



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 216407 Report

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

Pham number 216407 has 32 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Dylan\_25, Smooch\_29, Idergollasper\_25, Ryadel\_28, Schuy\_27, Familton\_26, JangDynasty\_25, Zakhe101\_26, Ashwin\_27, Mori\_26, Wildflower\_26, Alkhayr\_24, FoulBall\_25, MadKillah\_27, Krili\_26, TelAviv\_23, SchoolBus\_25, Shida\_26, Corndog\_28, Zebo\_24, Wogge42\_25, Firecracker\_26, Catdawg\_25, Murai\_26, Blessica\_26, Vorrps\_26, YungJamal\_28, KingPhillip3\_23
- Track 2 : NiebruSaylor\_26
- Track 3 : Vagabond\_26, Winget\_26
- Track 4 : Bora\_24

### ***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 28 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alkhayr\_24, Ashwin\_27, Blessica\_26, Bora\_24, Catdawg\_25, Corndog\_28, Dylan\_25, Familton\_26, Firecracker\_26, FoulBall\_25, Idergollasper\_25, JangDynasty\_25, KingPhillip3\_23, Krili\_26, MadKillah\_27, Mori\_26, Murai\_26, NiebruSaylor\_26, Ryadel\_28, SchoolBus\_25, Schuy\_27, Shida\_26, Smooch\_29, TelAviv\_23, Vagabond\_26, Vorrps\_26, Wildflower\_26, Winget\_26, Wogge42\_25, YungJamal\_28, Zakhe101\_26, Zebo\_24,

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

- 

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

- 

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

Start 4:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 28 of 28
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Alkhayr\_24 (O), Ashwin\_27 (O), Blessica\_26 (O), Bora\_24 (O), Catdawg\_25 (O), Corndog\_28 (O), Dylan\_25 (O), Familton\_26 (O), Firecracker\_26 (O), FoulBall\_25 (O), Idergollasper\_25 (O), JangDynasty\_25 (O), KingPhillip3\_23 (O), Krili\_26 (O), MadKillah\_27 (O), Mori\_26 (O), Murai\_26 (O), NiebruSaylor\_26 (O), Ryadel\_28 (O), SchoolBus\_25 (O), Schuy\_27 (O), Shida\_26 (O), Smooch\_29 (O), TelAviv\_23 (O), Vagabond\_26 (O), Vorrrps\_26 (O), Wildflower\_26 (O), Winget\_26 (O), Wogge42\_25 (O), YungJamal\_28 (O), Zakhe101\_26 (O), Zebo\_24 (O),

### **Summary by clusters:**

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

•Start number 4 was manually annotated 28 times for cluster O.

### **Gene Information:**

Gene: Alkhayr\_24 Start: 11847, Stop: 12083, Start Num: 4

Candidate Starts for Alkhayr\_24:

(1, 11712), (2, 11823), (3, 11835), (Start: 4 @11847 has 28 MA's), (5, 11982), (6, 11985), (7, 11991), (8, 11994), (9, 12024), (10, 12060), (11, 12066),

Gene: Ashwin\_27 Start: 12067, Stop: 12303, Start Num: 4

Candidate Starts for Ashwin\_27:

(1, 11932), (2, 12043), (3, 12055), (Start: 4 @12067 has 28 MA's), (5, 12202), (6, 12205), (7, 12211), (8, 12214), (9, 12244), (10, 12280), (11, 12286),

Gene: Blessica\_26 Start: 11870, Stop: 12106, Start Num: 4

Candidate Starts for Blessica\_26:

(1, 11735), (2, 11846), (3, 11858), (Start: 4 @11870 has 28 MA's), (5, 12005), (6, 12008), (7, 12014), (8, 12017), (9, 12047), (10, 12083), (11, 12089),

Gene: Bora\_24 Start: 11520, Stop: 11756, Start Num: 4

Candidate Starts for Bora\_24:

(2, 11496), (3, 11508), (Start: 4 @11520 has 28 MA's), (5, 11655), (6, 11658), (7, 11664), (8, 11667), (9, 11697), (10, 11733), (11, 11739),

Gene: Catdawg\_25 Start: 11476, Stop: 11712, Start Num: 4

Candidate Starts for Catdawg\_25:

(1, 11341), (2, 11452), (3, 11464), (Start: 4 @11476 has 28 MA's), (5, 11611), (6, 11614), (7, 11620), (8, 11623), (9, 11653), (10, 11689), (11, 11695),

Gene: Corndog\_28 Start: 12146, Stop: 12382, Start Num: 4

Candidate Starts for Corndog\_28:

(1, 12011), (2, 12122), (3, 12134), (Start: 4 @12146 has 28 MA's), (5, 12281), (6, 12284), (7, 12290), (8, 12293), (9, 12323), (10, 12359), (11, 12365),

