

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 216377 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216377 has 35 members, 5 are drafts.

Phages represented in each track:

• Track 1 : Causa 164

Track 2 : StAugustine_156

Track 3 : Thonko_51

Track 4: Shida_16, Bora_16, KingPhillip3_15, FoulBall_15, Ryadel_18,

Wogge42_17, Schuy_17, JangDynasty_15, Zakhe101_17, Alkhayr_16, Zebo_15
• Track 5: Catdawg_15, Firecracker_16, Corndog_18, Wildflower_16, Murai_16,

Track 5: Catdawg_15, Firecracker_16, Corndog_18, Wildflower_16, Murai_16
 Blessica_16, Krili_16, Dylan_16, YungJamal_17, Smooch_17, Familton_16,
 Vorrps_16, Mori_16, NiebruSaylor_16, Ashwin_17, TelAviv_15, MadKillah_17,

SchoolBus_15, Idergollasper 15

Track 6 : Winget_16

• Track 7 : Vagabond 16

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

The start number called the most often in the published annotations is 1, it was called in 19 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Ashwin_17, Blessica_16, Catdawg_15, Corndog_18, Dylan_16, Familton_16, Firecracker_16, Idergollasper_15, Krili_16, MadKillah_17, Mori_16, Murai_16, NiebruSaylor_16, SchoolBus_15, Smooch_17, TelAviv_15, Vorrps_16, Wildflower_16, YungJamal_17,

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

• Alkhayr_16, Bora_16, FoulBall_15, JangDynasty_15, KingPhillip3_15, Ryadel_18, Schuy_17, Shida_16, Wogge42_17, Zakhe101_17, Zebo_15,

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

Causa_164, StAugustine_156, Thonko_51, Vagabond_16, Winget_16,

Summary by start number:

Start 1:

• Found in 30 of 35 (85.7%) of genes in pham

- Manual Annotations of this start: 19 of 30
- Called 63.3% of time when present
- Phage (with cluster) where this start called: Ashwin_17 (O), Blessica_16 (O), Catdawg_15 (O), Corndog_18 (O), Dylan_16 (O), Familton_16 (O), Firecracker_16 (O), Idergollasper_15 (O), Krili_16 (O), MadKillah_17 (O), Mori_16 (O), Murai_16 (O), NiebruSaylor_16 (O), SchoolBus_15 (O), Smooch_17 (O), TelAviv_15 (O), Vorrps_16 (O), Wildflower_16 (O), YungJamal_17 (O),

Start 2:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Winget_16 (O),

Start 4:

- Found in 2 of 35 (5.7%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_164 (AI), StAugustine_156 (AI),

Start 5:

- Found in 33 of 35 (94.3%) of genes in pham
- Manual Annotations of this start: 9 of 30
- Called 39.4% of time when present
- Phage (with cluster) where this start called: Alkhayr_16 (O), Bora_16 (O), FoulBall_15 (O), JangDynasty_15 (O), KingPhillip3_15 (O), Ryadel_18 (O), Schuy_17 (O), Shida_16 (O), Thonko_51 (B8), Vagabond_16 (O), Wogge42_17 (O), Zakhe101_17 (O), Zebo_15 (O),

Summary by clusters:

There are 3 clusters represented in this pham: Al, B8, O,

Info for manual annotations of cluster Al:

•Start number 4 was manually annotated 1 time for cluster Al.

Info for manual annotations of cluster B8:

•Start number 5 was manually annotated 1 time for cluster B8.

Info for manual annotations of cluster O:

- •Start number 1 was manually annotated 19 times for cluster O.
- •Start number 2 was manually annotated 1 time for cluster O.
- •Start number 5 was manually annotated 8 times for cluster O.

