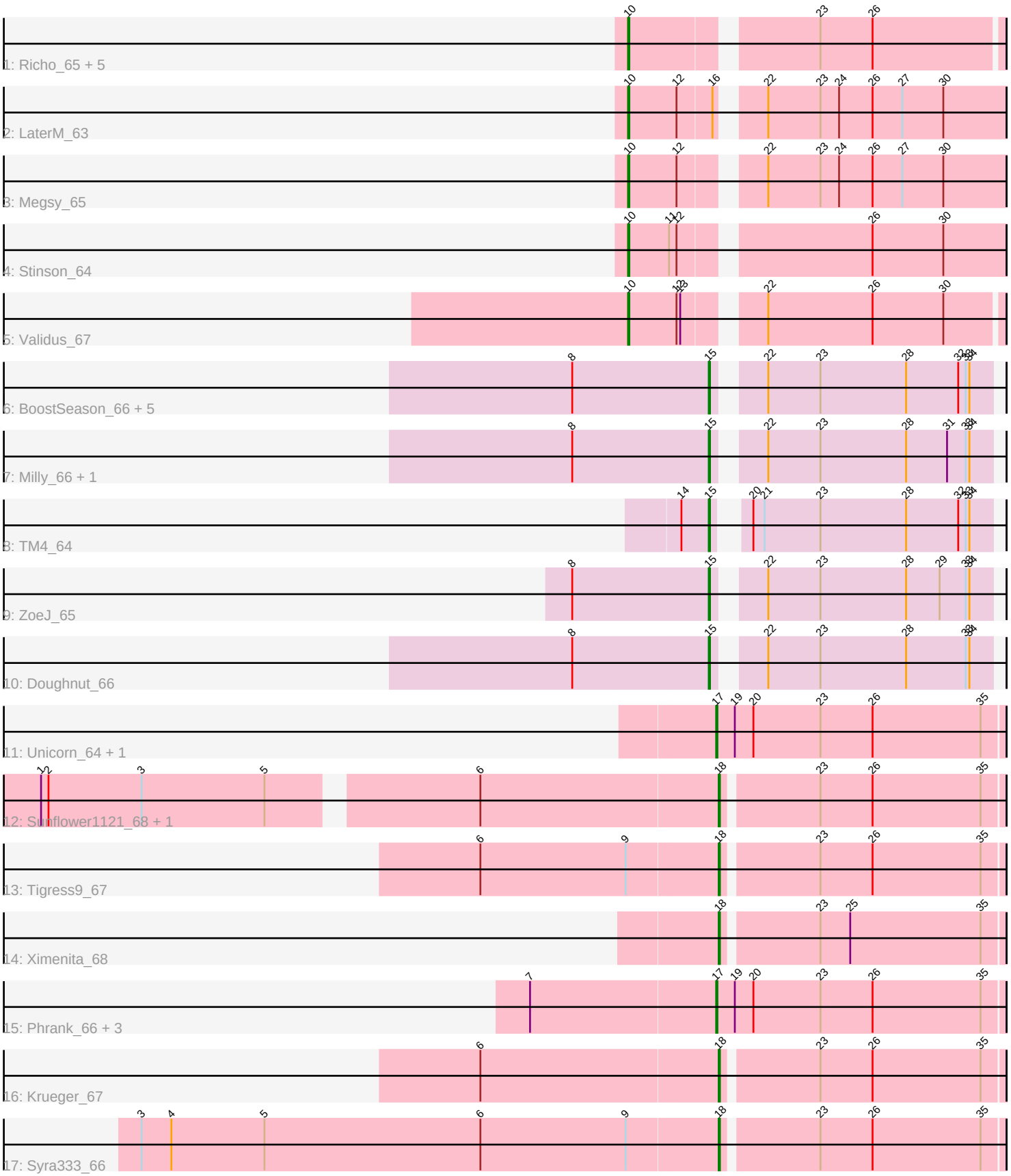
Pham 347878


1: Richo_65 + 5
2: LaterM_63
3: Megsy_65
4: Stinson_64
5: Validus_67
6: BoostSeason_66 + 5
7: Milly_66 + 1
8: TM4_64
9: ZoeJ_65
10: Doughnut_66
11: Unicorn_64 + 1
12: Sunflower1121_68 + 1
13: Tigress9_67
14: Ximenita_68
15: Phrank_66 + 3
16: Krueger_67
17: Syra333_66

