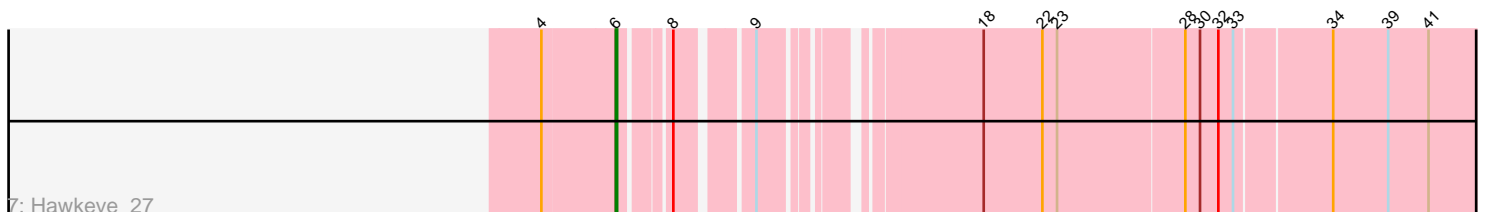
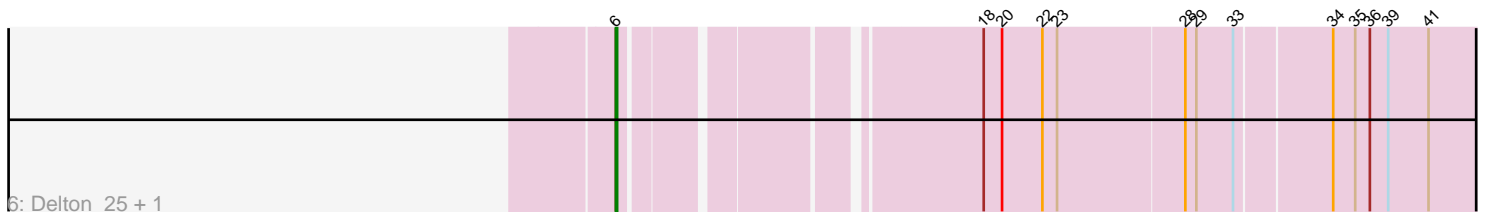
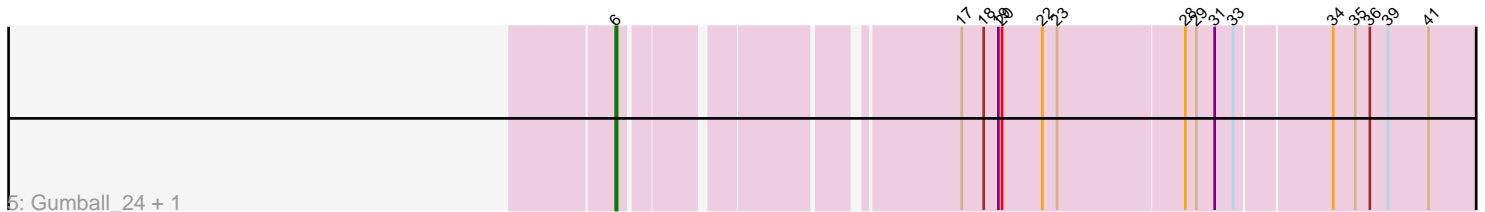
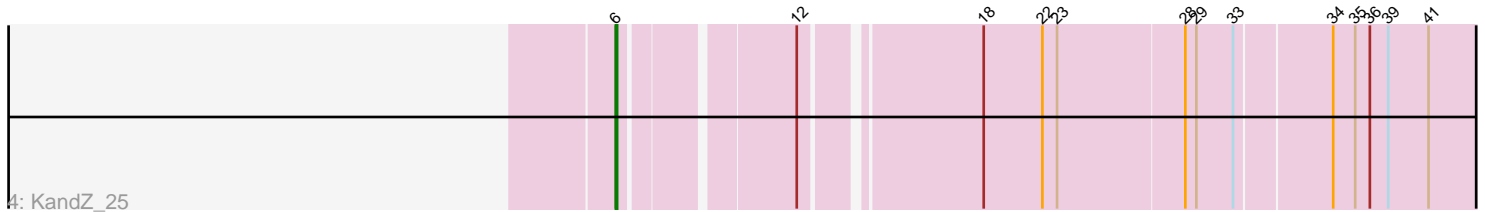
