



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 3556 Report

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

Pham number 3556 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Shida_14, Bora_14, Catdawg_13, Firecracker_14, Corndog_16, Wildflower_14, Murai_14, Krili_14, Schuy_14, YungJamal_15, Smooch_15, Vorrrps_14, Familton_14, Ryadel_16, Mori_14, JangDynasty_13, Zakhe101_15, MadKillah_15, Alkhayr_14, NiebruSaylor_14, TelAviv_13, Winget_14, FoulBall_13, SchoolBus_13, Idergollasper_13
- Track 2 : Blessica_14
- Track 3 : Dylan_14, Ashwin_15

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 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr_14, Ashwin_15, Blessica_14, Bora_14, Catdawg_13, Corndog_16, Dylan_14, Familton_14, Firecracker_14, FoulBall_13, Idergollasper_13, JangDynasty_13, Krili_14, MadKillah_15, Mori_14, Murai_14, NiebruSaylor_14, Ryadel_16, SchoolBus_13, Schuy_14, Shida_14, Smooch_15, TelAviv_13, Vorrrps_14, Wildflower_14, Winget_14, YungJamal_15, Zakhe101_15,

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

-

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

-

Summary by start number:

Start 5:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_14 (O), Ashwin_15 (O), Blessica_14 (O), Bora_14 (O), Catdawg_13 (O), Corndog_16 (O), Dylan_14 (O),

Familton_14 (O), Firecracker_14 (O), FoulBall_13 (O), Idergollasper_13 (O), JangDynasty_13 (O), Krili_14 (O), MadKillah_15 (O), Mori_14 (O), Murai_14 (O), NiebruSaylor_14 (O), Ryadel_16 (O), SchoolBus_13 (O), Schuy_14 (O), Shida_14 (O), Smooch_15 (O), TelAviv_13 (O), Vorrps_14 (O), Wildflower_14 (O), Winget_14 (O), YungJamal_15 (O), Zakhe101_15 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

•Start number 5 was manually annotated 22 times for cluster O.

Gene Information:

Gene: Alkhayr_14 Start: 5824, Stop: 5979, Start Num: 5

Candidate Starts for Alkhayr_14:

(1, 5620), (3, 5749), (4, 5803), (Start: 5 @5824 has 22 MA's), (6, 5827), (7, 5830), (8, 5848), (9, 5875), (10, 5941),

Gene: Ashwin_15 Start: 6059, Stop: 6214, Start Num: 5

Candidate Starts for Ashwin_15:

(3, 5984), (4, 6038), (Start: 5 @6059 has 22 MA's), (6, 6062), (7, 6065), (8, 6083), (9, 6110), (10, 6176),

Gene: Blessica_14 Start: 5890, Stop: 6045, Start Num: 5

Candidate Starts for Blessica_14:

(2, 5797), (Start: 5 @5890 has 22 MA's), (6, 5893), (7, 5896), (8, 5914), (9, 5941), (10, 6007),

Gene: Bora_14 Start: 5857, Stop: 6012, Start Num: 5

Candidate Starts for Bora_14:

(1, 5653), (3, 5782), (4, 5836), (Start: 5 @5857 has 22 MA's), (6, 5860), (7, 5863), (8, 5881), (9, 5908), (10, 5974),

Gene: Catdawg_13 Start: 5496, Stop: 5651, Start Num: 5

Candidate Starts for Catdawg_13:

(1, 5292), (3, 5421), (4, 5475), (Start: 5 @5496 has 22 MA's), (6, 5499), (7, 5502), (8, 5520), (9, 5547), (10, 5613),

Gene: Corndog_16 Start: 6171, Stop: 6326, Start Num: 5

Candidate Starts for Corndog_16:

(1, 5967), (3, 6096), (4, 6150), (Start: 5 @6171 has 22 MA's), (6, 6174), (7, 6177), (8, 6195), (9, 6222), (10, 6288),

Gene: Dylan_14 Start: 6059, Stop: 6214, Start Num: 5

Candidate Starts for Dylan_14:

(3, 5984), (4, 6038), (Start: 5 @6059 has 22 MA's), (6, 6062), (7, 6065), (8, 6083), (9, 6110), (10, 6176),

Gene: Familton_14 Start: 5497, Stop: 5652, Start Num: 5

Candidate Starts for Familton_14:

(1, 5293), (3, 5422), (4, 5476), (Start: 5 @5497 has 22 MA's), (6, 5500), (7, 5503), (8, 5521), (9, 5548), (10, 5614),

Gene: Firecracker_14 Start: 5792, Stop: 5947, Start Num: 5

Candidate Starts for Firecracker_14:

(1, 5588), (3, 5717), (4, 5771), (Start: 5 @5792 has 22 MA's), (6, 5795), (7, 5798), (8, 5816), (9, 5843), (10, 5909),

Gene: FoulBall_13 Start: 5497, Stop: 5652, Start Num: 5

Candidate Starts for FoulBall_13:

(1, 5293), (3, 5422), (4, 5476), (Start: 5 @5497 has 22 MA's), (6, 5500), (7, 5503), (8, 5521), (9, 5548), (10, 5614),

Gene: Idergollasper_13 Start: 5497, Stop: 5652, Start Num: 5

Candidate Starts for Idergollasper_13:

(1, 5293), (3, 5422), (4, 5476), (Start: 5 @5497 has 22 MA's), (6, 5500), (7, 5503), (8, 5521), (9, 5548), (10, 5614),