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 347878 Report

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

Pham number 347878 has 33 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Richo_65, Niklas_65, McMater_65, Shaobing_65, Dartin_65, Peanam_65
• Track 2 : LaterM_63
• Track 3 : Megsy_65
• Track 4 : Stinson_64
• Track 5 : Validus_67
• Track 6 : BoostSeason_66, Marcoliusprime_66, DismalStressor_66, DismalFunk_66, Findley_66, Strobilo_67
• Track 7 : Milly_66, Mufasa_66
• Track 8 : TM4_64
• Track 9 : ZoeJ_65
• Track 10 : Doughnut_66
• Track 11 : Unicorn_64, PhelpsODU_64
• Track 12 : Sunflower1121_68, Shadow1_67
• Track 13 : Tigress9_67
• Track 14 : Ximenita_68
• Track 15 : Phrank_66, Tierra_66, Cain_66, Bryler_66
• Track 16 : Krueger_67
• Track 17 : Syra333_66

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

The start number called the most often in the published annotations is 15, it was called in 11 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BoostSeason_66, DismalFunk_66, DismalStressor_66, Doughnut_66, Findley_66, Marcoliusprime_66, Milly_66, Mufasa_66, Strobilo_67, TM4_64, ZoeJ_65,

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

Genes that do not have the "Most Annotated" start:
• Bryler_66, Cain_66, Dartin_65, Krueger_67, LaterM_63, McMater_65, Megsy_65, Niklas_65, Peanam_65, PhelpsODU_64, Phrank_66, Richo_65, Shadow1_67,

Shaobing_65, Stinson_64, Sunflower1121_68, Syra333_66, Tierra_66, Tigress9_67, Unicorn_64, Validus_67, Ximenita_68,

Summary by start number:

Start 10:
• Found in 10 of 33 (30.3%) of genes in pham
• Manual Annotations of this start: 10 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dartin_65 (K1), LaterM_63 (K1), McMater_65 (K1), Megsy_65 (K1), Niklas_65 (K1), Peanam_65 (K1), Richo_65 (K1), Shaobing_65 (K1), Stinson_64 (K1), Validus_67 (K1),

Start 15:
• Found in 11 of 33 (33.3%) of genes in pham
• Manual Annotations of this start: 11 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_66 (K2), DismalFunk_66 (K2), DismalStressor_66 (K2), Doughnut_66 (K2), Findley_66 (K2), Marcoliusprime_66 (K2), Milly_66 (K2), Mufasa_66 (K2), Strobilo_67 (K2), TM4_64 (K2), ZoeJ_65 (K2),

Start 17:
• Found in 6 of 33 (18.2%) of genes in pham
• Manual Annotations of this start: 6 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bryler_66 (K6), Cain_66 (K6), PhelpsODU_64 (K6), Phrank_66 (K6), Tierra_66 (K6), Unicorn_64 (K6),

Start 18:
• Found in 6 of 33 (18.2%) of genes in pham
• Manual Annotations of this start: 6 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Krueger_67 (K6), Shadow1_67 (K6), Sunflower1121_68 (K6), Syra333_66 (K6), Tigress9_67 (K6), Ximenita_68 (K6),

Summary by clusters:

There are 3 clusters represented in this pham: K2, K1, K6,

Info for manual annotations of cluster K1:
•Start number 10 was manually annotated 10 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 15 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K6:
•Start number 17 was manually annotated 6 times for cluster K6.
•Start number 18 was manually annotated 6 times for cluster K6.