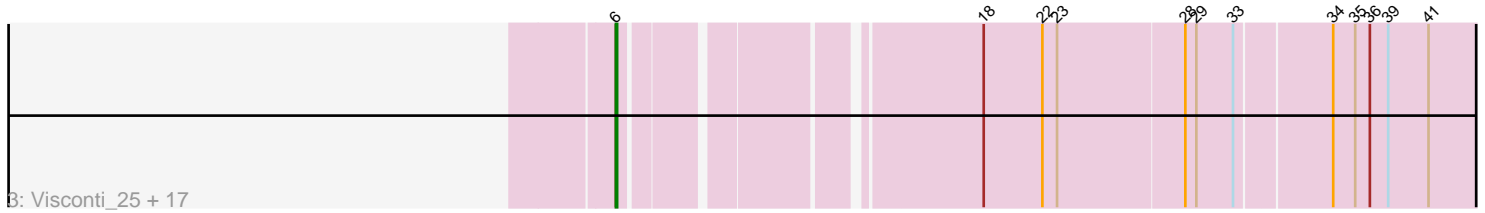
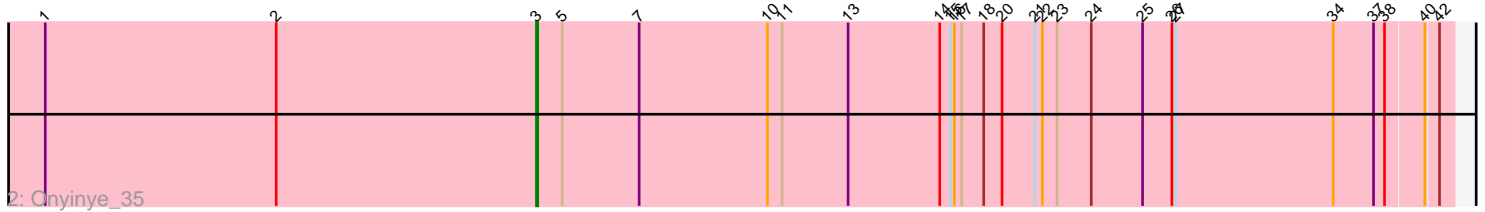
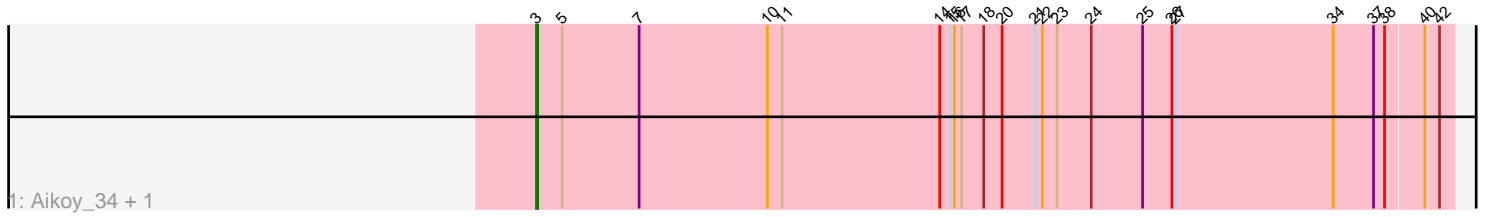