Gene Information:

Gene: Alkhayr 16 Start: 6826, Stop: 7140, Start Num: 5

Candidate Starts for Alkhavr 16:

(Start: 1 @6766 has 19 MA's), (Start: 5 @6826 has 9 MA's), (9, 7015), (11, 7045),

Gene: Ashwin_17 Start: 6986, Stop: 7360, Start Num: 1

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Candidate Starts for Ashwin 17:
(Start: 1 @6986 has 19 MA's), (Start: 5 @7046 has 9 MA's), (9, 7235), (11, 7265),
Gene: Blessica_16 Start: 6789, Stop: 7163, Start Num: 1
Candidate Starts for Blessica_16:
(Start: 1 @6789 has 19 MA's), (Start: 5 @6849 has 9 MA's), (9, 7038), (11, 7068),
Gene: Bora 16 Start: 6856, Stop: 7170, Start Num: 5
Candidate Starts for Bora_16:
(Start: 1 @6796 has 19 MA's), (Start: 5 @6856 has 9 MA's), (9, 7045), (11, 7075),
Gene: Catdawg_15 Start: 6395, Stop: 6769, Start Num: 1
Candidate Starts for Catdawg_15:
(Start: 1 @6395 has 19 MA's), (Start: 5 @6455 has 9 MA's), (9, 6644), (11, 6674),
Gene: Causa_164 Start: 89550, Stop: 89215, Start Num: 4
Candidate Starts for Causa 164:
(Start: 4 @ 89550 has 1 MA's), (8, 89337), (10, 89331), (11, 89304),
Gene: Corndog_18 Start: 7098, Stop: 7472, Start Num: 1
Candidate Starts for Corndog_18:
(Start: 1 @7098 has 19 MA's), (Start: 5 @7158 has 9 MA's), (9, 7347), (11, 7377),
Gene: Dylan_16 Start: 6986, Stop: 7360, Start Num: 1
Candidate Starts for Dylan_16:
(Start: 1 @6986 has 19 MA's), (Start: 5 @7046 has 9 MA's), (9, 7235), (11, 7265),
Gene: Familton 16 Start: 6396, Stop: 6770, Start Num: 1
Candidate Starts for Familton_16:
(Start: 1 @6396 has 19 MA's), (Start: 5 @6456 has 9 MA's), (9, 6645), (11, 6675),
Gene: Firecracker_16 Start: 6719, Stop: 7093, Start Num: 1
Candidate Starts for Firecracker 16:
(Start: 1 @6719 has 19 MA's), (Start: 5 @6779 has 9 MA's), (9, 6968), (11, 6998),
Gene: FoulBall_15 Start: 6456, Stop: 6770, Start Num: 5
Candidate Starts for FoulBall_15:
(Start: 1 @6396 has 19 MA's), (Start: 5 @6456 has 9 MA's), (9, 6645), (11, 6675),
Gene: Idergollasper_15 Start: 6396, Stop: 6770, Start Num: 1
Candidate Starts for Idergollasper 15:
(Start: 1 @6396 has 19 MA's), (Start: 5 @6456 has 9 MA's), (9, 6645), (11, 6675),
Gene: JangDynasty_15 Start: 6545, Stop: 6859, Start Num: 5
Candidate Starts for JangDynasty_15:
(Start: 1 @6485 has 19 MA's), (Start: 5 @6545 has 9 MA's), (9, 6734), (11, 6764),
Gene: KingPhillip3_15 Start: 6456, Stop: 6770, Start Num: 5
Candidate Starts for KingPhillip3_15:
(Start: 1 @6396 has 19 MA's), (Start: 5 @6456 has 9 MA's), (9, 6645), (11, 6675),
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Gene: Krili 16 Start: 6755, Stop: 7129, Start Num: 1

Candidate Starts for Krili_16:

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(Start: 1 @6755 has 19 MA's), (Start: 5 @6815 has 9 MA's), (9, 7004), (11, 7034),
Gene: MadKillah_17 Start: 6788, Stop: 7162, Start Num: 1
Candidate Starts for MadKillah_17:
(Start: 1 @6788 has 19 MA's), (Start: 5 @6848 has 9 MA's), (9, 7037), (11, 7067),
Gene: Mori_16 Start: 6627, Stop: 7001, Start Num: 1
Candidate Starts for Mori 16:
(Start: 1 @6627 has 19 MA's), (Start: 5 @6687 has 9 MA's), (9, 6876), (11, 6906),
Gene: Murai 16 Start: 6627, Stop: 7001, Start Num: 1
Candidate Starts for Murai 16:
(Start: 1 @6627 has 19 MA's), (Start: 5 @6687 has 9 MA's), (9, 6876), (11, 6906),
Gene: NiebruSaylor_16 Start: 6627, Stop: 7001, Start Num: 1
Candidate Starts for NiebruSaylor_16:
(Start: 1 @6627 has 19 MA's), (Start: 5 @6687 has 9 MA's), (9, 6876), (11, 6906),
Gene: Ryadel_18 Start: 7269, Stop: 7583, Start Num: 5
Candidate Starts for Ryadel_18:
(Start: 1 @7209 has 19 MA's), (Start: 5 @7269 has 9 MA's), (9, 7458), (11, 7488),
Gene: SchoolBus_15 Start: 6396, Stop: 6770, Start Num: 1
Candidate Starts for SchoolBus_15:
(Start: 1 @6396 has 19 MA's), (Start: 5 @6456 has 9 MA's), (9, 6645), (11, 6675),
Gene: Schuy_17 Start: 6848, Stop: 7162, Start Num: 5
Candidate Starts for Schuy 17:
(Start: 1 @6788 has 19 MA's), (Start: 5 @6848 has 9 MA's), (9, 7037), (11, 7067),
Gene: Shida_16 Start: 6753, Stop: 7067, Start Num: 5
Candidate Starts for Shida_16:
(Start: 1 @6693 has 19 MA's), (Start: 5 @6753 has 9 MA's), (9, 6942), (11, 6972),
Gene: Smooch_17 Start: 6942, Stop: 7316, Start Num: 1
Candidate Starts for Smooch_17:
(Start: 1 @6942 has 19 MA's), (Start: 5 @7002 has 9 MA's), (9, 7191), (11, 7221),
Gene: StAugustine 156 Start: 90648, Stop: 90313, Start Num: 4
Candidate Starts for StAugustine_156:
(3, 90651), (Start: 4 @ 90648 has 1 MA's), (8, 90435), (10, 90429), (11, 90402), (12, 90393),
Gene: TelAviv_15 Start: 6393, Stop: 6767, Start Num: 1
Candidate Starts for TelAviv 15:
(Start: 1 @6393 has 19 MA's), (Start: 5 @6453 has 9 MA's), (9, 6642), (11, 6672),
Gene: Thonko_51 Start: 44134, Stop: 43847, Start Num: 5
Candidate Starts for Thonko_51:
(Start: 5 @ 44134 has 9 MA's), (6, 44053), (7, 44032), (12, 43909), (13, 43858),
Gene: Vagabond_16 Start: 6730, Stop: 7044, Start Num: 5
Candidate Starts for Vagabond 16:
(Start: 2 @6688 has 1 MA's), (Start: 5 @6730 has 9 MA's), (9, 6919), (11, 6949),
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Gene: Vorrps_16 Start: 6627, Stop: 7001, Start Num: 1

Candidate Starts for Vorrps_16:

(Start: 1 @6627 has 19 MA's), (Start: 5 @6687 has 9 MA's), (9, 6876), (11, 6906),

Gene: Wildflower_16 Start: 6650, Stop: 7024, Start Num: 1

Candidate Starts for Wildflower_16:

(Start: 1 @6650 has 19 MA's), (Start: 5 @6710 has 9 MA's), (9, 6899), (11, 6929),

Gene: Winget_16 Start: 6687, Stop: 7043, Start Num: 2

Candidate Starts for Winget_16:

(Start: 2 @6687 has 1 MA's), (Start: 5 @6729 has 9 MA's), (9, 6918), (11, 6948),

Gene: Wogge42_17 Start: 6818, Stop: 7132, Start Num: 5

Candidate Starts for Wogge42_17:

(Start: 1 @6758 has 19 MA's), (Start: 5 @6818 has 9 MA's), (9, 7007), (11, 7037),

Gene: YungJamal_17 Start: 6978, Stop: 7352, Start Num: 1

Candidate Starts for YungJamal_17:

(Start: 1 @6978 has 19 MA's), (Start: 5 @7038 has 9 MA's), (9, 7227), (11, 7257),

Gene: Zakhe101_17 Start: 7050, Stop: 7364, Start Num: 5

Candidate Starts for Zakhe101_17:

(Start: 1 @ 6990 has 19 MA's), (Start: 5 @ 7050 has 9 MA's), (9, 7239), (11, 7269),

Gene: Zebo_15 Start: 6456, Stop: 6770, Start Num: 5

Candidate Starts for Zebo_15:

(Start: 1 @6396 has 19 MA's), (Start: 5 @6456 has 9 MA's), (9, 6645), (11, 6675),