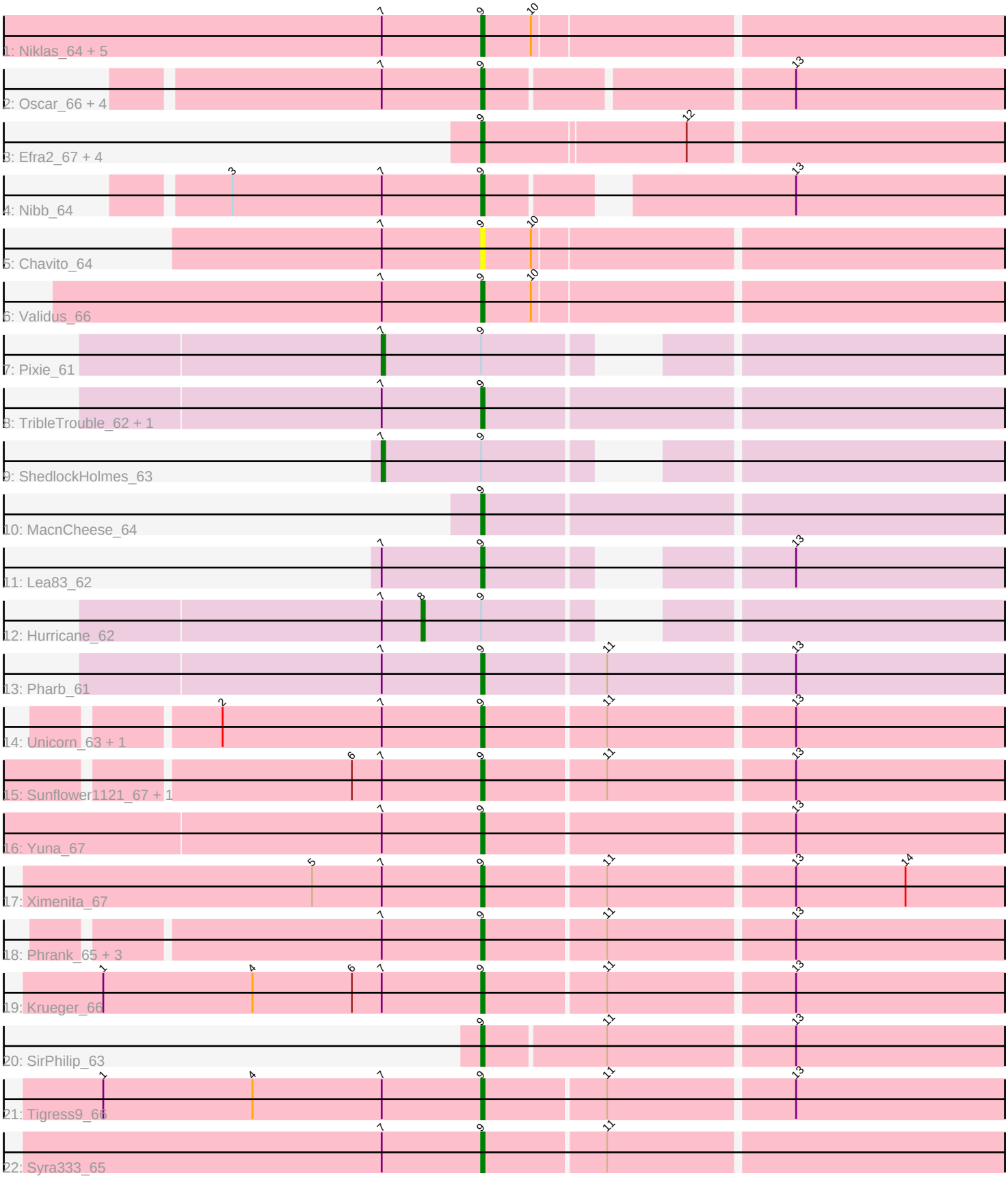
Pham 347794


1: Niklas_64 + 5
2: Oscar_66 + 4
3: Efra2_67 + 4
4: Nibb_64
5: Chavito_64
6: Validus_66
7: Pixie_61
8: TribleTrouble_62 + 1
9: ShedlockHolmes_63
10: MacnCheese_64
11: Lea83_62
12: Hurricane_62
13: Pharb_61
14: Unicorn_63 + 1
15: Sunflower1121_67 + 1
16: Yuna_67
17: Ximenita_67
18: Phrank_65 + 3
19: Krueger_66
20: SirPhilip_63
21: Tigress9_66
22: Syra333_65