Gene: Dylan\_25 Start: 11872, Stop: 12108, Start Num: 4

Candidate Starts for Dylan\_25:

(1, 11737), (2, 11848), (3, 11860), (Start: 4 @11872 has 28 MA's), (5, 12007), (6, 12010), (7, 12016), (8, 12019), (9, 12049), (10, 12085), (11, 12091),

Gene: Familton\_26 Start: 11477, Stop: 11713, Start Num: 4

Candidate Starts for Familton\_26:

(1, 11342), (2, 11453), (3, 11465), (Start: 4 @11477 has 28 MA's), (5, 11612), (6, 11615), (7, 11621), (8, 11624), (9, 11654), (10, 11690), (11, 11696),

Gene: Firecracker\_26 Start: 11770, Stop: 12006, Start Num: 4

Candidate Starts for Firecracker\_26:

(1, 11635), (2, 11746), (3, 11758), (Start: 4 @11770 has 28 MA's), (5, 11905), (6, 11908), (7, 11914), (8, 11917), (9, 11947), (10, 11983), (11, 11989),

Gene: FoulBall\_25 Start: 11477, Stop: 11713, Start Num: 4

Candidate Starts for FoulBall\_25:

(1, 11342), (2, 11453), (3, 11465), (Start: 4 @11477 has 28 MA's), (5, 11612), (6, 11615), (7, 11621), (8, 11624), (9, 11654), (10, 11690), (11, 11696),

Gene: Idergollasper\_25 Start: 11477, Stop: 11713, Start Num: 4

Candidate Starts for Idergollasper\_25:

(1, 11342), (2, 11453), (3, 11465), (Start: 4 @11477 has 28 MA's), (5, 11612), (6, 11615), (7, 11621), (8, 11624), (9, 11654), (10, 11690), (11, 11696),

Gene: JangDynasty\_25 Start: 11566, Stop: 11802, Start Num: 4

Candidate Starts for JangDynasty\_25:

(1, 11431), (2, 11542), (3, 11554), (Start: 4 @11566 has 28 MA's), (5, 11701), (6, 11704), (7, 11710), (8, 11713), (9, 11743), (10, 11779), (11, 11785),

Gene: KingPhillip3\_23 Start: 11477, Stop: 11713, Start Num: 4

Candidate Starts for KingPhillip3\_23:

(1, 11342), (2, 11453), (3, 11465), (Start: 4 @11477 has 28 MA's), (5, 11612), (6, 11615), (7, 11621), (8, 11624), (9, 11654), (10, 11690), (11, 11696),

Gene: Krili\_26 Start: 11836, Stop: 12072, Start Num: 4

Candidate Starts for Krili\_26:

(1, 11701), (2, 11812), (3, 11824), (Start: 4 @11836 has 28 MA's), (5, 11971), (6, 11974), (7, 11980), (8, 11983), (9, 12013), (10, 12049), (11, 12055),

Gene: MadKillah\_27 Start: 11869, Stop: 12105, Start Num: 4

Candidate Starts for MadKillah\_27:

(1, 11734), (2, 11845), (3, 11857), (Start: 4 @11869 has 28 MA's), (5, 12004), (6, 12007), (7, 12013), (8, 12016), (9, 12046), (10, 12082), (11, 12088),

Gene: Mori\_26 Start: 11707, Stop: 11943, Start Num: 4

Candidate Starts for Mori\_26:

(1, 11572), (2, 11683), (3, 11695), (Start: 4 @11707 has 28 MA's), (5, 11842), (6, 11845), (7, 11851), (8, 11854), (9, 11884), (10, 11920), (11, 11926),

Gene: Murai\_26 Start: 11708, Stop: 11944, Start Num: 4

Candidate Starts for Murai\_26:

(1, 11573), (2, 11684), (3, 11696), (Start: 4 @11708 has 28 MA's), (5, 11843), (6, 11846), (7, 11852), (8, 11855), (9, 11885), (10, 11921), (11, 11927),

Gene: NiebruSaylor\_26 Start: 11708, Stop: 11944, Start Num: 4

Candidate Starts for NiebruSaylor\_26:

(1, 11573), (2, 11684), (3, 11696), (Start: 4 @11708 has 28 MA's), (5, 11843), (6, 11846), (7, 11852), (8, 11855), (9, 11885), (10, 11921), (11, 11927),

Gene: Ryadel\_28 Start: 12290, Stop: 12526, Start Num: 4

Candidate Starts for Ryadel\_28:

(1, 12155), (2, 12266), (3, 12278), (Start: 4 @12290 has 28 MA's), (5, 12425), (6, 12428), (7, 12434), (8, 12437), (9, 12467), (10, 12503), (11, 12509),