# Pham 311918



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 311918 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311918 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Aikoy\_34, Leopard\_34
- Track 2 : Onyinye\_35
- Track 3 : Visconti\_25, Prager\_25, WaldoWhy\_26, Chill\_26, SuperheroCarly\_25, Nova\_25, Butterscotch\_25, Helpful\_26, Troll4\_25, PLOT\_26, Giuseppe\_25, Adjutor\_26, Penelope2018\_25, Erk16\_25, BigMama\_23, Thoth\_25, Mopey\_25, PBI1\_25
- Track 4 : KandZ\_25
- Track 5 : Gumball\_24, SirHarley\_24
- Track 6 : Delton\_25, Phalaborwa\_25
- Track 7 : Hawkeye\_27

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

The start number called the most often in the published annotations is 6, it was called in 23 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adjutor\_26, BigMama\_23, Butterscotch\_25, Chill\_26, Delton\_25, Erk16\_25, Giuseppe\_25, Gumball\_24, Hawkeye\_27, Helpful\_26, KandZ\_25, Mopey\_25, Nova\_25, PBI1\_25, PLOT\_26, Penelope2018\_25, Phalaborwa\_25, Prager\_25, SirHarley\_24, SuperheroCarly\_25, Thoth\_25, Troll4\_25, Visconti\_25, WaldoWhy\_26,

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

- 

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

- Aikoy\_34, Leopard\_34, Onyinye\_35,

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

Start 3:

- Found in 3 of 27 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 3 of 26
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Aikoy\_34 (AE), Leopard\_34 (AE), Onyinye\_35 (AE),

Start 6:

- Found in 24 of 27 ( 88.9% ) of genes in pham
- Manual Annotations of this start: 23 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adjutor\_26 (D1), BigMama\_23 (D1), Butterscotch\_25 (D1), Chill\_26 (D1), Delton\_25 (D1), Erk16\_25 (D1), Giuseppe\_25 (D1), Gumball\_24 (D1), Hawkeye\_27 (D2), Helpful\_26 (D1), KandZ\_25 (D1), Mopey\_25 (D1), Nova\_25 (D1), PBI1\_25 (D1), PLOT\_26 (D1), Penelope2018\_25 (D1), Phalaborwa\_25 (D1), Prager\_25 (D1), SirHarley\_24 (D1), SuperheroCarly\_25 (D1), Thoth\_25 (D1), Troll4\_25 (D1), Visconti\_25 (D1), WaldoWhy\_26 (D1),

### Summary by clusters:

There are 3 clusters represented in this pham: D2, AE, D1,

Info for manual annotations of cluster AE:

- Start number 3 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster D1:

- Start number 6 was manually annotated 22 times for cluster D1.

Info for manual annotations of cluster D2:

- Start number 6 was manually annotated 1 time for cluster D2.

### Gene Information:

Gene: Adjutor\_26 Start: 15426, Stop: 16079, Start Num: 6

Candidate Starts for Adjutor\_26:

(Start: 6 @15426 has 23 MA's), (18, 15681), (22, 15729), (23, 15741), (28, 15843), (29, 15852), (33, 15882), (34, 15954), (35, 15972), (36, 15984), (39, 15999), (41, 16032),

Gene: Aikoy\_34 Start: 21049, Stop: 21792, Start Num: 3

Candidate Starts for Aikoy\_34:

(Start: 3 @21049 has 3 MA's), (5, 21070), (7, 21133), (10, 21238), (11, 21250), (14, 21379), (15, 21388), (16, 21391), (17, 21397), (18, 21415), (20, 21430), (21, 21457), (22, 21463), (23, 21475), (24, 21502), (25, 21544), (26, 21568), (27, 21571), (34, 21700), (37, 21733), (38, 21742), (40, 21772), (42, 21781),

Gene: BigMama\_23 Start: 15502, Stop: 16155, Start Num: 6

Candidate Starts for BigMama\_23:

(Start: 6 @15502 has 23 MA's), (18, 15757), (22, 15805), (23, 15817), (28, 15919), (29, 15928), (33, 15958), (34, 16030), (35, 16048), (36, 16060), (39, 16075), (41, 16108),

Gene: Butterscotch\_25 Start: 15486, Stop: 16139, Start Num: 6

Candidate Starts for Butterscotch\_25:

(Start: 6 @15486 has 23 MA's), (18, 15741), (22, 15789), (23, 15801), (28, 15903), (29, 15912), (33, 15942), (34, 16014), (35, 16032), (36, 16044), (39, 16059), (41, 16092),

Gene: Chill\_26 Start: 15492, Stop: 16145, Start Num: 6

Candidate Starts for Chill\_26:

(Start: 6 @15492 has 23 MA's), (18, 15747), (22, 15795), (23, 15807), (28, 15909), (29, 15918), (33, 15948), (34, 16020), (35, 16038), (36, 16050), (39, 16065), (41, 16098),

Gene: Delton\_25 Start: 15498, Stop: 16151, Start Num: 6

Candidate Starts for Delton\_25:

(Start: 6 @15498 has 23 MA's), (18, 15753), (20, 15768), (22, 15801), (23, 15813), (28, 15915), (29, 15924), (33, 15954), (34, 16026), (35, 16044), (36, 16056), (39, 16071), (41, 16104),