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 347794 Report

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

Pham number 347794 has 41 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Niklas_64, Richo_64, McMater_64, Dartin_64, Shaobing_64, Peanam_64
• Track 2 : Oscar_66, MarkPhew_65, KiSi_67, LeMond_66, Scarlett_67
• Track 3 : Efra2_67, TingHuaYa_65, Guanica15_66, Yunkel11_66, LastHope_66
• Track 4 : Nibb_64
• Track 5 : Chavito_64
• Track 6 : Validus_66
• Track 7 : Pixie_61
• Track 8 : TribleTrouble_62, Keshu_64
• Track 9 : ShedlockHolmes_63
• Track 10 : MacnCheese_64
• Track 11 : Lea83_62
• Track 12 : Hurricane_62
• Track 13 : Pharb_61
• Track 14 : Unicorn_63, PhelpsODU_63
• Track 15 : Sunflower1121_67, Shadow1_66
• Track 16 : Yuna_67
• Track 17 : Ximenita_67
• Track 18 : Phrank_65, Tierra_65, Cain_65, Bryler_65
• Track 19 : Krueger_66
• Track 20 : SirPhilip_63
• Track 21 : Tigress9_66
• Track 22 : Syra333_65

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 36 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bryler_65, Cain_65, Chavito_64, Dartin_64, Efra2_67, Guanica15_66, Keshu_64, KiSi_67, Krueger_66, LastHope_66, LeMond_66, Lea83_62, MacnCheese_64, MarkPhew_65, McMater_64, Nibb_64, Niklas_64, Oscar_66, Peanam_64, Pharb_61, PhelpsODU_63, Phrank_65, Richo_64, Scarlett_67, Shadow1_66, Shaobing_64, SirPhilip_63, Sunflower1121_67, Syra333_65, Tierra_65, Tigress9_66,

TingHuaYa_65, TribleTrouble_62, Unicorn_63, Validus_66, Ximenita_67, Yuna_67, Yunkel11_66,

Genes that have the "Most Annotated" start but do not call it:
• Hurricane_62, Pixie_61, ShedlockHolmes_63,

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

Summary by start number:

Start 7:
• Found in 34 of 41 (82.9%) of genes in pham
• Manual Annotations of this start: 2 of 39
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Pixie_61 (K3), ShedlockHolmes_63 (K3),

Start 8:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hurricane_62 (K3),

Start 9:
• Found in 41 of 41 (100.0%) of genes in pham
• Manual Annotations of this start: 36 of 39
• Called 92.7% of time when present
• Phage (with cluster) where this start called: Bryler_65 (K6), Cain_65 (K6), Chavito_64 (K1), Dartin_64 (K1), Efra2_67 (K1), Guanica15_66 (K1), Keshu_64 (K3), KiSi_67 (K1), Krueger_66 (K6), LastHope_66 (K1), LeMond_66 (K1), Lea83_62 (K3), MacnCheese_64 (K3), MarkPhew_65 (K1), McMater_64 (K1), Nibb_64 (K1), Niklas_64 (K1), Oscar_66 (K1), Peanam_64 (K1), Pharb_61 (K3), PhelpsODU_63 (K6), Phrank_65 (K6), Richo_64 (K1), Scarlett_67 (K1), Shadow1_66 (K6), Shaobing_64 (K1), SirPhilip_63 (K6), Sunflower1121_67 (K6), Syra333_65 (K6), Tierra_65 (K6), Tigress9_66 (K6), TingHuaYa_65 (K1), TribleTrouble_62 (K3), Unicorn_63 (K6), Validus_66 (K1), Ximenita_67 (K6), Yuna_67 (K6), Yunkel11_66 (K1),

Summary by clusters:

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

Info for manual annotations of cluster K1:
•Start number 9 was manually annotated 17 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 7 was manually annotated 2 times for cluster K3.
•Start number 8 was manually annotated 1 time for cluster K3.
•Start number 9 was manually annotated 5 times for cluster K3.

Info for manual annotations of cluster K6:
•Start number 9 was manually annotated 14 times for cluster K6.

Gene Information:

Gene: Bryler_65 Start: 41993, Stop: 42184, Start Num: 9
Candidate Starts for Bryler_65:
(Start: 7 @41963 has 2 MA's), (Start: 9 @41993 has 36 MA's), (11, 42029), (13, 42083),

Gene: Cain_65 Start: 41981, Stop: 42172, Start Num: 9
Candidate Starts for Cain_65:
(Start: 7 @41951 has 2 MA's), (Start: 9 @41981 has 36 MA's), (11, 42017), (13, 42071),

Gene: Chavito_64 Start: 43106, Stop: 43297, Start Num: 9
Candidate Starts for Chavito_64:
(Start: 7 @43076 has 2 MA's), (Start: 9 @43106 has 36 MA's), (10, 43121),

