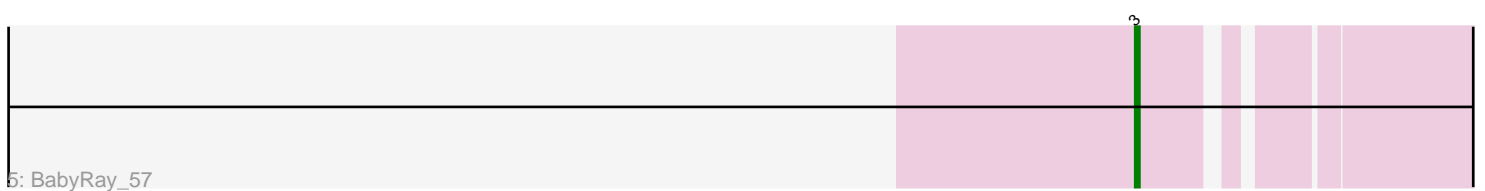
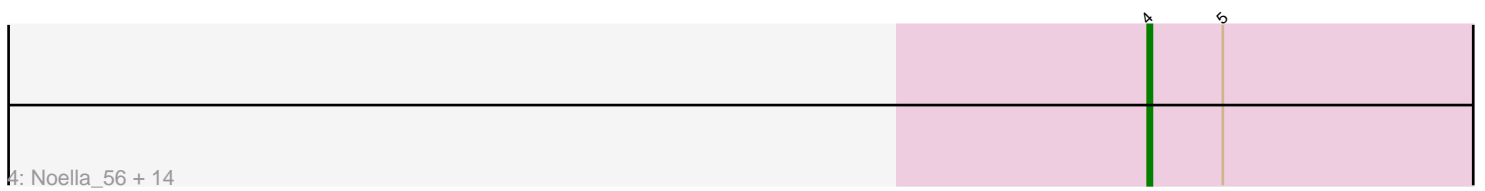
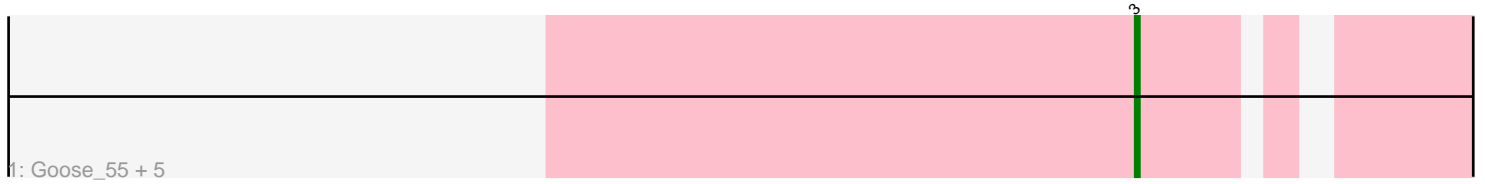


Pham 194088



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 194088 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194088 has 49 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Goose\_55, OKCentral2016\_54, WalterMcMickey\_53, Trike\_53, Rebeuca\_55, Twister\_53
- Track 2 : Eaglepride\_56
- Track 3 : JF4\_55, JF2\_55, MK4\_57, Isca\_56, Phantastic\_58
- Track 4 : Noella\_56, Lambert1\_56, Todacoro\_56, Norbert\_55, ResDef\_56, QuinnKiro\_55, Caviar\_56, Margo\_56, Popcicle\_56, Texage\_55, Hookmount\_56, Veracruz\_55, Panamaxus\_54, Pocahontas\_56, MA5\_57
- Track 5 : BabyRay\_57
- Track 6 : Giroux\_58, SaturnRing\_58, Bugatti\_58, TNguyen7\_58, BlueBird\_59
- Track 7 : Heathen\_57, Scout\_57, Kachowdy\_57, DropBear\_57, Marchesa\_57, HelDan\_57
- Track 8 : Kratak\_54, AvatarAhPeg\_52, ChampagnePapi\_56, Mundrea\_53, Arturo\_53, Cerulean\_55, Happiness\_53, Miramae\_52, LHTSCC\_56, Obama12\_55

