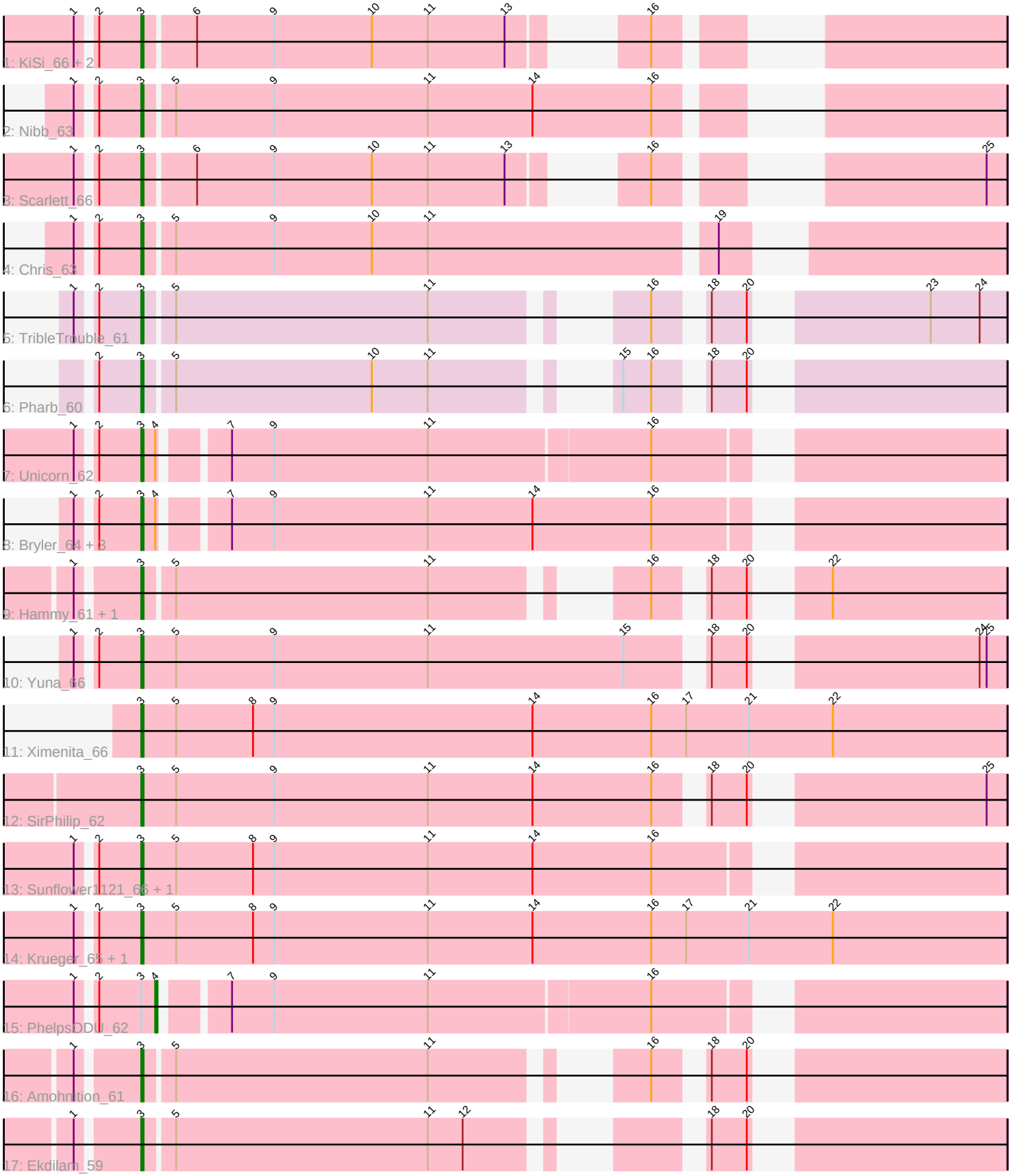
Pham 86412


1: KiSi_66 + 2
2: Nibb_63
3: Scarlett_66
4: Chris_63
5: TribleTrouble_61
6: Pharb_60
7: Unicorn_62
8: Bryler_64 + 3
9: Hammy_61 + 1
10: Yuna_66
11: Ximenita_66
12: SirPhilip_62
13: Sunflower1121_66 + 1
14: Krueger_65 + 1
15: PhelpsDDU_62
16: Amohnition_61
17: Ekdilam_59

