

Pham 196606



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 196606 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196606 has 50 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Viceroy\_94, Jehoshaphat\_97, Namago\_97, DonaldDuck\_97, Rudy\_93, Grassboy\_100, Kyva\_99, Zagie\_97, SallyK\_97, Lonelysoil\_93, Sillytadpoles\_98, Teehee\_96, Llemily\_97, Zhafia\_101, Quammi\_95
- Track 2 : Statler\_100
- Track 3 : RubyRalph\_95, SadLad\_96
- Track 4 : AluminumJesus\_92, Gazebo\_94, Blab\_92
- Track 5 : Pepe25\_97
- Track 6 : FrankDeliGuy\_95, Rowlf\_92
- Track 7 : EverythinBagel\_95
- Track 8 : Romm\_103, Kelcole\_100, RobinRose\_103, Tempo\_102
- Track 9 : Judebell\_95, BabyDotz\_93
- Track 10 : Fregley\_101
- Track 11 : BirdInFrench\_99, Wilca\_99
- Track 12 : OneinaGillian\_98
- Track 13 : MorillMayhem\_94
- Track 14 : Hyperion\_94, Mashley\_94
- Track 15 : Fizzles\_93
- Track 16 : StrawberryJamm\_101
- Track 17 : Phinky\_100
- Track 18 : Casend\_96
- Track 19 : Wayne3\_97, Wheelie\_95, Phabia\_95
- Track 20 : Nike\_93
- Track 21 : Altheas\_98
- Track 22 : Tissue\_95
- Track 23 : Squash\_97
- Track 24 : Fransoyer\_95

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

The start number called the most often in the published annotations is 18, it was called in 35 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Altheas\_98, AluminumJesus\_92, BabyDotz\_93, BirdInFrench\_99, Blab\_92, Casend\_96, DonaldDuck\_97, EverythinBagel\_95, Fizzles\_93, Fransoyer\_95, Fregley\_101, Gazebo\_94, Grassboy\_100, Hyperion\_94, Jehoshaphat\_97, Judebell\_95, Kelcole\_100, Kyva\_99, Llemily\_97, Lonelysoil\_93, Mashley\_94, MorillMayhem\_94, Namago\_97, Nike\_93, OneinaGillian\_98, Pepe25\_97, Phabia\_95, Phinky\_100, Quammi\_95, RobinRose\_103, Romm\_103, RubyRalph\_95, Rudy\_93, SadLad\_96, SallyK\_97, Sillytadpoles\_98, Squash\_97, Statler\_100, StrawberryJamm\_101, Teehee\_96, Tempo\_102, Tissue\_95, Viceroy\_94, Wayne3\_97, Wheelie\_95, Wilca\_99, Zagie\_97, Zhafia\_101,

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

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

- FrankDeliGuy\_95, Rowlf\_92,

### Summary by start number:

Start 17:

- Found in 2 of 50 ( 4.0% ) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FrankDeliGuy\_95 (EG), Rowlf\_92 (EG),

Start 18:

- Found in 48 of 50 ( 96.0% ) of genes in pham
- Manual Annotations of this start: 35 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Altheas\_98 (EG), AluminumJesus\_92 (EG), BabyDotz\_93 (EG), BirdInFrench\_99 (EG), Blab\_92 (EG), Casend\_96 (EG), DonaldDuck\_97 (EG), EverythinBagel\_95 (EG), Fizzles\_93 (EG), Fransoyer\_95 (EG), Fregley\_101 (EG), Gazebo\_94 (EG), Grassboy\_100 (EG), Hyperion\_94 (EG), Jehoshaphat\_97 (EG), Judebell\_95 (EG), Kelcole\_100 (EG), Kyva\_99 (EG), Llemily\_97 (EG), Lonelysoil\_93 (EG), Mashley\_94 (EG), MorillMayhem\_94 (EG), Namago\_97 (EG), Nike\_93 (EG), OneinaGillian\_98 (EG), Pepe25\_97 (EG), Phabia\_95 (EG), Phinky\_100 (EG), Quammi\_95 (EG), RobinRose\_103 (EG), Romm\_103 (EG), RubyRalph\_95 (EG), Rudy\_93 (EG), SadLad\_96 (EG), SallyK\_97 (EG), Sillytadpoles\_98 (EG), Squash\_97 (EG), Statler\_100 (EG), StrawberryJamm\_101 (EG), Teehee\_96 (EG), Tempo\_102 (EG), Tissue\_95 (EG), Viceroy\_94 (EG), Wayne3\_97 (EG), Wheelie\_95 (EG), Wilca\_99 (EG), Zagie\_97 (EG), Zhafia\_101 (EG),

### Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 17 was manually annotated 1 time for cluster EG.
- Start number 18 was manually annotated 35 times for cluster EG.