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

The start number called the most often in the published annotations is 4, it was called in 23 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Caviar\_56, DropBear\_57, Heathen\_57, HelDan\_57, Hookmount\_56, Isca\_56, JF2\_55, JF4\_55, Kachowdy\_57, Lambert1\_56, MA5\_57, MK4\_57, Marchesa\_57, Margo\_56, Noella\_56, Norbert\_55, Panamaxus\_54, Phantastic\_58, Pocahontas\_56, Popcicle\_56, QuinnKiro\_55, ResDef\_56, Scout\_57, Texage\_55, Todacoro\_56, Veracruz\_55,

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

- 

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

- Arturo\_53, AvatarAhPeg\_52, BabyRay\_57, BlueBird\_59, Bugatti\_58, Cerulean\_55, ChampagnePapi\_56, Eaglepride\_56, Giroux\_58, Goose\_55, Happiness\_53, Kratak\_54, LHTSCC\_56, Miramae\_52, Mundrea\_53, OKCentral2016\_54, Obama12\_55, Rebeuca\_55, SaturnRing\_58, TNguyen7\_58, Trike\_53, Twister\_53,

WalterMcMickey\_53,

### Summary by start number:

#### Start 3:

- Found in 23 of 49 ( 46.9% ) of genes in pham
- Manual Annotations of this start: 20 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arturo\_53 (A4), AvatarAhPeg\_52 (A4), BabyRay\_57 (A3), BlueBird\_59 (A3), Bugatti\_58 (A3), Cerulean\_55 (A4), ChampagnePapi\_56 (A4), Eaglepride\_56 (A10), Giroux\_58 (A3), Goose\_55 (A10), Happiness\_53 (A4), Kratark\_54 (A4), LHTSCC\_56 (A4), Miramae\_52 (A4), Mundrea\_53 (A4), OKCentral2016\_54 (A10), Obama12\_55 (A4), Rebeuca\_55 (A10), SaturnRing\_58 (A3), TNguyen7\_58 (A3), Trike\_53 (A10), Twister\_53 (A10), WalterMcMickey\_53 (A10),

#### Start 4:

- Found in 26 of 49 ( 53.1% ) of genes in pham
- Manual Annotations of this start: 23 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caviar\_56 (A3), DropBear\_57 (A3), Heathen\_57 (A3), HelDan\_57 (A3), Hookmount\_56 (A3), Isca\_56 (A3), JF2\_55 (A3), JF4\_55 (A3), Kachowdy\_57 (A3), Lambert1\_56 (A3), MA5\_57 (A3), MK4\_57 (A3), Marchesa\_57 (A3), Margo\_56 (A3), Noella\_56 (A3), Norbert\_55 (A3), Panamaxus\_54 (A3), Phantastic\_58 (A3), Pocahontas\_56 (A3), Popcicle\_56 (A3), QuinnKiro\_55 (A3), ResDef\_56 (A3), Scout\_57 (A3), Texage\_55 (A3), Todacoro\_56 (A3), Veracruz\_55 (A3),

### Summary by clusters:

There are 3 clusters represented in this pham: A3, A4, A10,

Info for manual annotations of cluster A10:

- Start number 3 was manually annotated 7 times for cluster A10.

Info for manual annotations of cluster A3:

- Start number 3 was manually annotated 3 times for cluster A3.
- Start number 4 was manually annotated 23 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 3 was manually annotated 10 times for cluster A4.

### Gene Information:

Gene: Arturo\_53 Start: 37722, Stop: 37645, Start Num: 3

Candidate Starts for Arturo\_53:

(2, 37923), (Start: 3 @37722 has 20 MA's),

Gene: AvatarAhPeg\_52 Start: 37235, Stop: 37158, Start Num: 3

Candidate Starts for AvatarAhPeg\_52:

(2, 37436), (Start: 3 @37235 has 20 MA's),

Gene: BabyRay\_57 Start: 37849, Stop: 37763, Start Num: 3  
Candidate Starts for BabyRay\_57:  
(Start: 3 @37849 has 20 MA's),

Gene: BlueBird\_59 Start: 37893, Stop: 37804, Start Num: 3  
Candidate Starts for BlueBird\_59:  
(Start: 3 @37893 has 20 MA's),

Gene: Bugatti\_58 Start: 37893, Stop: 37804, Start Num: 3  
Candidate Starts for Bugatti\_58:  
(Start: 3 @37893 has 20 MA's),

