 15301, Stop: 15558, Start Num: 3

Candidate Starts for Thibault_20:

(Start: 1 @15289 has 3 MA's), (Start: 3 @15301 has 25 MA's), (4, 15328), (6, 15406),

Gene: ThreeRngTarjay_23 Start: 15867, Stop: 16124, Start Num: 3

Candidate Starts for ThreeRngTarjay_23:

(Start: 1 @15855 has 3 MA's), (Start: 3 @15867 has 25 MA's), (4, 15894), (6, 15972),

Gene: Wanda_25 Start: 15298, Stop: 15567, Start Num: 1

Candidate Starts for Wanda_25:

(Start: 1 @15298 has 3 MA's), (Start: 3 @15310 has 25 MA's), (4, 15337), (6, 15415),

Gene: Yeet_22 Start: 15043, Stop: 15300, Start Num: 3

Candidate Starts for Yeet_22:

(Start: 1 @15031 has 3 MA's), (Start: 3 @15043 has 25 MA's), (4, 15070), (6, 15148),

Gene: Zelink_25 Start: 15895, Stop: 16152, Start Num: 3

Candidate Starts for Zelink_25:

(Start: 1 @15883 has 3 MA's), (Start: 3 @15895 has 25 MA's), (4, 15922), (6, 16000),