### Gene Information:

Gene: Altheas\_98 Start: 58956, Stop: 58630, Start Num: 18

Candidate Starts for Altheas\_98:

(Start: 18 @58956 has 35 MA's), (23, 58854),

Gene: AluminumJesus\_92 Start: 57388, Stop: 57038, Start Num: 18

Candidate Starts for AluminumJesus\_92:

(Start: 18 @57388 has 35 MA's), (22, 57295), (23, 57259),

Gene: BabyDotz\_93 Start: 59232, Stop: 58912, Start Num: 18

Candidate Starts for BabyDotz\_93:

(Start: 18 @59232 has 35 MA's), (21, 59169), (23, 59130), (26, 59085), (29, 58983),

Gene: BirdInFrench\_99 Start: 59663, Stop: 59343, Start Num: 18

Candidate Starts for BirdInFrench\_99:

(Start: 18 @59663 has 35 MA's), (20, 59603), (23, 59561),

Gene: Blab\_92 Start: 57961, Stop: 57611, Start Num: 18

Candidate Starts for Blab\_92:

(Start: 18 @57961 has 35 MA's), (22, 57868), (23, 57832),

Gene: Casend\_96 Start: 58580, Stop: 58188, Start Num: 18

Candidate Starts for Casend\_96:

(Start: 18 @58580 has 35 MA's), (23, 58475), (25, 58445), (30, 58307), (32, 58280), (33, 58259),

Gene: DonaldDuck\_97 Start: 57965, Stop: 57642, Start Num: 18

Candidate Starts for DonaldDuck\_97:

(Start: 18 @57965 has 35 MA's), (23, 57869), (24, 57845), (30, 57701),

Gene: EverythinBagel\_95 Start: 57764, Stop: 57441, Start Num: 18

Candidate Starts for EverythinBagel\_95:

(Start: 18 @57764 has 35 MA's), (23, 57668), (24, 57644), (30, 57500), (32, 57473),

Gene: Fizzles\_93 Start: 57979, Stop: 57638, Start Num: 18

Candidate Starts for Fizzles\_93:

(Start: 18 @57979 has 35 MA's), (23, 57877), (28, 57748),

Gene: FrankDeliGuy\_95 Start: 58269, Stop: 57925, Start Num: 17

Candidate Starts for FrankDeliGuy\_95:

(16, 58284), (Start: 17 @58269 has 1 MA's), (21, 58182), (23, 58143), (26, 58098), (29, 57996),

Gene: Fransoyer\_95 Start: 59536, Stop: 59192, Start Num: 18

Candidate Starts for Fransoyer\_95:

(15, 59644), (Start: 18 @59536 has 35 MA's), (19, 59488), (20, 59476), (25, 59401), (29, 59278), (31, 59257),

Gene: Fregley\_101 Start: 59890, Stop: 59573, Start Num: 18

Candidate Starts for Fregley\_101:

(4, 60133), (Start: 18 @59890 has 35 MA's), (20, 59830), (23, 59788),

Gene: Gazebo\_94 Start: 57966, Stop: 57616, Start Num: 18

Candidate Starts for Gazebo\_94:

(Start: 18 @57966 has 35 MA's), (22, 57873), (23, 57837),

Gene: Grassboy\_100 Start: 58866, Stop: 58543, Start Num: 18  
Candidate Starts for Grassboy\_100:  
(Start: 18 @58866 has 35 MA's), (23, 58770), (24, 58746), (30, 58602),

Gene: Hyperion\_94 Start: 58008, Stop: 57682, Start Num: 18  
Candidate Starts for Hyperion\_94:  
(Start: 18 @58008 has 35 MA's), (22, 57939), (30, 57741),

Gene: Jehoshaphat\_97 Start: 58599, Stop: 58276, Start Num: 18  
Candidate Starts for Jehoshaphat\_97:  
(Start: 18 @58599 has 35 MA's), (23, 58503), (24, 58479), (30, 58335),

