

Pham 289345



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 289345 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289345 has 76 members, 18 are drafts.

Phages represented in each track:

- Track 1 : Yvonnestic\_54, Cardigan\_57, JonJames\_56
- Track 2 : Tonaltzin\_7, Dialga\_5, Hydrus\_5, CWormy\_5, Nadmeg\_6, Burley\_6, Eddiemania\_5, OlgasClover\_6, Crocheter\_5, Aflac\_6, Kenosha\_3, Vardy\_6, BluerMoon\_6, TenaciousP\_6, ArtetaBall\_5, Jodelie19\_6, MajinBuu\_6, Figliar\_6, Runhaar\_6, Blanky\_2, Untouchable\_5
- Track 3 : ShaggyRogers\_6, Gusicorn\_6, Demure\_2, BetterYeti\_6, Phepper\_6, Arataki\_3, Aloe25\_6, Madvan\_6, PestoPenguin\_6
- Track 4 : ChickyNugget\_2, NoPickles\_2, FortCran\_2, Kerry\_2, Odesza\_2, Magel\_2, Captrips\_2, JulesRay\_2, Dancer\_2, Roney\_2, Artorias\_2, Capybara\_2, Gill\_2, Tairn4Wing\_2, Bugg\_2, Avazak\_2, Tanis\_2, Trufflozitus\_2, Gravy\_2, Football\_2
- Track 5 : Fazel\_3, Hortihabitatio\_5, Mysticmoon\_3, Pherobrine\_3
- Track 6 : Petito\_3
- Track 7 : Schwartz33\_6
- Track 8 : EndAve\_6, AlainaMarie\_6, Rickmore\_5, Mossy\_3, Duffington\_6, Citrus\_6, Chickenjars\_6, Nithya\_6, Luthien\_6, Glintora\_5
- Track 9 : OhMyWard\_6
- Track 10 : Talon44\_3, SweetCrkHerbs\_3
- Track 11 : Perkunas\_4
- Track 12 : Zeph\_5
- Track 13 : Secretariat\_2
- Track 14 : Conley\_2

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

The start number called the most often in the published annotations is 2, it was called in 39 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac\_6, AlainaMarie\_6, Aloe25\_6, Arataki\_3, ArtetaBall\_5, BetterYeti\_6, Blanky\_2, BluerMoon\_6, Burley\_6, CWormy\_5, Cardigan\_57, Chickenjars\_6, Citrus\_6, Crocheter\_5, Demure\_2, Dialga\_5, Duffington\_6, Eddiemania\_5, EndAve\_6, Fazel\_3, Figliar\_6, Glintora\_5, Gusicorn\_6, Hortihabitatio\_5, Hydrus\_5, Jodelie19\_6, JonJames\_56, Kenosha\_3, Luthien\_6, Madvan\_6, MajinBuu\_6, Mossy\_3, Mysticmoon\_3, Nadmeg\_6, Nithya\_6, OhMyWard\_6, OlgasClover\_6,

PestoPenguin\_6, Phepper\_6, Pherobrine\_3, Rickmore\_5, Runhaar\_6, Schwartz33\_6, Secretariat\_2, ShaggyRogers\_6, TenaciousP\_6, Tonaltzin\_7, Untouchable\_5, Vardy\_6, Yvonnetastic\_54, Zeph\_5,

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:

• Artorias\_2, Avazak\_2, Bugg\_2, Captrips\_2, Capybara\_2, ChickyNuggy\_2, Conley\_2, Dancer\_2, Football\_2, FortCran\_2, Gill\_2, Gravy\_2, JulesRay\_2, Kerry\_2, Magel\_2, NoPickles\_2, Odesza\_2, Perkunas\_4, Petite\_3, Roney\_2, SweetCrkHerbs\_3, Tairn4Wing\_2, Talon44\_3, Tanis\_2, Trufflozitus\_2,

### Summary by start number:

Start 1:

- Found in 25 of 76 ( 32.9% ) of genes in pham
- Manual Annotations of this start: 19 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artorias\_2 (DJ), Avazak\_2 (DJ), Bugg\_2 (DJ), Captrips\_2 (DJ), Capybara\_2 (DJ), ChickyNuggy\_2 (DJ), Conley\_2 (DJ), Dancer\_2 (DJ), Football\_2 (DJ), FortCran\_2 (DJ), Gill\_2 (DJ), Gravy\_2 (DJ), JulesRay\_2 (DJ), Kerry\_2 (DJ), Magel\_2 (DJ), NoPickles\_2 (DJ), Odesza\_2 (DJ), Perkunas\_4 (DJ), Petite\_3 (DJ), Roney\_2 (DJ), SweetCrkHerbs\_3 (DJ), Tairn4Wing\_2 (DJ), Talon44\_3 (DJ), Tanis\_2 (DJ), Trufflozitus\_2 (DJ),