Gene: SchoolBus\_25 Start: 11477, Stop: 11713, Start Num: 4

Candidate Starts for SchoolBus\_25:

(1, 11342), (2, 11453), (3, 11465), (Start: 4 @11477 has 28 MA's), (5, 11612), (6, 11615), (7, 11621), (8, 11624), (9, 11654), (10, 11690), (11, 11696),

Gene: Schuy\_27 Start: 11869, Stop: 12105, Start Num: 4

Candidate Starts for Schuy\_27:

(1, 11734), (2, 11845), (3, 11857), (Start: 4 @11869 has 28 MA's), (5, 12004), (6, 12007), (7, 12013), (8, 12016), (9, 12046), (10, 12082), (11, 12088),

Gene: Shida\_26 Start: 11774, Stop: 12010, Start Num: 4

Candidate Starts for Shida\_26:

(1, 11639), (2, 11750), (3, 11762), (Start: 4 @11774 has 28 MA's), (5, 11909), (6, 11912), (7, 11918), (8, 11921), (9, 11951), (10, 11987), (11, 11993),

Gene: Smooch\_29 Start: 13223, Stop: 13459, Start Num: 4

Candidate Starts for Smooch\_29:

(1, 13088), (2, 13199), (3, 13211), (Start: 4 @13223 has 28 MA's), (5, 13358), (6, 13361), (7, 13367), (8, 13370), (9, 13400), (10, 13436), (11, 13442),

Gene: TelAviv\_23 Start: 11474, Stop: 11710, Start Num: 4

Candidate Starts for TelAviv\_23:

(1, 11339), (2, 11450), (3, 11462), (Start: 4 @11474 has 28 MA's), (5, 11609), (6, 11612), (7, 11618), (8, 11621), (9, 11651), (10, 11687), (11, 11693),

Gene: Vagabond\_26 Start: 11751, Stop: 11987, Start Num: 4

Candidate Starts for Vagabond\_26:

(1, 11616), (2, 11727), (3, 11739), (Start: 4 @11751 has 28 MA's), (5, 11886), (6, 11889), (7, 11895), (8, 11898), (9, 11928), (10, 11964), (11, 11970),

Gene: Vorrps\_26 Start: 11708, Stop: 11944, Start Num: 4

Candidate Starts for Vorrps\_26:

(1, 11573), (2, 11684), (3, 11696), (Start: 4 @11708 has 28 MA's), (5, 11843), (6, 11846), (7, 11852), (8, 11855), (9, 11885), (10, 11921), (11, 11927),

Gene: Wildflower\_26 Start: 11731, Stop: 11967, Start Num: 4

Candidate Starts for Wildflower\_26:

(1, 11596), (2, 11707), (3, 11719), (Start: 4 @11731 has 28 MA's), (5, 11866), (6, 11869), (7, 11875), (8, 11878), (9, 11908), (10, 11944), (11, 11950),

Gene: Winget\_26 Start: 11750, Stop: 11986, Start Num: 4

Candidate Starts for Winget\_26:

(1, 11615), (2, 11726), (3, 11738), (Start: 4 @11750 has 28 MA's), (5, 11885), (6, 11888), (7, 11894), (8, 11897), (9, 11927), (10, 11963), (11, 11969),

Gene: Wogge42\_25 Start: 11839, Stop: 12075, Start Num: 4

Candidate Starts for Wogge42\_25:

(1, 11704), (2, 11815), (3, 11827), (Start: 4 @11839 has 28 MA's), (5, 11974), (6, 11977), (7, 11983), (8, 11986), (9, 12016), (10, 12052), (11, 12058),

Gene: YungJamal\_28 Start: 12026, Stop: 12262, Start Num: 4

Candidate Starts for YungJamal\_28:

(1, 11891), (2, 12002), (3, 12014), (Start: 4 @12026 has 28 MA's), (5, 12161), (6, 12164), (7, 12170), (8, 12173), (9, 12203), (10, 12239), (11, 12245),

Gene: Zakhe101\_26 Start: 11876, Stop: 12112, Start Num: 4

Candidate Starts for Zakhe101\_26:

(1, 11741), (2, 11852), (3, 11864), (Start: 4 @11876 has 28 MA's), (5, 12011), (6, 12014), (7, 12020), (8, 12023), (9, 12053), (10, 12089), (11, 12095),

Gene: Zebo\_24 Start: 11477, Stop: 11713, Start Num: 4

Candidate Starts for Zebo\_24:

(1, 11342), (2, 11453), (3, 11465), (Start: 4 @11477 has 28 MA's), (5, 11612), (6, 11615), (7, 11621), (8, 11624), (9, 11654), (10, 11690), (11, 11696),