Gene: Judebell\_95 Start: 57999, Stop: 57679, Start Num: 18  
Candidate Starts for Judebell\_95:  
(Start: 18 @57999 has 35 MA's), (21, 57936), (23, 57897), (26, 57852), (29, 57750),

Gene: Kelcole\_100 Start: 60397, Stop: 60080, Start Num: 18  
Candidate Starts for Kelcole\_100:  
(Start: 18 @60397 has 35 MA's), (20, 60337), (23, 60295),

Gene: Kyva\_99 Start: 58890, Stop: 58567, Start Num: 18  
Candidate Starts for Kyva\_99:  
(Start: 18 @58890 has 35 MA's), (23, 58794), (24, 58770), (30, 58626),

Gene: Llemily\_97 Start: 57660, Stop: 57337, Start Num: 18  
Candidate Starts for Llemily\_97:  
(Start: 18 @57660 has 35 MA's), (23, 57564), (24, 57540), (30, 57396),

Gene: Lonelysoil\_93 Start: 57421, Stop: 57098, Start Num: 18  
Candidate Starts for Lonelysoil\_93:  
(Start: 18 @57421 has 35 MA's), (23, 57325), (24, 57301), (30, 57157),

Gene: Mashley\_94 Start: 58097, Stop: 57771, Start Num: 18  
Candidate Starts for Mashley\_94:  
(Start: 18 @58097 has 35 MA's), (22, 58028), (30, 57830),

Gene: MorillMayhem\_94 Start: 58220, Stop: 57897, Start Num: 18  
Candidate Starts for MorillMayhem\_94:  
(Start: 18 @58220 has 35 MA's), (20, 58160), (23, 58118), (27, 58028),

Gene: Namago\_97 Start: 58147, Stop: 57824, Start Num: 18  
Candidate Starts for Namago\_97:  
(Start: 18 @58147 has 35 MA's), (23, 58051), (24, 58027), (30, 57883),

Gene: Nike\_93 Start: 58369, Stop: 58043, Start Num: 18  
Candidate Starts for Nike\_93:  
(7, 58570), (12, 58516), (Start: 18 @58369 has 35 MA's), (22, 58300), (30, 58102),

Gene: OneinaGillian\_98 Start: 59292, Stop: 58975, Start Num: 18  
Candidate Starts for OneinaGillian\_98:  
(Start: 18 @59292 has 35 MA's), (20, 59232), (23, 59190),

Gene: Pepe25\_97 Start: 58582, Stop: 58262, Start Num: 18

Candidate Starts for Pepe25\_97:  
(Start: 18 @58582 has 35 MA's), (20, 58522), (23, 58480),

Gene: Phabia\_95 Start: 57997, Stop: 57674, Start Num: 18  
Candidate Starts for Phabia\_95:  
(6, 58192), (Start: 18 @57997 has 35 MA's), (23, 57901), (24, 57877), (30, 57733),

Gene: Phinky\_100 Start: 59739, Stop: 59419, Start Num: 18  
Candidate Starts for Phinky\_100:  
(Start: 18 @59739 has 35 MA's), (20, 59679), (23, 59637),

Gene: Quammi\_95 Start: 57942, Stop: 57619, Start Num: 18  
Candidate Starts for Quammi\_95:  
(Start: 18 @57942 has 35 MA's), (23, 57846), (24, 57822), (30, 57678),

Gene: RobinRose\_103 Start: 60420, Stop: 60103, Start Num: 18  
Candidate Starts for RobinRose\_103:  
(Start: 18 @60420 has 35 MA's), (20, 60360), (23, 60318),

Gene: Romm\_103 Start: 60417, Stop: 60100, Start Num: 18  
Candidate Starts for Romm\_103:  
(Start: 18 @60417 has 35 MA's), (20, 60357), (23, 60315),

Gene: Rowlf\_92 Start: 57836, Stop: 57492, Start Num: 17  
Candidate Starts for Rowlf\_92:  
(16, 57851), (Start: 17 @57836 has 1 MA's), (21, 57749), (23, 57710), (26, 57665), (29, 57563),

Gene: RubyRalph\_95 Start: 59140, Stop: 58796, Start Num: 18  
Candidate Starts for RubyRalph\_95:  
(Start: 18 @59140 has 35 MA's), (19, 59092), (20, 59080), (25, 59005), (29, 58882), (31, 58861),