Gene: Erk16\_25 Start: 15489, Stop: 16142, Start Num: 6

Candidate Starts for Erk16\_25:

(Start: 6 @15489 has 23 MA's), (18, 15744), (22, 15792), (23, 15804), (28, 15906), (29, 15915), (33, 15945), (34, 16017), (35, 16035), (36, 16047), (39, 16062), (41, 16095),

Gene: Giuseppe\_25 Start: 15478, Stop: 16131, Start Num: 6

Candidate Starts for Giuseppe\_25:

(Start: 6 @15478 has 23 MA's), (18, 15733), (22, 15781), (23, 15793), (28, 15895), (29, 15904), (33, 15934), (34, 16006), (35, 16024), (36, 16036), (39, 16051), (41, 16084),

Gene: Gumball\_24 Start: 15436, Stop: 16089, Start Num: 6

Candidate Starts for Gumball\_24:

(Start: 6 @15436 has 23 MA's), (17, 15673), (18, 15691), (19, 15703), (20, 15706), (22, 15739), (23, 15751), (28, 15853), (29, 15862), (31, 15877), (33, 15892), (34, 15964), (35, 15982), (36, 15994), (39, 16009), (41, 16042),

Gene: Hawkeye\_27 Start: 15385, Stop: 16014, Start Num: 6

Candidate Starts for Hawkeye\_27:

(4, 15328), (Start: 6 @15385 has 23 MA's), (8, 15418), (9, 15469), (18, 15616), (22, 15664), (23, 15676), (28, 15778), (30, 15790), (32, 15805), (33, 15817), (34, 15889), (39, 15934), (41, 15967),

Gene: Helpful\_26 Start: 15486, Stop: 16139, Start Num: 6

Candidate Starts for Helpful\_26:

(Start: 6 @15486 has 23 MA's), (18, 15741), (22, 15789), (23, 15801), (28, 15903), (29, 15912), (33, 15942), (34, 16014), (35, 16032), (36, 16044), (39, 16059), (41, 16092),

Gene: KandZ\_25 Start: 15586, Stop: 16239, Start Num: 6

Candidate Starts for KandZ\_25:

(Start: 6 @15586 has 23 MA's), (12, 15712), (18, 15841), (22, 15889), (23, 15901), (28, 16003), (29, 16012), (33, 16042), (34, 16114), (35, 16132), (36, 16144), (39, 16159), (41, 16192),

Gene: Leopard\_34 Start: 21337, Stop: 22080, Start Num: 3

Candidate Starts for Leopard\_34:

(Start: 3 @21337 has 3 MA's), (5, 21358), (7, 21421), (10, 21526), (11, 21538), (14, 21667), (15, 21676), (16, 21679), (17, 21685), (18, 21703), (20, 21718), (21, 21745), (22, 21751), (23, 21763), (24, 21790), (25, 21832), (26, 21856), (27, 21859), (34, 21988), (37, 22021), (38, 22030), (40, 22060), (42, 22069),

Gene: Mopey\_25 Start: 15486, Stop: 16139, Start Num: 6

Candidate Starts for Mopey\_25:

(Start: 6 @15486 has 23 MA's), (18, 15741), (22, 15789), (23, 15801), (28, 15903), (29, 15912), (33, 15942), (34, 16014), (35, 16032), (36, 16044), (39, 16059), (41, 16092),

Gene: Nova\_25 Start: 15913, Stop: 16566, Start Num: 6

Candidate Starts for Nova\_25:

(Start: 6 @15913 has 23 MA's), (18, 16168), (22, 16216), (23, 16228), (28, 16330), (29, 16339), (33, 16369), (34, 16441), (35, 16459), (36, 16471), (39, 16486), (41, 16519),

Gene: Onyinye\_35 Start: 21216, Stop: 21959, Start Num: 3

Candidate Starts for Onyinye\_35:

(1, 20814), (2, 21003), (Start: 3 @21216 has 3 MA's), (5, 21237), (7, 21300), (10, 21405), (11, 21417), (13, 21471), (14, 21546), (15, 21555), (16, 21558), (17, 21564), (18, 21582), (20, 21597), (21, 21624), (22, 21630), (23, 21642), (24, 21669), (25, 21711), (26, 21735), (27, 21738), (34, 21867), (37, 21900), (38, 21909), (40, 21939), (42, 21948),

