Pham 342472


1: Aikoy_34 + 1
2: Onyinye_35
3: Visconti_25 + 17
4: KandZ_25
5: Gumball_24 + 1
6: Delton_25 + 1
7: Hawkeye_27

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 342472 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342472 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),