Gene Information:

Gene: BoostSeason_66 Start: 44610, Stop: 44819, Start Num: 15
Candidate Starts for BoostSeason_66:
(8, 44502), (Start: 15 @44610 has 11 MA's), (22, 44640), (23, 44682), (28, 44751), (32, 44793), (33, 44799), (34, 44802),

Gene: Bryler_66 Start: 42196, Stop: 42426, Start Num: 17
Candidate Starts for Bryler_66:
(7, 42049), (Start: 17 @42196 has 6 MA's), (19, 42211), (20, 42226), (23, 42280), (26, 42322), (35, 42409),

Gene: Cain_66 Start: 42184, Stop: 42414, Start Num: 17
Candidate Starts for Cain_66:
(7, 42037), (Start: 17 @42184 has 6 MA's), (19, 42199), (20, 42214), (23, 42268), (26, 42310), (35, 42397),

Gene: Dartin_65 Start: 42809, Stop: 43087, Start Num: 10
Candidate Starts for Dartin_65:
(Start: 10 @42809 has 10 MA's), (23, 42944), (26, 42986),

Gene: DismalFunk_66 Start: 45035, Stop: 45244, Start Num: 15
Candidate Starts for DismalFunk_66:
(8, 44927), (Start: 15 @45035 has 11 MA's), (22, 45065), (23, 45107), (28, 45176), (32, 45218), (33, 45224), (34, 45227),

Gene: DismalStressor_66 Start: 45035, Stop: 45244, Start Num: 15
Candidate Starts for DismalStressor_66:
(8, 44927), (Start: 15 @45035 has 11 MA's), (22, 45065), (23, 45107), (28, 45176), (32, 45218), (33, 45224), (34, 45227),

Gene: Doughnut_66 Start: 44652, Stop: 44861, Start Num: 15
Candidate Starts for Doughnut_66:
(8, 44544), (Start: 15 @44652 has 11 MA's), (22, 44682), (23, 44724), (28, 44793), (33, 44841), (34, 44844),

Gene: Findley_66 Start: 45028, Stop: 45237, Start Num: 15
Candidate Starts for Findley_66:
(8, 44920), (Start: 15 @45028 has 11 MA's), (22, 45058), (23, 45100), (28, 45169), (32, 45211), (33, 45217), (34, 45220),

Gene: Krueger_67 Start: 42484, Stop: 42702, Start Num: 18
Candidate Starts for Krueger_67:
(6, 42295), (Start: 18 @42484 has 6 MA's), (23, 42556), (26, 42598), (35, 42685),

Gene: LaterM_63 Start: 43006, Stop: 43290, Start Num: 10
Candidate Starts for LaterM_63:
(Start: 10 @43006 has 10 MA's), (12, 43045), (16, 43072), (22, 43099), (23, 43141), (24, 43156), (26, 43183), (27, 43207), (30, 43240),

Gene: Marcoliusprime_66 Start: 45035, Stop: 45244, Start Num: 15
Candidate Starts for Marcoliusprime_66:
(8, 44927), (Start: 15 @45035 has 11 MA's), (22, 45065), (23, 45107), (28, 45176), (32, 45218), (33, 45224), (34, 45227),

Gene: McMater_65 Start: 42809, Stop: 43087, Start Num: 10
Candidate Starts for McMater_65:
(Start: 10 @42809 has 10 MA's), (23, 42944), (26, 42986),

Gene: Megsy_65 Start: 42722, Stop: 43006, Start Num: 10
Candidate Starts for Megsy_65:
(Start: 10 @42722 has 10 MA's), (12, 42761), (22, 42815), (23, 42857), (24, 42872), (26, 42899), (27, 42923), (30, 42956),

Gene: Milly_66 Start: 45008, Stop: 45217, Start Num: 15
Candidate Starts for Milly_66:
(8, 44900), (Start: 15 @45008 has 11 MA's), (22, 45038), (23, 45080), (28, 45149), (31, 45182), (33, 45197), (34, 45200),

Gene: Mufasa_66 Start: 44595, Stop: 44804, Start Num: 15
Candidate Starts for Mufasa_66:
(8, 44487), (Start: 15 @44595 has 11 MA's), (22, 44625), (23, 44667), (28, 44736), (31, 44769), (33, 44784), (34, 44787),

Gene: Niklas_65 Start: 42870, Stop: 43148, Start Num: 10
Candidate Starts for Niklas_65:
(Start: 10 @42870 has 10 MA's), (23, 43005), (26, 43047),

Gene: Peanam_65 Start: 42828, Stop: 43106, Start Num: 10
Candidate Starts for Peanam_65:
(Start: 10 @42828 has 10 MA's), (23, 42963), (26, 43005),

Gene: PhelpsODU_64 Start: 42110, Stop: 42340, Start Num: 17
Candidate Starts for PhelpsODU_64:
(Start: 17 @42110 has 6 MA's), (19, 42125), (20, 42140), (23, 42194), (26, 42236), (35, 42323),