Gene: Dartin_64 Start: 42605, Stop: 42799, Start Num: 9
Candidate Starts for Dartin_64:
(Start: 7 @42575 has 2 MA's), (Start: 9 @42605 has 36 MA's), (10, 42620),

Gene: Efra2_67 Start: 42478, Stop: 42672, Start Num: 9
Candidate Starts for Efra2_67:
(Start: 9 @42478 has 36 MA's), (12, 42538),

Gene: Guanica15_66 Start: 42219, Stop: 42413, Start Num: 9
Candidate Starts for Guanica15_66:
(Start: 9 @42219 has 36 MA's), (12, 42279),

Gene: Hurricane_62 Start: 42432, Stop: 42641, Start Num: 8
Candidate Starts for Hurricane_62:
(Start: 7 @42420 has 2 MA's), (Start: 8 @42432 has 1 MA's), (Start: 9 @42450 has 36 MA's),

Gene: Keshu_64 Start: 42548, Stop: 42739, Start Num: 9
Candidate Starts for Keshu_64:
(Start: 7 @42518 has 2 MA's), (Start: 9 @42548 has 36 MA's),

Gene: KiSi_67 Start: 43442, Stop: 43639, Start Num: 9
Candidate Starts for KiSi_67:
(Start: 7 @43412 has 2 MA's), (Start: 9 @43442 has 36 MA's), (13, 43529),

Gene: Krueger_66 Start: 42279, Stop: 42470, Start Num: 9
Candidate Starts for Krueger_66:
(1, 42165), (4, 42210), (6, 42240), (Start: 7 @42249 has 2 MA's), (Start: 9 @42279 has 36 MA's), (11, 42315), (13, 42369),

Gene: LastHope_66 Start: 41540, Stop: 41734, Start Num: 9
Candidate Starts for LastHope_66:
(Start: 9 @41540 has 36 MA's), (12, 41600),

Gene: LeMond_66 Start: 43076, Stop: 43273, Start Num: 9
Candidate Starts for LeMond_66:
(Start: 7 @43046 has 2 MA's), (Start: 9 @43076 has 36 MA's), (13, 43163),

Gene: Lea83_62 Start: 42485, Stop: 42676, Start Num: 9
Candidate Starts for Lea83_62:
(Start: 7 @42455 has 2 MA's), (Start: 9 @42485 has 36 MA's), (13, 42554),

Gene: MacnCheese_64 Start: 43048, Stop: 43242, Start Num: 9
Candidate Starts for MacnCheese_64:
(Start: 9 @43048 has 36 MA's),

Gene: MarkPhew_65 Start: 42579, Stop: 42773, Start Num: 9
Candidate Starts for MarkPhew_65:
(Start: 7 @42549 has 2 MA's), (Start: 9 @42579 has 36 MA's), (13, 42663),

Gene: McMater_64 Start: 42605, Stop: 42799, Start Num: 9
Candidate Starts for McMater_64:
(Start: 7 @42575 has 2 MA's), (Start: 9 @42605 has 36 MA's), (10, 42620),

Gene: Nibb_64 Start: 42433, Stop: 42618, Start Num: 9
Candidate Starts for Nibb_64:
(3, 42358), (Start: 7 @42403 has 2 MA's), (Start: 9 @42433 has 36 MA's), (13, 42514),

Gene: Niklas_64 Start: 42666, Stop: 42860, Start Num: 9
Candidate Starts for Niklas_64:
(Start: 7 @42636 has 2 MA's), (Start: 9 @42666 has 36 MA's), (10, 42681),

Gene: Oscar_66 Start: 42993, Stop: 43190, Start Num: 9
Candidate Starts for Oscar_66:
(Start: 7 @42963 has 2 MA's), (Start: 9 @42993 has 36 MA's), (13, 43080),

Gene: Peanam_64 Start: 42624, Stop: 42818, Start Num: 9
Candidate Starts for Peanam_64:
(Start: 7 @42594 has 2 MA's), (Start: 9 @42624 has 36 MA's), (10, 42639),

Gene: Pharb_61 Start: 41781, Stop: 41975, Start Num: 9
Candidate Starts for Pharb_61:
(Start: 7 @41751 has 2 MA's), (Start: 9 @41781 has 36 MA's), (11, 41817), (13, 41871),

Gene: PhelpsODU_63 Start: 41907, Stop: 42098, Start Num: 9
Candidate Starts for PhelpsODU_63:
(2, 41829), (Start: 7 @41877 has 2 MA's), (Start: 9 @41907 has 36 MA's), (11, 41943), (13, 41997),