Gene: JangDynasty_13 Start: 5586, Stop: 5741, Start Num: 5

Candidate Starts for JangDynasty_13:

(1, 5382), (3, 5511), (4, 5565), (Start: 5 @5586 has 22 MA's), (6, 5589), (7, 5592), (8, 5610), (9, 5637), (10, 5703),

Gene: Krili_14 Start: 5825, Stop: 5980, Start Num: 5

Candidate Starts for Krili_14:

(1, 5621), (3, 5750), (4, 5804), (Start: 5 @5825 has 22 MA's), (6, 5828), (7, 5831), (8, 5849), (9, 5876), (10, 5942),

Gene: MadKillah_15 Start: 5846, Stop: 6001, Start Num: 5

Candidate Starts for MadKillah_15:

(1, 5642), (3, 5771), (4, 5825), (Start: 5 @5846 has 22 MA's), (6, 5849), (7, 5852), (8, 5870), (9, 5897), (10, 5963),

Gene: Mori_14 Start: 5685, Stop: 5840, Start Num: 5

Candidate Starts for Mori_14:

(1, 5481), (3, 5610), (4, 5664), (Start: 5 @5685 has 22 MA's), (6, 5688), (7, 5691), (8, 5709), (9, 5736), (10, 5802),

Gene: Murai_14 Start: 5685, Stop: 5840, Start Num: 5

Candidate Starts for Murai_14:

(1, 5481), (3, 5610), (4, 5664), (Start: 5 @5685 has 22 MA's), (6, 5688), (7, 5691), (8, 5709), (9, 5736), (10, 5802),

Gene: NiebruSaylor_14 Start: 5685, Stop: 5840, Start Num: 5

Candidate Starts for NiebruSaylor_14:

(1, 5481), (3, 5610), (4, 5664), (Start: 5 @5685 has 22 MA's), (6, 5688), (7, 5691), (8, 5709), (9, 5736), (10, 5802),

Gene: Ryadel_16 Start: 6279, Stop: 6434, Start Num: 5

Candidate Starts for Ryadel_16:

(1, 6075), (3, 6204), (4, 6258), (Start: 5 @6279 has 22 MA's), (6, 6282), (7, 6285), (8, 6303), (9, 6330), (10, 6396),

Gene: SchoolBus_13 Start: 5497, Stop: 5652, Start Num: 5

Candidate Starts for SchoolBus_13:

(1, 5293), (3, 5422), (4, 5476), (Start: 5 @5497 has 22 MA's), (6, 5500), (7, 5503), (8, 5521), (9, 5548), (10, 5614),

Gene: Schuy_14 Start: 5846, Stop: 6001, Start Num: 5

Candidate Starts for Schuy_14:

(1, 5642), (3, 5771), (4, 5825), (Start: 5 @5846 has 22 MA's), (6, 5849), (7, 5852), (8, 5870), (9, 5897), (10, 5963),

Gene: Shida_14 Start: 5751, Stop: 5906, Start Num: 5

Candidate Starts for Shida_14:

(1, 5547), (3, 5676), (4, 5730), (Start: 5 @5751 has 22 MA's), (6, 5754), (7, 5757), (8, 5775), (9, 5802), (10, 5868),

Gene: Smooch_15 Start: 6015, Stop: 6170, Start Num: 5

Candidate Starts for Smooch_15:

(1, 5811), (3, 5940), (4, 5994), (Start: 5 @6015 has 22 MA's), (6, 6018), (7, 6021), (8, 6039), (9, 6066), (10, 6132),

Gene: TelAviv_13 Start: 5494, Stop: 5649, Start Num: 5

Candidate Starts for TelAviv_13:

(1, 5290), (3, 5419), (4, 5473), (Start: 5 @5494 has 22 MA's), (6, 5497), (7, 5500), (8, 5518), (9, 5545), (10, 5611),

Gene: Vorrrps_14 Start: 5685, Stop: 5840, Start Num: 5

Candidate Starts for Vorrrps_14:

(1, 5481), (3, 5610), (4, 5664), (Start: 5 @5685 has 22 MA's), (6, 5688), (7, 5691), (8, 5709), (9, 5736), (10, 5802),

Gene: Wildflower_14 Start: 5711, Stop: 5866, Start Num: 5

Candidate Starts for Wildflower_14:

(1, 5507), (3, 5636), (4, 5690), (Start: 5 @5711 has 22 MA's), (6, 5714), (7, 5717), (8, 5735), (9, 5762), (10, 5828),

Gene: Winget_14 Start: 5750, Stop: 5905, Start Num: 5

Candidate Starts for Winget_14:

(1, 5546), (3, 5675), (4, 5729), (Start: 5 @5750 has 22 MA's), (6, 5753), (7, 5756), (8, 5774), (9, 5801), (10, 5867),

Gene: YungJamal_15 Start: 6051, Stop: 6206, Start Num: 5

Candidate Starts for YungJamal_15:

(1, 5847), (3, 5976), (4, 6030), (Start: 5 @6051 has 22 MA's), (6, 6054), (7, 6057), (8, 6075), (9, 6102), (10, 6168),

Gene: Zakhe101_15 Start: 6063, Stop: 6218, Start Num: 5

Candidate Starts for Zakhe101_15:

(1, 5859), (3, 5988), (4, 6042), (Start: 5 @6063 has 22 MA's), (6, 6066), (7, 6069), (8, 6087), (9, 6114), (10, 6180),