Gene: Phrank_66 Start: 42174, Stop: 42404, Start Num: 17
Candidate Starts for Phrank_66:
(7, 42027), (Start: 17 @42174 has 6 MA's), (19, 42189), (20, 42204), (23, 42258), (26, 42300), (35, 42387),

Gene: Richo_65 Start: 42809, Stop: 43087, Start Num: 10
Candidate Starts for Richo_65:
(Start: 10 @42809 has 10 MA's), (23, 42944), (26, 42986),

Gene: Shadow1_67 Start: 42637, Stop: 42855, Start Num: 18
Candidate Starts for Shadow1_67:
(1, 42115), (2, 42121), (3, 42196), (5, 42295), (6, 42448), (Start: 18 @42637 has 6 MA's), (23, 42709), (26, 42751), (35, 42838),

Gene: Shaobing_65 Start: 42846, Stop: 43124, Start Num: 10
Candidate Starts for Shaobing_65:
(Start: 10 @42846 has 10 MA's), (23, 42981), (26, 43023),

Gene: Stinson_64 Start: 42939, Stop: 43223, Start Num: 10
Candidate Starts for Stinson_64:
(Start: 10 @42939 has 10 MA's), (11, 42972), (12, 42978), (26, 43116), (30, 43173),

Gene: Strobilo_67 Start: 45010, Stop: 45219, Start Num: 15
Candidate Starts for Strobilo_67:
(8, 44902), (Start: 15 @45010 has 11 MA's), (22, 45040), (23, 45082), (28, 45151), (32, 45193), (33, 45199), (34, 45202),

Gene: Sunflower1121_68 Start: 42783, Stop: 43001, Start Num: 18
Candidate Starts for Sunflower1121_68:
(1, 42261), (2, 42267), (3, 42342), (5, 42441), (6, 42594), (Start: 18 @42783 has 6 MA's), (23, 42855), (26, 42897), (35, 42984),

Gene: Syra333_66 Start: 42496, Stop: 42714, Start Num: 18
Candidate Starts for Syra333_66:
(3, 42034), (4, 42058), (5, 42133), (6, 42307), (9, 42424), (Start: 18 @42496 has 6 MA's), (23, 42568), (26, 42610), (35, 42697),

Gene: TM4_64 Start: 39676, Stop: 39882, Start Num: 15
Candidate Starts for TM4_64:
(14, 39655), (Start: 15 @39676 has 11 MA's), (20, 39691), (21, 39700), (23, 39745), (28, 39814), (32, 39856), (33, 39862), (34, 39865),

Gene: Tierra_66 Start: 42985, Stop: 43215, Start Num: 17
Candidate Starts for Tierra_66:
(7, 42838), (Start: 17 @42985 has 6 MA's), (19, 43000), (20, 43015), (23, 43069), (26, 43111), (35, 43198),

Gene: Tigress9_67 Start: 42813, Stop: 43031, Start Num: 18
Candidate Starts for Tigress9_67:
(6, 42624), (9, 42741), (Start: 18 @42813 has 6 MA's), (23, 42885), (26, 42927), (35, 43014),

Gene: Unicorn_64 Start: 42110, Stop: 42340, Start Num: 17
Candidate Starts for Unicorn_64:
(Start: 17 @42110 has 6 MA's), (19, 42125), (20, 42140), (23, 42194), (26, 42236), (35, 42323),

Gene: Validus_67 Start: 43191, Stop: 43469, Start Num: 10
Candidate Starts for Validus_67:
(Start: 10 @43191 has 10 MA's), (12, 43230), (13, 43233), (22, 43284), (26, 43368), (30, 43425),

Gene: Ximenita_68 Start: 42822, Stop: 43040, Start Num: 18
Candidate Starts for Ximenita_68:
(Start: 18 @42822 has 6 MA's), (23, 42894), (25, 42918), (35, 43023),

Gene: ZoeJ_65 Start: 44414, Stop: 44623, Start Num: 15
Candidate Starts for ZoeJ_65:
(8, 44306), (Start: 15 @44414 has 11 MA's), (22, 44444), (23, 44486), (28, 44555), (29, 44582), (33, 44603), (34, 44606),