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 86412 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86412 has 25 members, 0 are drafts.

Phages represented in each track:
• Track 1 : KiSi_66, LeMond_65, Oscar_65
• Track 2 : Nibb_63
• Track 3 : Scarlett_66
• Track 4 : Chris_63
• Track 5 : TribleTrouble_61
• Track 6 : Pharb_60
• Track 7 : Unicorn_62
• Track 8 : Bryler_64, Phrank_64, Tierra_64, Cain_64
• Track 9 : Hammy_61, DarthP_61
• Track 10 : Yuna_66
• Track 11 : Ximenita_66
• Track 12 : SirPhilip_62
• Track 13 : Sunflower1121_66, Shadow1_65
• Track 14 : Krueger_65, Syra333_64
• Track 15 : PhelpsODU_62
• Track 16 : Amohnition_61
• Track 17 : Ekdilam_59

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

The start number called the most often in the published annotations is 3, it was called in 24 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amohnition_61, Bryler_64, Cain_64, Chris_63, DarthP_61, Ekdilam_59, Hammy_61, KiSi_66, Krueger_65, LeMond_65, Nibb_63, Oscar_65, Pharb_60, Phrank_64, Scarlett_66, Shadow1_65, SirPhilip_62, Sunflower1121_66, Syra333_64, Tierra_64, TribleTrouble_61, Unicorn_62, Ximenita_66, Yuna_66,

Genes that have the "Most Annotated" start but do not call it:
• PhelpsODU_62,

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

Summary by start number:

Start 3:
• Found in 25 of 25 (100.0%) of genes in pham
• Manual Annotations of this start: 24 of 25
• Called 96.0% of time when present
• Phage (with cluster) where this start called: Amohnition_61 (K6), Bryler_64 (K6), Cain_64 (K6), Chris_63 (K1), DarthP_61 (K6), Ekdilam_59 (K6), Hammy_61 (K6), KiSi_66 (K1), Krueger_65 (K6), LeMond_65 (K1), Nibb_63 (K1), Oscar_65 (K1), Pharb_60 (K3), Phrank_64 (K6), Scarlett_66 (K1), Shadow1_65 (K6), SirPhilip_62 (K6), Sunflower1121_66 (K6), Syra333_64 (K6), Tierra_64 (K6), TribleTrouble_61 (K3), Unicorn_62 (K6), Ximenita_66 (K6), Yuna_66 (K6),

Start 4:
• Found in 6 of 25 (24.0%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 16.7% of time when present
• Phage (with cluster) where this start called: PhelpsODU_62 (K6),

Summary by clusters:

There are 3 clusters represented in this pham: K3, K1, K6,

Info for manual annotations of cluster K1:
•Start number 3 was manually annotated 6 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 3 was manually annotated 2 times for cluster K3.

