



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 139842 Report

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

Pham number 139842 has 47 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Poco6\_057
- Track 2 : Magel\_77, Odesza\_75, Mossy\_77, FortCran\_83, Roney\_75, Avazak\_79, Kerry\_75, Hydrus\_76, Tanis\_76, Captrips\_78, Cappybara\_77, AlainaMarie\_75, Gill\_76, OhMyWard\_73, Gravy\_75, Hortihabitatio\_79, Kenosha\_75, Artorias\_78
- Track 3 : Eddiemania\_75, Figliar\_74, Vardy\_75, Rickmore\_74, Chickenjars\_75, Phepper\_77, Burley\_76, EndAve\_77, Jodelie19\_74, TenaciousP\_81, BluerMoon\_78
- Track 4 : Crocheter\_77
- Track 5 : Runhaar\_75, Duffington\_76, Madvan\_75, Nithya\_75, Untouchable\_78, OlgasClover\_77, Nadmeg\_76
- Track 6 : Pherobrine\_77
- Track 7 : Secretariat\_75
- Track 8 : Aflac\_75
- Track 9 : Conley\_75
- Track 10 : Perkunas\_79
- Track 11 : Schwartz33\_77
- Track 12 : Elver\_97, Paella\_99, Qui\_99

### ***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 36 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac\_75, AlainaMarie\_75, Artorias\_78, Avazak\_79, BluerMoon\_78, Burley\_76, Captrips\_78, Cappybara\_77, Chickenjars\_75, Conley\_75, Crocheter\_77, Duffington\_76, Eddiemania\_75, Elver\_97, EndAve\_77, Figliar\_74, FortCran\_83, Gill\_76, Gravy\_75, Hortihabitatio\_79, Hydrus\_76, Jodelie19\_74, Kenosha\_75, Kerry\_75, Madvan\_75, Magel\_77, Mossy\_77, Nadmeg\_76, Nithya\_75, Odesza\_75, OhMyWard\_73, OlgasClover\_77, Paella\_99, Perkunas\_79, Phepper\_77, Pherobrine\_77, Qui\_99, Rickmore\_74, Roney\_75, Runhaar\_75, Schwartz33\_77, Secretariat\_75, Tanis\_76, TenaciousP\_81, Untouchable\_78, Vardy\_75,

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

-

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

- Poco6\_057,

### **Summary by start number:**

Start 3:

- Found in 1 of 47 ( 2.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Poco6\_057 (CC),

Start 4:

- Found in 46 of 47 ( 97.9% ) of genes in pham
- Manual Annotations of this start: 36 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac\_75 (DJ), AlainaMarie\_75 (DJ), Artorias\_78 (DJ), Avazak\_79 (DJ), BluerMoon\_78 (DJ), Burley\_76 (DJ), Captrips\_78 (DJ), Copybara\_77 (DJ), Chikenjars\_75 (DJ), Conley\_75 (DJ), Crocheter\_77 (DJ), Duffington\_76 (DJ), Eddiemania\_75 (DJ), Elver\_97 (FK), EndAve\_77 (DJ), Figliar\_74 (DJ), FortCran\_83 (DJ), Gill\_76 (DJ), Gravy\_75 (DJ), Hortihabitatio\_79 (DJ), Hydus\_76 (DJ), Jodelie19\_74 (DJ), Kenosha\_75 (DJ), Kerry\_75 (DJ), Madvan\_75 (DJ), Magel\_77 (DJ), Mossy\_77 (DJ), Nadmeg\_76 (DJ), Nithya\_75 (DJ), Odesza\_75 (DJ), OhMyWard\_73 (DJ), OlgasClover\_77 (DJ), Paella\_99 (FK), Perkunas\_79 (DJ), Phepper\_77 (DJ), Pherobrine\_77 (DJ), Qui\_99 (FK), Rickmore\_74 (DJ), Roney\_75 (DJ), Runhaar\_75 (DJ), Schwartz33\_77 (DJ), Secretariat\_75 (DJ), Tanis\_76 (DJ), TenaciousP\_81 (DJ), Untouchable\_78 (DJ), Vardy\_75 (DJ),

### **Summary by clusters:**

There are 3 clusters represented in this pham: CC, FK, DJ,

Info for manual annotations of cluster DJ:

- Start number 4 was manually annotated 34 times for cluster DJ.

Info for manual annotations of cluster FK:

- Start number 4 was manually annotated 2 times for cluster FK.

