

Pham 216319



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 216319 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216319 has 42 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Refuge\_60
- Track 2 : Zimmer\_60
- Track 3 : EdogawaKiddo\_62, RyeScarlet\_66, Myxus\_64, Phonnegut\_65, HortumSL17\_65, Tubs\_64, Aliter\_65, Phaeder\_64, Sachima\_60, Pioneer\_65, PackMan\_63, Catalina\_66, Beemo\_65
- Track 4 : Hanray\_63, Jiawan\_62, Onglai\_63, Qobbit\_63, ExplosioNervosa\_63, EmyBug\_62, Eidsmoe\_63, Conquerage\_63, Holec\_63, Alma\_63, Lilleskat\_61, Spouty\_63, Fayely\_63, Priya\_63
- Track 5 : Vanisoa\_64
- Track 6 : LoneWolf\_65
- Track 7 : Scherzo\_65, Ugenie5\_61
- Track 8 : Keziacharles14\_64
- Track 9 : Charm\_62, DreamTeam1\_62
- Track 10 : Arissanae\_63
- Track 11 : Elephantoon\_63
- Track 12 : Toaka\_65
- Track 13 : BogosyJay\_63, Maminiaina\_63
- Track 14 : Rahalelujah\_64

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

The start number called the most often in the published annotations is 9, it was called in 33 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aliter\_65, Alma\_63, Beemo\_65, BogosyJay\_63, Catalina\_66, Charm\_62, Conquerage\_63, DreamTeam1\_62, EdogawaKiddo\_62, Eidsmoe\_63, Elephantoon\_63, EmyBug\_62, ExplosioNervosa\_63, Fayely\_63, Hanray\_63, Holec\_63, HortumSL17\_65, Jiawan\_62, Keziacharles14\_64, Lilleskat\_61, LoneWolf\_65, Maminiaina\_63, Myxus\_64, Onglai\_63, PackMan\_63, Phaeder\_64, Phonnegut\_65, Pioneer\_65, Priya\_63, Qobbit\_63, Rahalelujah\_64, Refuge\_60, RyeScarlet\_66, Sachima\_60, Scherzo\_65, Spouty\_63, Toaka\_65, Tubs\_64, Ugenie5\_61, Vanisoa\_64, Zimmer\_60,

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:

- Arissanae\_63,

### Summary by start number:

Start 9:

- Found in 41 of 42 ( 97.6% ) of genes in pham
- Manual Annotations of this start: 33 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aliter\_65 (A9), Alma\_63 (A9), Beemo\_65 (A9), BogosyJay\_63 (A9), Catalina\_66 (A9), Charm\_62 (A9), Conquerage\_63 (A9), DreamTeam1\_62 (A9), EdogawaKiddo\_62 (A9), Eidsmoe\_63 (A9), Elephantoon\_63 (A9), EmyBug\_62 (A9), ExplosioNervosa\_63 (A9), Fayely\_63 (A9), Hanray\_63 (A9), Horex\_63 (A9), HortumSL17\_65 (A9), Jiawan\_62 (A9), Keziacharles14\_64 (A9), Lilleskat\_61 (A9), LoneWolf\_65 (A9), Maminiaina\_63 (A9), Myxus\_64 (A9), Onglai\_63 (A9), PackMan\_63 (A9), Phaeder\_64 (A9), Phonnegut\_65 (A9), Pioneer\_65 (A9), Priya\_63 (A9), Qobbit\_63 (A9), Rahalelujah\_64 (A9), Refuge\_60 (A12), RyeScarlet\_66 (A9), Sachima\_60 (A9), Scherzo\_65 (A9), Spouty\_63 (A9), Toaka\_65 (A9), Tubs\_64 (A9), Ugenie5\_61 (A9), Vanisoa\_64 (A9), Zimmer\_60 (A12),

Start 10:

- Found in 1 of 42 ( 2.4% ) of genes in pham
- Manual Annotations of this start: 1 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arissanae\_63 (A9),

### Summary by clusters:

There are 2 clusters represented in this pham: A9, A12,

Info for manual annotations of cluster A12:

- Start number 9 was manually annotated 2 times for cluster A12.

Info for manual annotations of cluster A9:

- Start number 9 was manually annotated 31 times for cluster A9.
- Start number 10 was manually annotated 1 time for cluster A9.