Gene: Rudy\_93 Start: 57808, Stop: 57485, Start Num: 18  
Candidate Starts for Rudy\_93:  
(Start: 18 @57808 has 35 MA's), (23, 57712), (24, 57688), (30, 57544),

Gene: SadLad\_96 Start: 60059, Stop: 59715, Start Num: 18  
Candidate Starts for SadLad\_96:  
(Start: 18 @60059 has 35 MA's), (19, 60011), (20, 59999), (25, 59924), (29, 59801), (31, 59780),

Gene: SallyK\_97 Start: 58963, Stop: 58640, Start Num: 18  
Candidate Starts for SallyK\_97:  
(Start: 18 @58963 has 35 MA's), (23, 58867), (24, 58843), (30, 58699),

Gene: Sillytadpoles\_98 Start: 57648, Stop: 57325, Start Num: 18  
Candidate Starts for Sillytadpoles\_98:  
(Start: 18 @57648 has 35 MA's), (23, 57552), (24, 57528), (30, 57384),

Gene: Squash\_97 Start: 58351, Stop: 58025, Start Num: 18  
Candidate Starts for Squash\_97:  
(7, 58552), (13, 58498), (Start: 18 @58351 has 35 MA's), (20, 58291), (23, 58249), (27, 58159),

Gene: Statler\_100 Start: 58394, Stop: 58002, Start Num: 18  
Candidate Starts for Statler\_100:

(1, 58739), (2, 58730), (3, 58688), (5, 58595), (8, 58577), (9, 58562), (10, 58550), (11, 58547), (14, 58535), (Start: 18 @58394 has 35 MA's), (19, 58346), (23, 58289), (25, 58259), (30, 58121), (32, 58094), (33, 58073),

Gene: StrawberryJamm\_101 Start: 57923, Stop: 57540, Start Num: 18

Candidate Starts for StrawberryJamm\_101:

(Start: 18 @57923 has 35 MA's), (19, 57875), (23, 57827), (24, 57803), (30, 57659), (32, 57632), (33, 57611),

Gene: Teehee\_96 Start: 58596, Stop: 58273, Start Num: 18

Candidate Starts for Teehee\_96:

(Start: 18 @58596 has 35 MA's), (23, 58500), (24, 58476), (30, 58332),

Gene: Tempo\_102 Start: 60454, Stop: 60137, Start Num: 18

Candidate Starts for Tempo\_102:

(Start: 18 @60454 has 35 MA's), (20, 60394), (23, 60352),

Gene: Tissue\_95 Start: 58587, Stop: 58204, Start Num: 18

Candidate Starts for Tissue\_95:

(Start: 18 @58587 has 35 MA's), (23, 58491), (24, 58467), (30, 58323), (32, 58296), (33, 58275),

Gene: Viceroy\_94 Start: 57763, Stop: 57440, Start Num: 18

Candidate Starts for Viceroy\_94:

(Start: 18 @57763 has 35 MA's), (23, 57667), (24, 57643), (30, 57499),

Gene: Wayne3\_97 Start: 58566, Stop: 58243, Start Num: 18

Candidate Starts for Wayne3\_97:

(6, 58761), (Start: 18 @58566 has 35 MA's), (23, 58470), (24, 58446), (30, 58302),

Gene: Wheelie\_95 Start: 57887, Stop: 57564, Start Num: 18

Candidate Starts for Wheelie\_95:

(6, 58082), (Start: 18 @57887 has 35 MA's), (23, 57791), (24, 57767), (30, 57623),

Gene: Wilca\_99 Start: 59663, Stop: 59343, Start Num: 18

Candidate Starts for Wilca\_99:

(Start: 18 @59663 has 35 MA's), (20, 59603), (23, 59561),

Gene: Zagie\_97 Start: 58408, Stop: 58085, Start Num: 18

Candidate Starts for Zagie\_97:

(Start: 18 @58408 has 35 MA's), (23, 58312), (24, 58288), (30, 58144),

Gene: Zhafia\_101 Start: 58442, Stop: 58119, Start Num: 18

Candidate Starts for Zhafia\_101:

(Start: 18 @58442 has 35 MA's), (23, 58346), (24, 58322), (30, 58178),