

# Pham 300107



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 300107 Report

This analysis was run 06/08/26 on database version 649.

Pham number 300107 has 57 members, 4 are drafts.

Phages represented in each track:

- Track 1 : SansAfet\_65, SirBeanington\_64
- Track 2 : PhigPhack\_66, Albright\_63, Phisb\_65
- Track 3 : Sharkboy\_63
- Track 4 : Bernstein\_63, Brahms\_63, Clayda5\_65, Rollins\_63, Skylord\_63, Coltrane\_63, Vitas\_63
- Track 5 : Katzastrophic\_61, Celaena\_60, FlameThrower\_59
- Track 6 : Didgeridoo\_69, IndyLu\_66
- Track 7 : Stoor\_61, Loviatar\_62, PondAmelia\_76, Akino08\_62, SanaSana\_63, Icarian\_64
- Track 8 : Albedo\_65
- Track 9 : Kamdara\_60, Kieran\_60, ChiliPepper\_60
- Track 10 : Dismas\_62, Rona\_61
- Track 11 : Bachaco\_60
- Track 12 : DickRichards\_62
- Track 13 : BAjuniper\_61
- Track 14 : LimaBean\_63, Johnathan\_63, BelmontSKP\_63, WalkingDead\_64, AnnaLie\_63, QMacho\_65, Burritobowl\_65
- Track 15 : Finalfrontier\_64, Slay\_65
- Track 16 : BabyDaisy\_66, Kate33\_68
- Track 17 : PastaFagioli\_65
- Track 18 : Elva\_66
- Track 19 : BabyYoda\_61
- Track 20 : Eden\_65
- Track 21 : Gack\_64
- Track 22 : Franklin22\_67
- Track 23 : Stromboli\_61
- Track 24 : Quenya\_64
- Track 25 : Softsoap\_65
- Track 26 : AvGardian\_64
- Track 27 : DirtyBubble\_61
- Track 28 : Abigail\_63
- Track 29 : Armstrong\_63

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

The start number called the most often in the published annotations is 15, it was called in 47 of the 53 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail\_63, Akino08\_62, Albedo\_65, Albright\_63, AnnaLie\_63, Armstrong\_63, AvGardian\_64, BAjuniper\_61, BabyDaisy\_66, BabyYoda\_61, Bachaco\_60, BelmontSKP\_63, Bernstein\_63, Brahms\_63, Burritobowl\_65, Celaena\_60, ChiliPepper\_60, Clayda5\_65, Coltrane\_63, DickRichards\_62, Didgeridoo\_69, DirtyBubble\_61, Elva\_66, Finalfrontier\_64, FlameThrower\_59, Icarian\_64, IndyLu\_66, Johnathan\_63, Kamdara\_60, Kate33\_68, Katzastrophic\_61, Kieran\_60, LimaBean\_63, Loviatar\_62, PastaFagioli\_65, PhigPhack\_66, Phisb\_65, PondAmelia\_76, QMacho\_65, Quenya\_64, Rollins\_63, SanaSana\_63, SansAfet\_65, SirBeanington\_64, Skylord\_63, Slay\_65, Softsoap\_65, Stoor\_61, Stromboli\_61, Vitas\_63, WalkingDead\_64,

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:

- Dismas\_62, Eden\_65, Franklin22\_67, Gack\_64, Rona\_61, Sharkboy\_63,

### Summary by start number:

Start 15:

- Found in 51 of 57 ( 89.5% ) of genes in pham
- Manual Annotations of this start: 47 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail\_63 (EB), Akino08\_62 (EB), Albedo\_65 (EB), Albright\_63 (EB), AnnaLie\_63 (EB), Armstrong\_63 (EB), AvGardian\_64 (EB), BAjuniper\_61 (EB), BabyDaisy\_66 (EB), BabyYoda\_61 (EB), Bachaco\_60 (EB), BelmontSKP\_63 (EB), Bernstein\_63 (EB), Brahms\_63 (EB), Burritobowl\_65 (EB), Celaena\_60 (EB), ChiliPepper\_60 (EB), Clayda5\_65 (EB), Coltrane\_63 (EB), DickRichards\_62 (EB), Didgeridoo\_69 (EB), DirtyBubble\_61 (EB), Elva\_66 (EB), Finalfrontier\_64 (EB), FlameThrower\_59 (EB), Icarian\_64 (EB), IndyLu\_66 (EB), Johnathan\_63 (EB), Kamdara\_60 (EB), Kate33\_68 (EB), Katzastrophic\_61 (EB), Kieran\_60 (EB), LimaBean\_63 (EB), Loviatar\_62 (EB), PastaFagioli\_65 (EB), PhigPhack\_66 (EB), Phisb\_65 (EB), PondAmelia\_76 (EB), QMacho\_65 (EB), Quenya\_64 (EB), Rollins\_63 (EB), SanaSana\_63 (EB), SansAfet\_65 (EB), SirBeanington\_64 (EB), Skylord\_63 (EB), Slay\_65 (EB), Softsoap\_65 (EB), Stoor\_61 (EB), Stromboli\_61 (EB), Vitas\_63 (EB), WalkingDead\_64 (EB),

Start 16:

- Found in 6 of 57 ( 10.5% ) of genes in pham
- Manual Annotations of this start: 6 of 53
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dismas\_62 (EB), Eden\_65 (EB), Franklin22\_67 (EB), Gack\_64 (EB), Rona\_61 (EB), Sharkboy\_63 (EB),

### Summary by clusters:

There is one cluster represented in this pham: EB

Info for manual annotations of cluster EB:

- Start number 15 was manually annotated 47 times for cluster EB.
- Start number 16 was manually annotated 6 times for cluster EB.

**Gene Information:**

Gene: Abigail\_63 Start: 39109, Stop: 39315, Start Num: 15

Candidate Starts for Abigail\_63:

(6, 38890), (10, 38926), (13, 39022), (Start: 15 @39109 has 47 MA's), (20, 39154),

Gene: Akino08\_62 Start: 40569, Stop: 40775, Start Num: 15

Candidate Starts for Akino08\_62:

(Start: 15 @40569 has 47 MA's), (20, 40614), (21, 40626), (23, 40683), (24, 40698),

Gene: Albedo\_65 Start: 40029, Stop: 40235, Start Num: 15

Candidate Starts for Albedo\_65:

(6, 39810), (10, 39846), (Start: 15 @40029 has 47 MA's), (20, 40074),

Gene: Albright\_63 Start: 39091, Stop: 39297, Start Num: 15

Candidate Starts for Albright\_63:

(6, 38872), (10, 38908), (14, 39040), (Start: 15 @39091 has 47 MA's), (20, 39136), (24, 39220),

Gene: AnnaLie\_63 Start: 39764, Stop: 39976, Start Num: 15

Candidate Starts for AnnaLie\_63:

(Start: 15 @39764 has 47 MA's), (20, 39815), (24, 39899),

Gene: Armstrong\_63 Start: 37786, Stop: 38004, Start Num: 15

Candidate Starts for Armstrong\_63:

(Start: 15 @37786 has 47 MA's), (20, 37840), (28, 37981),

Gene: AvGardian\_64 Start: 39831, Stop: 40037, Start Num: 15

Candidate Starts for AvGardian\_64:

(12, 39669), (Start: 15 @39831 has 47 MA's), (20, 39876), (24, 39960),

Gene: BAjuniper\_61 Start: 39841, Stop: 40053, Start Num: 15

Candidate Starts for BAjuniper\_61:

(Start: 15 @39841 has 47 MA's), (19, 39880),

Gene: BabyDaisy\_66 Start: 40574, Stop: 40786, Start Num: 15

Candidate Starts for BabyDaisy\_66:

(6, 40355), (7, 40364), (10, 40391), (Start: 15 @40574 has 47 MA's), (17, 40598), (20, 40625), (24, 40709),

Gene: BabyYoda\_61 Start: 39477, Stop: 39683, Start Num: 15

Candidate Starts for BabyYoda\_61:

(Start: 15 @39477 has 47 MA's), (20, 39522), (23, 39591), (24, 39606),

Gene: Bachaco\_60 Start: 40521, Stop: 40727, Start Num: 15

Candidate Starts for Bachaco\_60:

(8, 40317), (Start: 15 @40521 has 47 MA's), (20, 40566), (29, 40722),

Gene: BelmontSKP\_63 Start: 39764, Stop: 39976, Start Num: 15

Candidate Starts for BelmontSKP\_63:

(Start: 15 @39764 has 47 MA's), (20, 39815), (24, 39899),

Gene: Bernstein\_63 Start: 37784, Stop: 38002, Start Num: 15

Candidate Starts for Bernstein\_63:

(Start: 15 @37784 has 47 MA's), (20, 37838), (28, 37979),

Gene: Brahms\_63 Start: 37686, Stop: 37904, Start Num: 15

Candidate Starts for Brahms\_63:

(Start: 15 @37686 has 47 MA's), (20, 37740), (28, 37881),

Gene: Burritobowl\_65 Start: 39592, Stop: 39798, Start Num: 15

Candidate Starts for Burritobowl\_65:

(Start: 15 @39592 has 47 MA's), (20, 39637), (24, 39721),

Gene: Celaena\_60 Start: 40283, Stop: 40489, Start Num: 15

Candidate Starts for Celaena\_60:

(8, 40079), (Start: 15 @40283 has 47 MA's), (20, 40328), (29, 40484),

Gene: ChiliPepper\_60 Start: 39835, Stop: 40041, Start Num: 15

Candidate Starts for ChiliPepper\_60:

(Start: 15 @39835 has 47 MA's), (29, 40036),

Gene: Clayda5\_65 Start: 37751, Stop: 37969, Start Num: 15

Candidate Starts for Clayda5\_65:

(Start: 15 @37751 has 47 MA's), (20, 37805), (28, 37946),

Gene: Coltrane\_63 Start: 37686, Stop: 37904, Start Num: 15

Candidate Starts for Coltrane\_63:

(Start: 15 @37686 has 47 MA's), (20, 37740), (28, 37881),

Gene: DickRichards\_62 Start: 39548, Stop: 39754, Start Num: 15

Candidate Starts for DickRichards\_62:

(Start: 15 @39548 has 47 MA's), (17, 39566), (20, 39593), (24, 39677),

Gene: Didgeridoo\_69 Start: 40684, Stop: 40896, Start Num: 15

Candidate Starts for Didgeridoo\_69:

(6, 40465), (7, 40474), (10, 40501), (Start: 15 @40684 has 47 MA's), (20, 40735), (27, 40864),

Gene: DirtyBubble\_61 Start: 39516, Stop: 39722, Start Num: 15

Candidate Starts for DirtyBubble\_61:

(2, 39102), (3, 39189), (6, 39297), (7, 39306), (Start: 15 @39516 has 47 MA's), (20, 39561), (23, 39630), (24, 39645),

Gene: Dismas\_62 Start: 39963, Stop: 40178, Start Num: 16

Candidate Starts for Dismas\_62:

(Start: 16 @39963 has 6 MA's), (29, 40173),

Gene: Eden\_65 Start: 38897, Stop: 39118, Start Num: 16

Candidate Starts for Eden\_65:

(1, 38360), (Start: 16 @38897 has 6 MA's),

Gene: Elva\_66 Start: 40355, Stop: 40561, Start Num: 15

Candidate Starts for Elva\_66:

(Start: 15 @40355 has 47 MA's), (20, 40400), (24, 40484),

Gene: Finalfrontier\_64 Start: 40296, Stop: 40502, Start Num: 15

Candidate Starts for Finalfrontier\_64:

(Start: 15 @40296 has 47 MA's), (20, 40341), (25, 40449),

Gene: FlameThrower\_59 Start: 39320, Stop: 39526, Start Num: 15

Candidate Starts for FlameThrower\_59:

(8, 39116), (Start: 15 @39320 has 47 MA's), (20, 39365), (29, 39521),

Gene: Franklin22\_67 Start: 38618, Stop: 38842, Start Num: 16

Candidate Starts for Franklin22\_67:

(Start: 16 @38618 has 6 MA's), (20, 38669), (23, 38738),

Gene: Gack\_64 Start: 38523, Stop: 38747, Start Num: 16

Candidate Starts for Gack\_64:

(Start: 16 @38523 has 6 MA's), (20, 38574), (23, 38643), (26, 38688),

Gene: Icarian\_64 Start: 40166, Stop: 40372, Start Num: 15

Candidate Starts for Icarian\_64:

(Start: 15 @40166 has 47 MA's), (20, 40211), (21, 40223), (23, 40280), (24, 40295),

Gene: IndyLu\_66 Start: 40305, Stop: 40517, Start Num: 15

Candidate Starts for IndyLu\_66:

(6, 40086), (7, 40095), (10, 40122), (Start: 15 @40305 has 47 MA's), (20, 40356), (27, 40485),

Gene: Johnathan\_63 Start: 39092, Stop: 39298, Start Num: 15

Candidate Starts for Johnathan\_63:

(Start: 15 @39092 has 47 MA's), (20, 39137), (24, 39221),

Gene: Kamdara\_60 Start: 39794, Stop: 40000, Start Num: 15

Candidate Starts for Kamdara\_60:

(Start: 15 @39794 has 47 MA's), (29, 39995),

Gene: Kate33\_68 Start: 40041, Stop: 40247, Start Num: 15

Candidate Starts for Kate33\_68:

(6, 39822), (7, 39831), (10, 39858), (Start: 15 @40041 has 47 MA's), (17, 40059), (20, 40086), (24, 40170),

Gene: Katzastrophic\_61 Start: 39830, Stop: 40036, Start Num: 15

Candidate Starts for Katzastrophic\_61:

(8, 39626), (Start: 15 @39830 has 47 MA's), (20, 39875), (29, 40031),

Gene: Kieran\_60 Start: 39797, Stop: 40003, Start Num: 15

Candidate Starts for Kieran\_60:

(Start: 15 @39797 has 47 MA's), (29, 39998),

Gene: LimaBean\_63 Start: 38986, Stop: 39192, Start Num: 15

Candidate Starts for LimaBean\_63:

(Start: 15 @38986 has 47 MA's), (20, 39031), (24, 39115),

Gene: Loviatar\_62 Start: 40584, Stop: 40790, Start Num: 15

Candidate Starts for Loviatar\_62:

(Start: 15 @40584 has 47 MA's), (20, 40629), (21, 40641), (23, 40698), (24, 40713),

Gene: PastaFagioli\_65 Start: 40264, Stop: 40470, Start Num: 15

Candidate Starts for PastaFagioli\_65:

(6, 40045), (7, 40054), (Start: 15 @40264 has 47 MA's), (20, 40309),

Gene: PhigPhack\_66 Start: 39688, Stop: 39894, Start Num: 15

Candidate Starts for PhigPhack\_66:

(6, 39469), (10, 39505), (14, 39637), (Start: 15 @39688 has 47 MA's), (20, 39733), (24, 39817),

Gene: Phisb\_65 Start: 39661, Stop: 39867, Start Num: 15

Candidate Starts for Phisb\_65:

(6, 39442), (10, 39478), (14, 39610), (Start: 15 @39661 has 47 MA's), (20, 39706), (24, 39790),