Gene: Caviar\_56 Start: 37855, Stop: 37757, Start Num: 4  
Candidate Starts for Caviar\_56:  
(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: Cerulean\_55 Start: 37887, Stop: 37810, Start Num: 3  
Candidate Starts for Cerulean\_55:  
(2, 38088), (Start: 3 @37887 has 20 MA's),

Gene: ChampagnePapi\_56 Start: 37886, Stop: 37809, Start Num: 3  
Candidate Starts for ChampagnePapi\_56:  
(2, 38087), (Start: 3 @37886 has 20 MA's),

Gene: DropBear\_57 Start: 37792, Stop: 37700, Start Num: 4  
Candidate Starts for DropBear\_57:  
(Start: 4 @37792 has 23 MA's), (5, 37774),

Gene: Eaglepride\_56 Start: 37562, Stop: 37473, Start Num: 3  
Candidate Starts for Eaglepride\_56:  
(Start: 3 @37562 has 20 MA's), (6, 37526),

Gene: Giroux\_58 Start: 37892, Stop: 37803, Start Num: 3  
Candidate Starts for Giroux\_58:  
(Start: 3 @37892 has 20 MA's),

Gene: Goose\_55 Start: 37188, Stop: 37105, Start Num: 3  
Candidate Starts for Goose\_55:  
(Start: 3 @37188 has 20 MA's),

Gene: Happiness\_53 Start: 37469, Stop: 37392, Start Num: 3  
Candidate Starts for Happiness\_53:  
(2, 37670), (Start: 3 @37469 has 20 MA's),

Gene: Heathen\_57 Start: 37581, Stop: 37489, Start Num: 4  
Candidate Starts for Heathen\_57:  
(Start: 4 @37581 has 23 MA's), (5, 37563),

Gene: HelDan\_57 Start: 37797, Stop: 37705, Start Num: 4  
Candidate Starts for HelDan\_57:  
(Start: 4 @37797 has 23 MA's), (5, 37779),

Gene: Hookmount\_56 Start: 37856, Stop: 37758, Start Num: 4  
Candidate Starts for Hookmount\_56:  
(Start: 4 @37856 has 23 MA's), (5, 37838),

Gene: Isca\_56 Start: 37366, Stop: 37271, Start Num: 4  
Candidate Starts for Isca\_56:  
(1, 37609), (2, 37570), (Start: 4 @37366 has 23 MA's), (5, 37348),

Gene: JF2\_55 Start: 36067, Stop: 35972, Start Num: 4  
Candidate Starts for JF2\_55:  
(1, 36310), (2, 36271), (Start: 4 @36067 has 23 MA's), (5, 36049),

Gene: JF4\_55 Start: 36067, Stop: 35972, Start Num: 4  
Candidate Starts for JF4\_55:  
(1, 36310), (2, 36271), (Start: 4 @36067 has 23 MA's), (5, 36049),

Gene: Kachowdy\_57 Start: 37833, Stop: 37741, Start Num: 4  
Candidate Starts for Kachowdy\_57:  
(Start: 4 @37833 has 23 MA's), (5, 37815),

Gene: Kratark\_54 Start: 37605, Stop: 37528, Start Num: 3  
Candidate Starts for Kratark\_54:  
(2, 37806), (Start: 3 @37605 has 20 MA's),

Gene: LHTSCC\_56 Start: 37886, Stop: 37809, Start Num: 3  
Candidate Starts for LHTSCC\_56:  
(2, 38087), (Start: 3 @37886 has 20 MA's),

Gene: Lambert1\_56 Start: 37855, Stop: 37757, Start Num: 4  
Candidate Starts for Lambert1\_56:  
(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: MA5\_57 Start: 37267, Stop: 37175, Start Num: 4  
Candidate Starts for MA5\_57:  
(Start: 4 @37267 has 23 MA's), (5, 37249),

Gene: MK4\_57 Start: 37351, Stop: 37256, Start Num: 4  
Candidate Starts for MK4\_57:  
(1, 37594), (2, 37555), (Start: 4 @37351 has 23 MA's), (5, 37333),

Gene: Marchesa\_57 Start: 37783, Stop: 37691, Start Num: 4  
Candidate Starts for Marchesa\_57:  
(Start: 4 @37783 has 23 MA's), (5, 37765),