Gene: Phrank_65 Start: 41971, Stop: 42162, Start Num: 9
Candidate Starts for Phrank_65:
(Start: 7 @41941 has 2 MA's), (Start: 9 @41971 has 36 MA's), (11, 42007), (13, 42061),

Gene: Pixie_61 Start: 41940, Stop: 42161, Start Num: 7
Candidate Starts for Pixie_61:
(Start: 7 @41940 has 2 MA's), (Start: 9 @41970 has 36 MA's),

Gene: Richo_64 Start: 42605, Stop: 42799, Start Num: 9
Candidate Starts for Richo_64:
(Start: 7 @42575 has 2 MA's), (Start: 9 @42605 has 36 MA's), (10, 42620),

Gene: Scarlett_67 Start: 43320, Stop: 43517, Start Num: 9

Candidate Starts for Scarlett_67:
(Start: 7 @43290 has 2 MA's), (Start: 9 @43320 has 36 MA's), (13, 43407),

Gene: Shadow1_66 Start: 42432, Stop: 42623, Start Num: 9
Candidate Starts for Shadow1_66:
(6, 42393), (Start: 7 @42402 has 2 MA's), (Start: 9 @42432 has 36 MA's), (11, 42468), (13, 42522),

Gene: Shaobing_64 Start: 42642, Stop: 42836, Start Num: 9
Candidate Starts for Shaobing_64:
(Start: 7 @42612 has 2 MA's), (Start: 9 @42642 has 36 MA's), (10, 42657),

Gene: ShedlockHolmes_63 Start: 42459, Stop: 42680, Start Num: 7
Candidate Starts for ShedlockHolmes_63:
(Start: 7 @42459 has 2 MA's), (Start: 9 @42489 has 36 MA's),

Gene: SirPhilip_63 Start: 43069, Stop: 43278, Start Num: 9
Candidate Starts for SirPhilip_63:
(Start: 9 @43069 has 36 MA's), (11, 43105), (13, 43159),

Gene: Sunflower1121_67 Start: 42578, Stop: 42769, Start Num: 9
Candidate Starts for Sunflower1121_67:
(6, 42539), (Start: 7 @42548 has 2 MA's), (Start: 9 @42578 has 36 MA's), (11, 42614), (13, 42668),

Gene: Syra333_65 Start: 42291, Stop: 42482, Start Num: 9
Candidate Starts for Syra333_65:
(Start: 7 @42261 has 2 MA's), (Start: 9 @42291 has 36 MA's), (11, 42327),

Gene: Tierra_65 Start: 42782, Stop: 42973, Start Num: 9
Candidate Starts for Tierra_65:
(Start: 7 @42752 has 2 MA's), (Start: 9 @42782 has 36 MA's), (11, 42818), (13, 42872),

Gene: Tigress9_66 Start: 42608, Stop: 42799, Start Num: 9
Candidate Starts for Tigress9_66:
(1, 42494), (4, 42539), (Start: 7 @42578 has 2 MA's), (Start: 9 @42608 has 36 MA's), (11, 42644), (13, 42698),

Gene: TingHuaYa_65 Start: 41708, Stop: 41902, Start Num: 9
Candidate Starts for TingHuaYa_65:
(Start: 9 @41708 has 36 MA's), (12, 41768),

Gene: TribleTrouble_62 Start: 42947, Stop: 43141, Start Num: 9
Candidate Starts for TribleTrouble_62:
(Start: 7 @42917 has 2 MA's), (Start: 9 @42947 has 36 MA's),

Gene: Unicorn_63 Start: 41907, Stop: 42098, Start Num: 9
Candidate Starts for Unicorn_63:
(2, 41829), (Start: 7 @41877 has 2 MA's), (Start: 9 @41907 has 36 MA's), (11, 41943), (13, 41997),

Gene: Validus_66 Start: 42988, Stop: 43194, Start Num: 9
Candidate Starts for Validus_66:
(Start: 7 @42958 has 2 MA's), (Start: 9 @42988 has 36 MA's), (10, 43003),

Gene: Ximenita_67 Start: 42617, Stop: 42808, Start Num: 9

Candidate Starts for Ximenita_67:
(5, 42566), (Start: 7 @42587 has 2 MA's), (Start: 9 @42617 has 36 MA's), (11, 42653), (13, 42707), (14, 42740),

Gene: Yuna_67 Start: 43685, Stop: 43879, Start Num: 9
Candidate Starts for Yuna_67:
(Start: 7 @43655 has 2 MA's), (Start: 9 @43685 has 36 MA's), (13, 43775),

Gene: Yunkel11_66 Start: 42224, Stop: 42418, Start Num: 9
Candidate Starts for Yunkel11_66:
(Start: 9 @42224 has 36 MA's), (12, 42284),