Gene: PBI1\_25 Start: 15417, Stop: 16070, Start Num: 6

Candidate Starts for PBI1\_25:

(Start: 6 @15417 has 23 MA's), (18, 15672), (22, 15720), (23, 15732), (28, 15834), (29, 15843), (33, 15873), (34, 15945), (35, 15963), (36, 15975), (39, 15990), (41, 16023),

Gene: PLOT\_26 Start: 15489, Stop: 16142, Start Num: 6

Candidate Starts for PLOT\_26:

(Start: 6 @15489 has 23 MA's), (18, 15744), (22, 15792), (23, 15804), (28, 15906), (29, 15915), (33, 15945), (34, 16017), (35, 16035), (36, 16047), (39, 16062), (41, 16095),

Gene: Penelope2018\_25 Start: 15486, Stop: 16139, Start Num: 6

Candidate Starts for Penelope2018\_25:

(Start: 6 @15486 has 23 MA's), (18, 15741), (22, 15789), (23, 15801), (28, 15903), (29, 15912), (33, 15942), (34, 16014), (35, 16032), (36, 16044), (39, 16059), (41, 16092),

Gene: Phalaborwa\_25 Start: 15519, Stop: 16172, Start Num: 6

Candidate Starts for Phalaborwa\_25:

(Start: 6 @15519 has 23 MA's), (18, 15774), (20, 15789), (22, 15822), (23, 15834), (28, 15936), (29, 15945), (33, 15975), (34, 16047), (35, 16065), (36, 16077), (39, 16092), (41, 16125),

Gene: Prager\_25 Start: 15498, Stop: 16151, Start Num: 6

Candidate Starts for Prager\_25:

(Start: 6 @15498 has 23 MA's), (18, 15753), (22, 15801), (23, 15813), (28, 15915), (29, 15924), (33, 15954), (34, 16026), (35, 16044), (36, 16056), (39, 16071), (41, 16104),

Gene: SirHarley\_24 Start: 15418, Stop: 16071, Start Num: 6

Candidate Starts for SirHarley\_24:

(Start: 6 @15418 has 23 MA's), (17, 15655), (18, 15673), (19, 15685), (20, 15688), (22, 15721), (23, 15733), (28, 15835), (29, 15844), (31, 15859), (33, 15874), (34, 15946), (35, 15964), (36, 15976), (39, 15991), (41, 16024),

Gene: SuperheroCarly\_25 Start: 15348, Stop: 16001, Start Num: 6

Candidate Starts for SuperheroCarly\_25:

(Start: 6 @15348 has 23 MA's), (18, 15603), (22, 15651), (23, 15663), (28, 15765), (29, 15774), (33, 15804), (34, 15876), (35, 15894), (36, 15906), (39, 15921), (41, 15954),

Gene: Thoth\_25 Start: 15483, Stop: 16136, Start Num: 6

Candidate Starts for Thoth\_25:

(Start: 6 @15483 has 23 MA's), (18, 15738), (22, 15786), (23, 15798), (28, 15900), (29, 15909), (33, 15939), (34, 16011), (35, 16029), (36, 16041), (39, 16056), (41, 16089),

Gene: Troll4\_25 Start: 15487, Stop: 16140, Start Num: 6

Candidate Starts for Troll4\_25:

(Start: 6 @15487 has 23 MA's), (18, 15742), (22, 15790), (23, 15802), (28, 15904), (29, 15913), (33, 15943), (34, 16015), (35, 16033), (36, 16045), (39, 16060), (41, 16093),

Gene: Visconti\_25 Start: 15496, Stop: 16149, Start Num: 6

Candidate Starts for Visconti\_25:

(Start: 6 @15496 has 23 MA's), (18, 15751), (22, 15799), (23, 15811), (28, 15913), (29, 15922), (33, 15952), (34, 16024), (35, 16042), (36, 16054), (39, 16069), (41, 16102),

Gene: WaldoWhy\_26 Start: 15492, Stop: 16145, Start Num: 6

Candidate Starts for WaldoWhy\_26:

(Start: 6 @15492 has 23 MA's), (18, 15747), (22, 15795), (23, 15807), (28, 15909), (29, 15918), (33, 15948), (34, 16020), (35, 16038), (36, 16050), (39, 16065), (41, 16098),