Start 2:

- Found in 51 of 76 ( 67.1% ) of genes in pham
- Manual Annotations of this start: 39 of 58
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac\_6 (DJ), AlainaMarie\_6 (DJ), Aloe25\_6 (DJ), Arataki\_3 (DJ), ArtetaBall\_5 (DJ), BetterYeti\_6 (DJ), Blanky\_2 (DJ), BluerMoon\_6 (DJ), Burley\_6 (DJ), CWormy\_5 (DJ), Cardigan\_57 (DD), Chikenjars\_6 (DJ), Citrus\_6 (DJ), Crocheter\_5 (DJ), Demure\_2 (DJ), Dialga\_5 (DJ), Duffington\_6 (DJ), Eddiemania\_5 (DJ), EndAve\_6 (DJ), Fazel\_3 (DJ), Figliar\_6 (DJ), Glintora\_5 (DJ), Gusicorn\_6 (DJ), Hortihabitatio\_5 (DJ), Hydrus\_5 (DJ), Jodelie19\_6 (DJ), JonJames\_56 (DD), Kenosha\_3 (DJ), Luthien\_6 (DJ), Madvan\_6 (DJ), MajinBuu\_6 (DJ), Mossy\_3 (DJ), Mysticmoon\_3 (DJ), Nadmeg\_6 (DJ), Nithya\_6 (DJ), OhMyWard\_6 (DJ), OlgasClover\_6 (DJ), PestoPenguin\_6 (DJ), Phepper\_6 (DJ), Pherobrine\_3 (DJ), Rickmore\_5 (DJ), Runhaar\_6 (DJ), Schwartz33\_6 (DJ), Secretariat\_2 (DJ), ShaggyRogers\_6 (DJ), TenaciousP\_6 (DJ), Tonaltzin\_7 (DJ), Untouchable\_5 (DJ), Vardy\_6 (DJ), Yvonnetastic\_54 (DD), Zeph\_5 (DJ),

### Summary by clusters:

There are 2 clusters represented in this pham: DD, DJ,

Info for manual annotations of cluster DD:

- Start number 2 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DJ:

- Start number 1 was manually annotated 19 times for cluster DJ.
- Start number 2 was manually annotated 37 times for cluster DJ.

**Gene Information:**

Gene: Aflac\_6 Start: 2915, Stop: 3265, Start Num: 2

Candidate Starts for Aflac\_6:

(Start: 2 @2915 has 39 MA's), (19, 3185),

Gene: AlainaMarie\_6 Start: 2906, Stop: 3256, Start Num: 2

Candidate Starts for AlainaMarie\_6:

(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: Aloe25\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for Aloe25\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182), (22, 3239),

Gene: Arataki\_3 Start: 703, Stop: 1053, Start Num: 2

Candidate Starts for Arataki\_3:

(Start: 2 @703 has 39 MA's), (19, 973), (22, 1030),

Gene: ArtetaBall\_5 Start: 1839, Stop: 2189, Start Num: 2

Candidate Starts for ArtetaBall\_5:

(Start: 2 @1839 has 39 MA's), (19, 2109),

Gene: Artorias\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Artorias\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Avazak\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Avazak\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: BetterYeti\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for BetterYeti\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182), (22, 3239),

Gene: Blanky\_2 Start: 757, Stop: 1107, Start Num: 2

Candidate Starts for Blanky\_2:

(Start: 2 @757 has 39 MA's), (19, 1027),

Gene: BluerMoon\_6 Start: 2909, Stop: 3259, Start Num: 2

Candidate Starts for BluerMoon\_6:

(Start: 2 @2909 has 39 MA's), (19, 3179),

Gene: Bugg\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Bugg\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Burley\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for Burley\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182),

Gene: CWormy\_5 Start: 1839, Stop: 2189, Start Num: 2

Candidate Starts for CWormy\_5:

(Start: 2 @1839 has 39 MA's), (19, 2109),

Gene: Captrips\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Captrips\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Capybara\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Capybara\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Cardigan\_57 Start: 41106, Stop: 41459, Start Num: 2

Candidate Starts for Cardigan\_57:

(Start: 2 @41106 has 39 MA's), (5, 41154), (6, 41205), (8, 41247), (9, 41253), (16, 41322), (17, 41334), (18, 41358), (21, 41412), (23, 41448),

Gene: ChickyNuggy\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for ChickyNuggy\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Chikenjars\_6 Start: 2906, Stop: 3256, Start Num: 2

Candidate Starts for Chikenjars\_6:

(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: Citrus\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for Citrus\_6:

(Start: 2 @2912 has 39 MA's), (15, 3119), (19, 3182),

Gene: Conley\_2 Start: 473, Stop: 826, Start Num: 1

Candidate Starts for Conley\_2:

(Start: 1 @473 has 19 MA's), (4, 506), (19, 746),

Gene: Crocheter\_5 Start: 1839, Stop: 2189, Start Num: 2

Candidate Starts for Crocheter\_5:

(Start: 2 @1839 has 39 MA's), (19, 2109),

Gene: Dancer\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Dancer\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Demure\_2 Start: 703, Stop: 1053, Start Num: 2

Candidate Starts for Demure\_2:

(Start: 2 @703 has 39 MA's), (19, 973), (22, 1030),

Gene: Dialga\_5 Start: 1839, Stop: 2189, Start Num: 2

Candidate Starts for Dialga\_5:

(Start: 2 @1839 has 39 MA's), (19, 2109),

Gene: Duffington\_6 Start: 2906, Stop: 3241, Start Num: 2

Candidate Starts for Duffington\_6:

(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: Eddiemania\_5 Start: 2097, Stop: 2447, Start Num: 2  
Candidate Starts for Eddiemania\_5:  
(Start: 2 @2097 has 39 MA's), (19, 2367),

Gene: EndAve\_6 Start: 2906, Stop: 3256, Start Num: 2  
Candidate Starts for EndAve\_6:  
(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: Fazel\_3 Start: 1633, Stop: 1986, Start Num: 2  
Candidate Starts for Fazel\_3:  
(Start: 2 @1633 has 39 MA's),

Gene: Figliar\_6 Start: 2915, Stop: 3265, Start Num: 2  
Candidate Starts for Figliar\_6:  
(Start: 2 @2915 has 39 MA's), (19, 3185),

Gene: Football\_2 Start: 472, Stop: 825, Start Num: 1  
Candidate Starts for Football\_2:  
(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: FortCran\_2 Start: 472, Stop: 825, Start Num: 1  
Candidate Starts for FortCran\_2:  
(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Gill\_2 Start: 472, Stop: 825, Start Num: 1  
Candidate Starts for Gill\_2:  
(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Glintora\_5 Start: 2906, Stop: 3256, Start Num: 2  
Candidate Starts for Glintora\_5:  
(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: Gravy\_2 Start: 472, Stop: 825, Start Num: 1  
Candidate Starts for Gravy\_2:  
(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Gusicorn\_6 Start: 2912, Stop: 3262, Start Num: 2  
Candidate Starts for Gusicorn\_6:  
(Start: 2 @2912 has 39 MA's), (19, 3182), (22, 3239),

Gene: Hortihabitatio\_5 Start: 2190, Stop: 2543, Start Num: 2  
Candidate Starts for Hortihabitatio\_5:  
(Start: 2 @2190 has 39 MA's),

Gene: Hydrus\_5 Start: 2097, Stop: 2447, Start Num: 2  
Candidate Starts for Hydrus\_5:  
(Start: 2 @2097 has 39 MA's), (19, 2367),

Gene: Jodelie19\_6 Start: 2909, Stop: 3259, Start Num: 2  
Candidate Starts for Jodelie19\_6:  
(Start: 2 @2909 has 39 MA's), (19, 3179),

Gene: JonJames\_56 Start: 41168, Stop: 41521, Start Num: 2

Candidate Starts for JonJames\_56:

(Start: 2 @41168 has 39 MA's), (5, 41216), (6, 41267), (8, 41309), (9, 41315), (16, 41384), (17, 41396), (18, 41420), (21, 41474), (23, 41510),

Gene: JulesRay\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for JulesRay\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Kenosha\_3 Start: 698, Stop: 1048, Start Num: 2

Candidate Starts for Kenosha\_3:

(Start: 2 @698 has 39 MA's), (19, 968),

Gene: Kerry\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Kerry\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Luthien\_6 Start: 2906, Stop: 3256, Start Num: 2

Candidate Starts for Luthien\_6:

(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: Madvan\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for Madvan\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182), (22, 3239),

Gene: Magel\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Magel\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: MajinBuu\_6 Start: 2909, Stop: 3259, Start Num: 2

Candidate Starts for MajinBuu\_6:

(Start: 2 @2909 has 39 MA's), (19, 3179),

Gene: Mossy\_3 Start: 758, Stop: 1108, Start Num: 2

Candidate Starts for Mossy\_3:

(Start: 2 @758 has 39 MA's), (15, 965), (19, 1028),

Gene: Mysticmoon\_3 Start: 665, Stop: 1018, Start Num: 2

Candidate Starts for Mysticmoon\_3:

(Start: 2 @665 has 39 MA's),

Gene: Nadmeg\_6 Start: 2913, Stop: 3263, Start Num: 2

Candidate Starts for Nadmeg\_6:

(Start: 2 @2913 has 39 MA's), (19, 3183),

Gene: Nithya\_6 Start: 2906, Stop: 3256, Start Num: 2

Candidate Starts for Nithya\_6:

(Start: 2 @2906 has 39 MA's), (15, 3113), (19, 3176),

Gene: NoPickles\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for NoPickles\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Odesza\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Odesza\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: OhMyWard\_6 Start: 2910, Stop: 3260, Start Num: 2

Candidate Starts for OhMyWard\_6:

(Start: 2 @2910 has 39 MA's), (3, 2925), (14, 3114), (15, 3117), (19, 3180), (20, 3204),

Gene: OlgasClover\_6 Start: 2906, Stop: 3256, Start Num: 2

Candidate Starts for OlgasClover\_6:

(Start: 2 @2906 has 39 MA's), (19, 3176),

Gene: Perkunas\_4 Start: 991, Stop: 1344, Start Num: 1

Candidate Starts for Perkunas\_4:

(Start: 1 @991 has 19 MA's), (4, 1024), (7, 1111), (11, 1159), (12, 1174), (19, 1264),

Gene: PestoPenguin\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for PestoPenguin\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182), (22, 3239),

Gene: Petito\_3 Start: 667, Stop: 1020, Start Num: 1

Candidate Starts for Petito\_3:

(Start: 1 @667 has 19 MA's), (4, 700), (19, 940),

Gene: Phepper\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for Phepper\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182), (22, 3239),

Gene: Pherobrine\_3 Start: 666, Stop: 1019, Start Num: 2

Candidate Starts for Pherobrine\_3:

(Start: 2 @666 has 39 MA's),

Gene: Rickmore\_5 Start: 1474, Stop: 1824, Start Num: 2

Candidate Starts for Rickmore\_5:

(Start: 2 @1474 has 39 MA's), (15, 1681), (19, 1744),

Gene: Roney\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Roney\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Runhaar\_6 Start: 2912, Stop: 3262, Start Num: 2

Candidate Starts for Runhaar\_6:

(Start: 2 @2912 has 39 MA's), (19, 3182),

Gene: Schwartz33\_6 Start: 2928, Stop: 3278, Start Num: 2

Candidate Starts for Schwartz33\_6:

(Start: 2 @2928 has 39 MA's), (12, 3108), (13, 3123), (19, 3198),

Gene: Secretariat\_2 Start: 534, Stop: 884, Start Num: 2

Candidate Starts for Secretariat\_2:

(Start: 2 @534 has 39 MA's), (5, 582), (19, 804), (22, 861),

Gene: ShaggyRogers\_6 Start: 2911, Stop: 3261, Start Num: 2

Candidate Starts for ShaggyRogers\_6:

(Start: 2 @2911 has 39 MA's), (19, 3181), (22, 3238),

Gene: SweetCrkHerbs\_3 Start: 667, Stop: 1020, Start Num: 1

Candidate Starts for SweetCrkHerbs\_3:

(Start: 1 @667 has 19 MA's), (4, 700), (11, 835), (12, 850), (15, 877), (19, 940),

Gene: Tairn4Wing\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Tairn4Wing\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Talon44\_3 Start: 667, Stop: 1020, Start Num: 1

Candidate Starts for Talon44\_3:

(Start: 1 @667 has 19 MA's), (4, 700), (11, 835), (12, 850), (15, 877), (19, 940),

Gene: Tanis\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Tanis\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: TenaciousP\_6 Start: 2909, Stop: 3259, Start Num: 2

Candidate Starts for TenaciousP\_6:

(Start: 2 @2909 has 39 MA's), (19, 3179),

Gene: Tonaltzin\_7 Start: 2909, Stop: 3259, Start Num: 2

Candidate Starts for Tonaltzin\_7:

(Start: 2 @2909 has 39 MA's), (19, 3179),

Gene: Trufflozitus\_2 Start: 472, Stop: 825, Start Num: 1

Candidate Starts for Trufflozitus\_2:

(Start: 1 @472 has 19 MA's), (4, 505), (10, 637), (11, 640), (19, 745),

Gene: Untouchable\_5 Start: 1838, Stop: 2188, Start Num: 2

Candidate Starts for Untouchable\_5:

(Start: 2 @1838 has 39 MA's), (19, 2108),

Gene: Vardy\_6 Start: 2911, Stop: 3261, Start Num: 2

Candidate Starts for Vardy\_6:

(Start: 2 @2911 has 39 MA's), (19, 3181),

Gene: Yvonnetastic\_54 Start: 38703, Stop: 39056, Start Num: 2

Candidate Starts for Yvonnetastic\_54:

(Start: 2 @38703 has 39 MA's), (5, 38751), (6, 38802), (8, 38844), (9, 38850), (16, 38919), (17, 38931), (18, 38955), (21, 39009), (23, 39045),

Gene: Zeph\_5 Start: 2097, Stop: 2447, Start Num: 2

Candidate Starts for Zeph\_5:

(Start: 2 @2097 has 39 MA's), (15, 2304),