### **Gene Information:**

Gene: Aflac\_75 Start: 51259, Stop: 51378, Start Num: 4

Candidate Starts for Aflac\_75:

(Start: 4 @51259 has 36 MA's), (6, 51316), (8, 51337), (10, 51367),

Gene: AlainaMarie\_75 Start: 51316, Stop: 51435, Start Num: 4

Candidate Starts for AlainaMarie\_75:

(Start: 4 @51316 has 36 MA's), (10, 51424),

Gene: Artorias\_78 Start: 50947, Stop: 51063, Start Num: 4

Candidate Starts for Artorias\_78:

(Start: 4 @50947 has 36 MA's), (10, 51052),

Gene: Avazak\_79 Start: 51629, Stop: 51745, Start Num: 4

Candidate Starts for Avazak\_79:

(Start: 4 @51629 has 36 MA's), (10, 51734),

Gene: BluerMoon\_78 Start: 51213, Stop: 51332, Start Num: 4

Candidate Starts for BluerMoon\_78:

(Start: 4 @51213 has 36 MA's), (6, 51270), (10, 51321),

Gene: Burley\_76 Start: 50762, Stop: 50881, Start Num: 4

Candidate Starts for Burley\_76:

(Start: 4 @50762 has 36 MA's), (6, 50819), (10, 50870),

Gene: Captrips\_78 Start: 50777, Stop: 50893, Start Num: 4

Candidate Starts for Captrips\_78:

(Start: 4 @50777 has 36 MA's), (10, 50882),

Gene: Capybara\_77 Start: 50614, Stop: 50730, Start Num: 4

Candidate Starts for Capybara\_77:

(Start: 4 @50614 has 36 MA's), (10, 50719),

Gene: Chikenjars\_75 Start: 51562, Stop: 51681, Start Num: 4

Candidate Starts for Chikenjars\_75:

(Start: 4 @51562 has 36 MA's), (6, 51619), (10, 51670),

Gene: Conley\_75 Start: 51077, Stop: 51193, Start Num: 4

Candidate Starts for Conley\_75:

(Start: 4 @51077 has 36 MA's), (10, 51182),

Gene: Crocheter\_77 Start: 51226, Stop: 51345, Start Num: 4

Candidate Starts for Crocheter\_77:

(Start: 4 @51226 has 36 MA's), (7, 51292), (10, 51334),

Gene: Duffington\_76 Start: 51530, Stop: 51649, Start Num: 4

Candidate Starts for Duffington\_76:

(Start: 4 @51530 has 36 MA's), (8, 51608), (10, 51638),

Gene: Eddiemania\_75 Start: 51804, Stop: 51923, Start Num: 4

Candidate Starts for Eddiemania\_75:

(Start: 4 @51804 has 36 MA's), (6, 51861), (10, 51912),

Gene: Elver\_97 Start: 54542, Stop: 54664, Start Num: 4

Candidate Starts for Elver\_97:

(Start: 4 @54542 has 36 MA's),

Gene: EndAve\_77 Start: 51506, Stop: 51625, Start Num: 4

Candidate Starts for EndAve\_77:

(Start: 4 @51506 has 36 MA's), (6, 51563), (10, 51614),

Gene: Figliar\_74 Start: 51330, Stop: 51449, Start Num: 4

Candidate Starts for Figliar\_74:

(Start: 4 @51330 has 36 MA's), (6, 51387), (10, 51438),

Gene: FortCran\_83 Start: 50947, Stop: 51063, Start Num: 4  
Candidate Starts for FortCran\_83:  
(Start: 4 @50947 has 36 MA's), (10, 51052),

Gene: Gill\_76 Start: 50642, Stop: 50758, Start Num: 4  
Candidate Starts for Gill\_76:  
(Start: 4 @50642 has 36 MA's), (10, 50747),

Gene: Gravy\_75 Start: 50304, Stop: 50420, Start Num: 4  
Candidate Starts for Gravy\_75:  
(Start: 4 @50304 has 36 MA's), (10, 50409),

Gene: Hortihabitatio\_79 Start: 52082, Stop: 52201, Start Num: 4  
Candidate Starts for Hortihabitatio\_79:  
(Start: 4 @52082 has 36 MA's), (10, 52190),

Gene: Hydrus\_76 Start: 51523, Stop: 51642, Start Num: 4  
Candidate Starts for Hydrus\_76:  
(Start: 4 @51523 has 36 MA's), (10, 51631),

Gene: Jodelie19\_74 Start: 52497, Stop: 52616, Start Num: 4  
Candidate Starts for Jodelie19\_74:  
(Start: 4 @52497 has 36 MA's), (6, 52554), (10, 52605),

Gene: Kenosha\_75 Start: 51351, Stop: 51470, Start Num: 4  
Candidate Starts for Kenosha\_75:  
(Start: 4 @51351 has 36 MA's), (10, 51459),

Gene: Kerry\_75 Start: 50367, Stop: 50483, Start Num: 4  
Candidate Starts for Kerry\_75:  
(Start: 4 @50367 has 36 MA's), (10, 50472),

Gene: Madvan\_75 Start: 50818, Stop: 50937, Start Num: 4  
Candidate Starts for Madvan\_75:  
(Start: 4 @50818 has 36 MA's), (8, 50896), (10, 50926),