Info for manual annotations of cluster K6:
•Start number 3 was manually annotated 16 times for cluster K6.
•Start number 4 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: Amohnition_61 Start: 42444, Stop: 42749, Start Num: 3
Candidate Starts for Amohnition_61:
(1, 42420), (Start: 3 @42444 has 24 MA's), (5, 42456), (11, 42564), (16, 42627), (18, 42642), (20, 42657),

Gene: Bryler_64 Start: 41650, Stop: 41991, Start Num: 3
Candidate Starts for Bryler_64:
(1, 41626), (2, 41632), (Start: 3 @41650 has 24 MA's), (Start: 4 @41656 has 1 MA's), (7, 41680), (9, 41698), (11, 41764), (14, 41809), (16, 41860),

Gene: Cain_64 Start: 41638, Stop: 41979, Start Num: 3
Candidate Starts for Cain_64:
(1, 41614), (2, 41620), (Start: 3 @41638 has 24 MA's), (Start: 4 @41644 has 1 MA's), (7, 41668), (9, 41686), (11, 41752), (14, 41797), (16, 41848),

Gene: Chris_63 Start: 42767, Stop: 43102, Start Num: 3
Candidate Starts for Chris_63:
(1, 42743), (2, 42749), (Start: 3 @42767 has 24 MA's), (5, 42779), (9, 42821), (10, 42863), (11, 42887), (19, 43004),

Gene: DarthP_61 Start: 42298, Stop: 42603, Start Num: 3
Candidate Starts for DarthP_61:
(1, 42274), (Start: 3 @42298 has 24 MA's), (5, 42310), (11, 42418), (16, 42481), (18, 42496), (20, 42511), (22, 42529),

Gene: Ekdilam_59 Start: 42328, Stop: 42633, Start Num: 3
Candidate Starts for Ekdilam_59:
(1, 42304), (Start: 3 @42328 has 24 MA's), (5, 42340), (11, 42448), (12, 42463), (18, 42526), (20, 42541),

Gene: Hammy_61 Start: 42286, Stop: 42591, Start Num: 3
Candidate Starts for Hammy_61:
(1, 42262), (Start: 3 @42286 has 24 MA's), (5, 42298), (11, 42406), (16, 42469), (18, 42484), (20, 42499), (22, 42517),

Gene: KiSi_66 Start: 43147, Stop: 43440, Start Num: 3
Candidate Starts for KiSi_66:
(1, 43123), (2, 43129), (Start: 3 @43147 has 24 MA's), (6, 43168), (9, 43201), (10, 43243), (11, 43267), (13, 43300), (16, 43330),

Gene: Krueger_65 Start: 41906, Stop: 42277, Start Num: 3
Candidate Starts for Krueger_65:
(1, 41882), (2, 41888), (Start: 3 @41906 has 24 MA's), (5, 41921), (8, 41954), (9, 41963), (11, 42029), (14, 42074), (16, 42125), (17, 42140), (21, 42167), (22, 42203),

Gene: LeMond_65 Start: 42781, Stop: 43074, Start Num: 3
Candidate Starts for LeMond_65:
(1, 42757), (2, 42763), (Start: 3 @42781 has 24 MA's), (6, 42802), (9, 42835), (10, 42877), (11, 42901), (13, 42934), (16, 42964),

Gene: Nibb_63 Start: 42105, Stop: 42431, Start Num: 3
Candidate Starts for Nibb_63:
(1, 42081), (2, 42087), (Start: 3 @42105 has 24 MA's), (5, 42117), (9, 42159), (11, 42225), (14, 42270), (16, 42321),

Gene: Oscar_65 Start: 42698, Stop: 42991, Start Num: 3
Candidate Starts for Oscar_65:
(1, 42674), (2, 42680), (Start: 3 @42698 has 24 MA's), (6, 42719), (9, 42752), (10, 42794), (11, 42818), (13, 42851), (16, 42881),

Gene: Pharb_60 Start: 41474, Stop: 41779, Start Num: 3
Candidate Starts for Pharb_60:
(2, 41456), (Start: 3 @41474 has 24 MA's), (5, 41486), (10, 41570), (11, 41594), (15, 41645), (16, 41657), (18, 41672), (20, 41687),

Gene: PhelpsODU_62 Start: 41573, Stop: 41905, Start Num: 4
Candidate Starts for PhelpsODU_62:

(1, 41543), (2, 41549), (Start: 3 @41567 has 24 MA's), (Start: 4 @41573 has 1 MA's), (7, 41597), (9, 41615), (11, 41681), (16, 41774),

Gene: Phrank_64 Start: 41628, Stop: 41969, Start Num: 3
Candidate Starts for Phrank_64:
(1, 41604), (2, 41610), (Start: 3 @41628 has 24 MA's), (Start: 4 @41634 has 1 MA's), (7, 41658), (9, 41676), (11, 41742), (14, 41787), (16, 41838),

Gene: Scarlett_66 Start: 43025, Stop: 43318, Start Num: 3
Candidate Starts for Scarlett_66:
(1, 43001), (2, 43007), (Start: 3 @43025 has 24 MA's), (6, 43046), (9, 43079), (10, 43121), (11, 43145), (13, 43178), (16, 43208), (25, 43310),

Gene: Shadow1_65 Start: 42080, Stop: 42430, Start Num: 3
Candidate Starts for Shadow1_65:
(1, 42056), (2, 42062), (Start: 3 @42080 has 24 MA's), (5, 42095), (8, 42128), (9, 42137), (11, 42203), (14, 42248), (16, 42299),

Gene: SirPhilip_62 Start: 42726, Stop: 43067, Start Num: 3
Candidate Starts for SirPhilip_62:
(Start: 3 @42726 has 24 MA's), (5, 42741), (9, 42783), (11, 42849), (14, 42894), (16, 42945), (18, 42960), (20, 42975), (25, 43059),

Gene: Sunflower1121_66 Start: 42226, Stop: 42576, Start Num: 3
Candidate Starts for Sunflower1121_66:
(1, 42202), (2, 42208), (Start: 3 @42226 has 24 MA's), (5, 42241), (8, 42274), (9, 42283), (11, 42349), (14, 42394), (16, 42445),

Gene: Syra333_64 Start: 41918, Stop: 42289, Start Num: 3
Candidate Starts for Syra333_64:
(1, 41894), (2, 41900), (Start: 3 @41918 has 24 MA's), (5, 41933), (8, 41966), (9, 41975), (11, 42041), (14, 42086), (16, 42137), (17, 42152), (21, 42179), (22, 42215),

Gene: Tierra_64 Start: 42439, Stop: 42780, Start Num: 3
Candidate Starts for Tierra_64:
(1, 42415), (2, 42421), (Start: 3 @42439 has 24 MA's), (Start: 4 @42445 has 1 MA's), (7, 42469), (9, 42487), (11, 42553), (14, 42598), (16, 42649),

Gene: TribleTrouble_61 Start: 42640, Stop: 42945, Start Num: 3
Candidate Starts for TribleTrouble_61:
(1, 42616), (2, 42622), (Start: 3 @42640 has 24 MA's), (5, 42652), (11, 42760), (16, 42823), (18, 42838), (20, 42853), (23, 42913), (24, 42934),

Gene: Unicorn_62 Start: 41567, Stop: 41905, Start Num: 3
Candidate Starts for Unicorn_62:
(1, 41543), (2, 41549), (Start: 3 @41567 has 24 MA's), (Start: 4 @41573 has 1 MA's), (7, 41597), (9, 41615), (11, 41681), (16, 41774),

Gene: Ximenita_66 Start: 42244, Stop: 42615, Start Num: 3
Candidate Starts for Ximenita_66:
(Start: 3 @42244 has 24 MA's), (5, 42259), (8, 42292), (9, 42301), (14, 42412), (16, 42463), (17, 42478), (21, 42505), (22, 42541),

Gene: Yuna_66 Start: 43342, Stop: 43683, Start Num: 3
Candidate Starts for Yuna_66:
(1, 43318), (2, 43324), (Start: 3 @43342 has 24 MA's), (5, 43357), (9, 43399), (11, 43465), (15, 43549), (18, 43576), (20, 43591), (24, 43672), (25, 43675),