### Gene Information:

Gene: Aliter\_65 Start: 40065, Stop: 39910, Start Num: 9

Candidate Starts for Aliter\_65:

(8, 40089), (Start: 9 @40065 has 33 MA's), (13, 40038), (17, 39972),

Gene: Alma\_63 Start: 40097, Stop: 39942, Start Num: 9

Candidate Starts for Alma\_63:

(2, 40385), (Start: 9 @40097 has 33 MA's), (13, 40070), (17, 40004),

Gene: Arissanae\_63 Start: 40631, Stop: 40476, Start Num: 10

Candidate Starts for Arissanae\_63:  
(7, 40658), (Start: 10 @40631 has 1 MA's), (13, 40604), (17, 40538),

Gene: Beemo\_65 Start: 40235, Stop: 40080, Start Num: 9  
Candidate Starts for Beemo\_65:  
(8, 40259), (Start: 9 @40235 has 33 MA's), (13, 40208), (17, 40142),

Gene: BogosyJay\_63 Start: 40035, Stop: 39877, Start Num: 9  
Candidate Starts for BogosyJay\_63:  
(Start: 9 @40035 has 33 MA's), (13, 40005), (17, 39939),

Gene: Catalina\_66 Start: 40138, Stop: 39983, Start Num: 9  
Candidate Starts for Catalina\_66:  
(8, 40162), (Start: 9 @40138 has 33 MA's), (13, 40111), (17, 40045),

Gene: Charm\_62 Start: 39763, Stop: 39614, Start Num: 9  
Candidate Starts for Charm\_62:  
(Start: 9 @39763 has 33 MA's), (13, 39736), (16, 39685), (17, 39670),

Gene: Conquerage\_63 Start: 39866, Stop: 39711, Start Num: 9  
Candidate Starts for Conquerage\_63:  
(2, 40154), (Start: 9 @39866 has 33 MA's), (13, 39839), (17, 39773),

Gene: DreamTeam1\_62 Start: 39595, Stop: 39446, Start Num: 9  
Candidate Starts for DreamTeam1\_62:  
(Start: 9 @39595 has 33 MA's), (13, 39568), (16, 39517), (17, 39502),

Gene: EdogawaKiddo\_62 Start: 40105, Stop: 39947, Start Num: 9  
Candidate Starts for EdogawaKiddo\_62:  
(8, 40129), (Start: 9 @40105 has 33 MA's), (13, 40078), (17, 40012),

Gene: Eidsmoe\_63 Start: 39858, Stop: 39703, Start Num: 9  
Candidate Starts for Eidsmoe\_63:  
(2, 40146), (Start: 9 @39858 has 33 MA's), (13, 39831), (17, 39765),

Gene: Elephantoon\_63 Start: 39445, Stop: 39290, Start Num: 9  
Candidate Starts for Elephantoon\_63:  
(8, 39469), (Start: 9 @39445 has 33 MA's), (13, 39418), (17, 39352),

Gene: EmyBug\_62 Start: 39860, Stop: 39705, Start Num: 9  
Candidate Starts for EmyBug\_62:  
(2, 40148), (Start: 9 @39860 has 33 MA's), (13, 39833), (17, 39767),

Gene: ExplosioNervosa\_63 Start: 39926, Stop: 39771, Start Num: 9  
Candidate Starts for ExplosioNervosa\_63:  
(2, 40214), (Start: 9 @39926 has 33 MA's), (13, 39899), (17, 39833),

Gene: Fayely\_63 Start: 39827, Stop: 39672, Start Num: 9  
Candidate Starts for Fayely\_63:  
(2, 40115), (Start: 9 @39827 has 33 MA's), (13, 39800), (17, 39734),

Gene: Hanray\_63 Start: 40190, Stop: 40035, Start Num: 9  
Candidate Starts for Hanray\_63:

(2, 40478), (Start: 9 @40190 has 33 MA's), (13, 40163), (17, 40097),

Gene: Holec\_63 Start: 40206, Stop: 40051, Start Num: 9

Candidate Starts for Holec\_63:

(2, 40494), (Start: 9 @40206 has 33 MA's), (13, 40179), (17, 40113),

Gene: HortumSL17\_65 Start: 40137, Stop: 39982, Start Num: 9

Candidate Starts for HortumSL17\_65:

(8, 40161), (Start: 9 @40137 has 33 MA's), (13, 40110), (17, 40044),

Gene: Jiawan\_62 Start: 40222, Stop: 40067, Start Num: 9

Candidate Starts for Jiawan\_62:

(2, 40510), (Start: 9 @40222 has 33 MA's), (13, 40195), (17, 40129),

Gene: Keziacharles14\_64 Start: 41212, Stop: 41060, Start Num: 9

Candidate Starts for Keziacharles14\_64:

(3, 41485), (Start: 9 @41212 has 33 MA's), (13, 41182), (14, 41179), (17, 41116),

Gene: Lilleskat\_61 Start: 40058, Stop: 39900, Start Num: 9

Candidate Starts for Lilleskat\_61:

(2, 40346), (Start: 9 @40058 has 33 MA's), (13, 40031), (17, 39965),

Gene: LoneWolf\_65 Start: 40176, Stop: 40018, Start Num: 9

Candidate Starts for LoneWolf\_65:

(8, 40197), (Start: 9 @40176 has 33 MA's), (13, 40149),

Gene: Maminiaina\_63 Start: 40017, Stop: 39859, Start Num: 9

Candidate Starts for Maminiaina\_63:

(Start: 9 @40017 has 33 MA's), (13, 39987), (17, 39921),

Gene: Myxus\_64 Start: 40137, Stop: 39982, Start Num: 9

Candidate Starts for Myxus\_64:

(8, 40161), (Start: 9 @40137 has 33 MA's), (13, 40110), (17, 40044),

Gene: Onglai\_63 Start: 38478, Stop: 38323, Start Num: 9

Candidate Starts for Onglai\_63:

(2, 38766), (Start: 9 @38478 has 33 MA's), (13, 38451), (17, 38385),

Gene: PackMan\_63 Start: 40012, Stop: 39857, Start Num: 9

Candidate Starts for PackMan\_63:

(8, 40036), (Start: 9 @40012 has 33 MA's), (13, 39985), (17, 39919),

Gene: Phaeder\_64 Start: 40012, Stop: 39857, Start Num: 9

Candidate Starts for Phaeder\_64:

(8, 40036), (Start: 9 @40012 has 33 MA's), (13, 39985), (17, 39919),

Gene: Phonnegut\_65 Start: 40234, Stop: 40079, Start Num: 9

Candidate Starts for Phonnegut\_65:

(8, 40258), (Start: 9 @40234 has 33 MA's), (13, 40207), (17, 40141),

Gene: Pioneer\_65 Start: 40234, Stop: 40079, Start Num: 9

Candidate Starts for Pioneer\_65:

(8, 40258), (Start: 9 @40234 has 33 MA's), (13, 40207), (17, 40141),

Gene: Priya\_63 Start: 39861, Stop: 39706, Start Num: 9

Candidate Starts for Priya\_63:

(2, 40149), (Start: 9 @39861 has 33 MA's), (13, 39834), (17, 39768),

Gene: Qobbit\_63 Start: 39823, Stop: 39668, Start Num: 9

Candidate Starts for Qobbit\_63:

(2, 40111), (Start: 9 @39823 has 33 MA's), (13, 39796), (17, 39730),

Gene: Rahalelujah\_64 Start: 39776, Stop: 39618, Start Num: 9

Candidate Starts for Rahalelujah\_64:

(5, 40019), (8, 39797), (Start: 9 @39776 has 33 MA's), (13, 39749), (15, 39725), (16, 39698),

Gene: Refuge\_60 Start: 41000, Stop: 40842, Start Num: 9

Candidate Starts for Refuge\_60:

(6, 41144), (7, 41024), (8, 41021), (Start: 9 @41000 has 33 MA's), (13, 40970), (15, 40946), (18, 40850),

Gene: RyeScarlet\_66 Start: 40209, Stop: 40054, Start Num: 9

Candidate Starts for RyeScarlet\_66:

(8, 40233), (Start: 9 @40209 has 33 MA's), (13, 40182), (17, 40116),

Gene: Sachima\_60 Start: 40038, Stop: 39880, Start Num: 9

Candidate Starts for Sachima\_60:

(8, 40062), (Start: 9 @40038 has 33 MA's), (13, 40011), (17, 39945),

Gene: Scherzo\_65 Start: 40426, Stop: 40268, Start Num: 9

Candidate Starts for Scherzo\_65:

(Start: 9 @40426 has 33 MA's), (13, 40396), (17, 40330),

Gene: Spouty\_63 Start: 39860, Stop: 39705, Start Num: 9

Candidate Starts for Spouty\_63:

(2, 40148), (Start: 9 @39860 has 33 MA's), (13, 39833), (17, 39767),

Gene: Toaka\_65 Start: 40248, Stop: 40090, Start Num: 9

Candidate Starts for Toaka\_65:

(5, 40491), (Start: 9 @40248 has 33 MA's), (13, 40221), (15, 40197),

Gene: Tubs\_64 Start: 40012, Stop: 39857, Start Num: 9

Candidate Starts for Tubs\_64:

(8, 40036), (Start: 9 @40012 has 33 MA's), (13, 39985), (17, 39919),

Gene: Ugenie5\_61 Start: 40425, Stop: 40267, Start Num: 9

Candidate Starts for Ugenie5\_61:

(Start: 9 @40425 has 33 MA's), (13, 40395), (17, 40329),

Gene: Vanisoa\_64 Start: 41119, Stop: 40961, Start Num: 9

Candidate Starts for Vanisoa\_64:

(Start: 9 @41119 has 33 MA's), (12, 41098), (13, 41089), (17, 41023),

Gene: Zimmer\_60 Start: 40828, Stop: 40670, Start Num: 9

Candidate Starts for Zimmer\_60:

(1, 41128), (4, 41065), (8, 40849), (Start: 9 @40828 has 33 MA's), (11, 40822), (13, 40801),