Gene: Margo\_56 Start: 37881, Stop: 37783, Start Num: 4  
Candidate Starts for Margo\_56:  
(Start: 4 @37881 has 23 MA's), (5, 37863),

Gene: Miramae\_52 Start: 36897, Stop: 36820, Start Num: 3  
Candidate Starts for Miramae\_52:  
(2, 37098), (Start: 3 @36897 has 20 MA's),

Gene: Mundrea\_53 Start: 37449, Stop: 37372, Start Num: 3

Candidate Starts for Mundrea\_53:  
(2, 37650), (Start: 3 @37449 has 20 MA's),

Gene: Noella\_56 Start: 37856, Stop: 37758, Start Num: 4  
Candidate Starts for Noella\_56:  
(Start: 4 @37856 has 23 MA's), (5, 37838),

Gene: Norbert\_55 Start: 37855, Stop: 37757, Start Num: 4  
Candidate Starts for Norbert\_55:  
(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: OKCentral2016\_54 Start: 37091, Stop: 37008, Start Num: 3  
Candidate Starts for OKCentral2016\_54:  
(Start: 3 @37091 has 20 MA's),

Gene: Obama12\_55 Start: 37870, Stop: 37793, Start Num: 3  
Candidate Starts for Obama12\_55:  
(2, 38071), (Start: 3 @37870 has 20 MA's),

Gene: Panamaxus\_54 Start: 37855, Stop: 37757, Start Num: 4  
Candidate Starts for Panamaxus\_54:  
(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: Phantastic\_58 Start: 37528, Stop: 37433, Start Num: 4  
Candidate Starts for Phantastic\_58:  
(1, 37771), (2, 37732), (Start: 4 @37528 has 23 MA's), (5, 37510),

Gene: Pocahontas\_56 Start: 37852, Stop: 37754, Start Num: 4  
Candidate Starts for Pocahontas\_56:  
(Start: 4 @37852 has 23 MA's), (5, 37834),

Gene: Popcicle\_56 Start: 37852, Stop: 37754, Start Num: 4  
Candidate Starts for Popcicle\_56:  
(Start: 4 @37852 has 23 MA's), (5, 37834),

Gene: QuinnKiro\_55 Start: 37855, Stop: 37757, Start Num: 4  
Candidate Starts for QuinnKiro\_55:  
(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: Rebeuca\_55 Start: 37764, Stop: 37681, Start Num: 3  
Candidate Starts for Rebeuca\_55:  
(Start: 3 @37764 has 20 MA's),

Gene: ResDef\_56 Start: 37855, Stop: 37757, Start Num: 4  
Candidate Starts for ResDef\_56:  
(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: SaturnRing\_58 Start: 37893, Stop: 37804, Start Num: 3  
Candidate Starts for SaturnRing\_58:  
(Start: 3 @37893 has 20 MA's),

Gene: Scout\_57 Start: 37044, Stop: 36952, Start Num: 4  
Candidate Starts for Scout\_57:

(Start: 4 @37044 has 23 MA's), (5, 37026),

Gene: TNguyen7\_58 Start: 37859, Stop: 37770, Start Num: 3

Candidate Starts for TNguyen7\_58:

(Start: 3 @37859 has 20 MA's),

Gene: Texage\_55 Start: 37856, Stop: 37758, Start Num: 4

Candidate Starts for Texage\_55:

(Start: 4 @37856 has 23 MA's), (5, 37838),

Gene: Todacoro\_56 Start: 37855, Stop: 37757, Start Num: 4

Candidate Starts for Todacoro\_56:

(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: Trike\_53 Start: 36623, Stop: 36540, Start Num: 3

Candidate Starts for Trike\_53:

(Start: 3 @36623 has 20 MA's),

Gene: Twister\_53 Start: 37325, Stop: 37242, Start Num: 3

Candidate Starts for Twister\_53:

(Start: 3 @37325 has 20 MA's),

Gene: Veracruz\_55 Start: 37855, Stop: 37757, Start Num: 4

Candidate Starts for Veracruz\_55:

(Start: 4 @37855 has 23 MA's), (5, 37837),

Gene: WalterMcMickey\_53 Start: 37325, Stop: 37242, Start Num: 3

Candidate Starts for WalterMcMickey\_53:

(Start: 3 @37325 has 20 MA's),