Gene: PondAmelia\_76 Start: 39543, Stop: 39749, Start Num: 15

Candidate Starts for PondAmelia\_76:

(Start: 15 @39543 has 47 MA's), (20, 39588), (21, 39600), (23, 39657), (24, 39672),

Gene: QMacho\_65 Start: 39792, Stop: 39998, Start Num: 15

Candidate Starts for QMacho\_65:

(Start: 15 @39792 has 47 MA's), (20, 39837), (24, 39921),

Gene: Quenya\_64 Start: 40220, Stop: 40420, Start Num: 15

Candidate Starts for Quenya\_64:

(5, 39992), (9, 40031), (11, 40043), (Start: 15 @40220 has 47 MA's), (18, 40244), (20, 40259), (29, 40415),

Gene: Rollins\_63 Start: 37784, Stop: 38002, Start Num: 15

Candidate Starts for Rollins\_63:

(Start: 15 @37784 has 47 MA's), (20, 37838), (28, 37979),

Gene: Rona\_61 Start: 39954, Stop: 40169, Start Num: 16

Candidate Starts for Rona\_61:

(Start: 16 @39954 has 6 MA's), (29, 40164),

Gene: SanaSana\_63 Start: 39927, Stop: 40133, Start Num: 15

Candidate Starts for SanaSana\_63:

(Start: 15 @39927 has 47 MA's), (20, 39972), (21, 39984), (23, 40041), (24, 40056),

Gene: SansAfet\_65 Start: 39637, Stop: 39843, Start Num: 15

Candidate Starts for SansAfet\_65:

(6, 39418), (10, 39454), (Start: 15 @39637 has 47 MA's), (20, 39682), (24, 39766),

Gene: Sharkboy\_63 Start: 40328, Stop: 40534, Start Num: 16

Candidate Starts for Sharkboy\_63:

(Start: 16 @40328 has 6 MA's), (20, 40373), (22, 40397), (29, 40529),

Gene: SirBeanington\_64 Start: 39896, Stop: 40102, Start Num: 15

Candidate Starts for SirBeanington\_64:

(6, 39677), (10, 39713), (Start: 15 @39896 has 47 MA's), (20, 39941), (24, 40025),

Gene: Skylord\_63 Start: 37701, Stop: 37919, Start Num: 15

Candidate Starts for Skylord\_63:

(Start: 15 @37701 has 47 MA's), (20, 37755), (28, 37896),

Gene: Slay\_65 Start: 40171, Stop: 40377, Start Num: 15

Candidate Starts for Slay\_65:

(Start: 15 @40171 has 47 MA's), (20, 40216), (25, 40324),

Gene: Softsoap\_65 Start: 39860, Stop: 40066, Start Num: 15

Candidate Starts for Softsoap\_65:

(6, 39641), (7, 39650), (10, 39677), (Start: 15 @39860 has 47 MA's), (20, 39905), (24, 39989),

Gene: Stoor\_61 Start: 39714, Stop: 39920, Start Num: 15

Candidate Starts for Stoor\_61:

(Start: 15 @39714 has 47 MA's), (20, 39759), (21, 39771), (23, 39828), (24, 39843),

Gene: Stromboli\_61 Start: 39515, Stop: 39721, Start Num: 15

Candidate Starts for Stromboli\_61:

(2, 39101), (4, 39281), (7, 39305), (Start: 15 @39515 has 47 MA's), (20, 39560), (23, 39629), (24, 39644),

Gene: Vitas\_63 Start: 37757, Stop: 37975, Start Num: 15

Candidate Starts for Vitas\_63:

(Start: 15 @37757 has 47 MA's), (20, 37811), (28, 37952),

Gene: WalkingDead\_64 Start: 40693, Stop: 40899, Start Num: 15

Candidate Starts for WalkingDead\_64:

(Start: 15 @40693 has 47 MA's), (20, 40738), (24, 40822),