Gene: Magel\_77 Start: 50557, Stop: 50673, Start Num: 4  
Candidate Starts for Magel\_77:  
(Start: 4 @50557 has 36 MA's), (10, 50662),

Gene: Mossy\_77 Start: 52440, Stop: 52559, Start Num: 4  
Candidate Starts for Mossy\_77:  
(Start: 4 @52440 has 36 MA's), (10, 52548),

Gene: Nadmeg\_76 Start: 51821, Stop: 51940, Start Num: 4  
Candidate Starts for Nadmeg\_76:  
(Start: 4 @51821 has 36 MA's), (8, 51899), (10, 51929),

Gene: Nithya\_75 Start: 51204, Stop: 51323, Start Num: 4  
Candidate Starts for Nithya\_75:  
(Start: 4 @51204 has 36 MA's), (8, 51282), (10, 51312),

Gene: Odesza\_75 Start: 50501, Stop: 50617, Start Num: 4  
Candidate Starts for Odesza\_75:  
(Start: 4 @50501 has 36 MA's), (10, 50606),

Gene: OhMyWard\_73 Start: 52199, Stop: 52318, Start Num: 4  
Candidate Starts for OhMyWard\_73:  
(Start: 4 @52199 has 36 MA's), (10, 52307),

Gene: OlgasClover\_77 Start: 52120, Stop: 52239, Start Num: 4  
Candidate Starts for OlgasClover\_77:  
(Start: 4 @52120 has 36 MA's), (8, 52198), (10, 52228),

Gene: Paella\_99 Start: 55132, Stop: 55254, Start Num: 4  
Candidate Starts for Paella\_99:  
(Start: 4 @55132 has 36 MA's),

Gene: Perkunas\_79 Start: 50566, Stop: 50679, Start Num: 4  
Candidate Starts for Perkunas\_79:  
(Start: 4 @50566 has 36 MA's), (8, 50638), (10, 50668),

Gene: Phepper\_77 Start: 51060, Stop: 51179, Start Num: 4  
Candidate Starts for Phepper\_77:  
(Start: 4 @51060 has 36 MA's), (6, 51117), (10, 51168),

Gene: Pherobrine\_77 Start: 52134, Stop: 52256, Start Num: 4  
Candidate Starts for Pherobrine\_77:  
(2, 52095), (Start: 4 @52134 has 36 MA's), (9, 52221), (10, 52245),

Gene: Poco6\_057 Start: 66807, Stop: 66938, Start Num: 3  
Candidate Starts for Poco6\_057:  
(1, 66732), (3, 66807), (6, 66870), (10, 66921),

Gene: Qui\_99 Start: 55132, Stop: 55254, Start Num: 4  
Candidate Starts for Qui\_99:  
(Start: 4 @55132 has 36 MA's),

Gene: Rickmore\_74 Start: 49877, Stop: 49996, Start Num: 4  
Candidate Starts for Rickmore\_74:  
(Start: 4 @49877 has 36 MA's), (6, 49934), (10, 49985),

Gene: Roney\_75 Start: 50667, Stop: 50783, Start Num: 4  
Candidate Starts for Roney\_75:  
(Start: 4 @50667 has 36 MA's), (10, 50772),

Gene: Runhaar\_75 Start: 50869, Stop: 50988, Start Num: 4  
Candidate Starts for Runhaar\_75:  
(Start: 4 @50869 has 36 MA's), (8, 50947), (10, 50977),

Gene: Schwartz33\_77 Start: 51200, Stop: 51319, Start Num: 4  
Candidate Starts for Schwartz33\_77:  
(Start: 4 @51200 has 36 MA's), (10, 51308),

Gene: Secretariat\_75 Start: 50334, Stop: 50453, Start Num: 4

Candidate Starts for Secretariat\_75:

(Start: 4 @50334 has 36 MA's), (5, 50379), (10, 50442),

Gene: Tanis\_76 Start: 50487, Stop: 50603, Start Num: 4

Candidate Starts for Tanis\_76:

(Start: 4 @50487 has 36 MA's), (10, 50592),

Gene: TenaciousP\_81 Start: 52459, Stop: 52578, Start Num: 4

Candidate Starts for TenaciousP\_81:

(Start: 4 @52459 has 36 MA's), (6, 52516), (10, 52567),

Gene: Untouchable\_78 Start: 52057, Stop: 52176, Start Num: 4

Candidate Starts for Untouchable\_78:

(Start: 4 @52057 has 36 MA's), (8, 52135), (10, 52165),

Gene: Vardy\_75 Start: 50756, Stop: 50875, Start Num: 4

Candidate Starts for Vardy\_75:

(Start: 4 @50756 has 36 MA's), (6, 50813), (10, 50864),