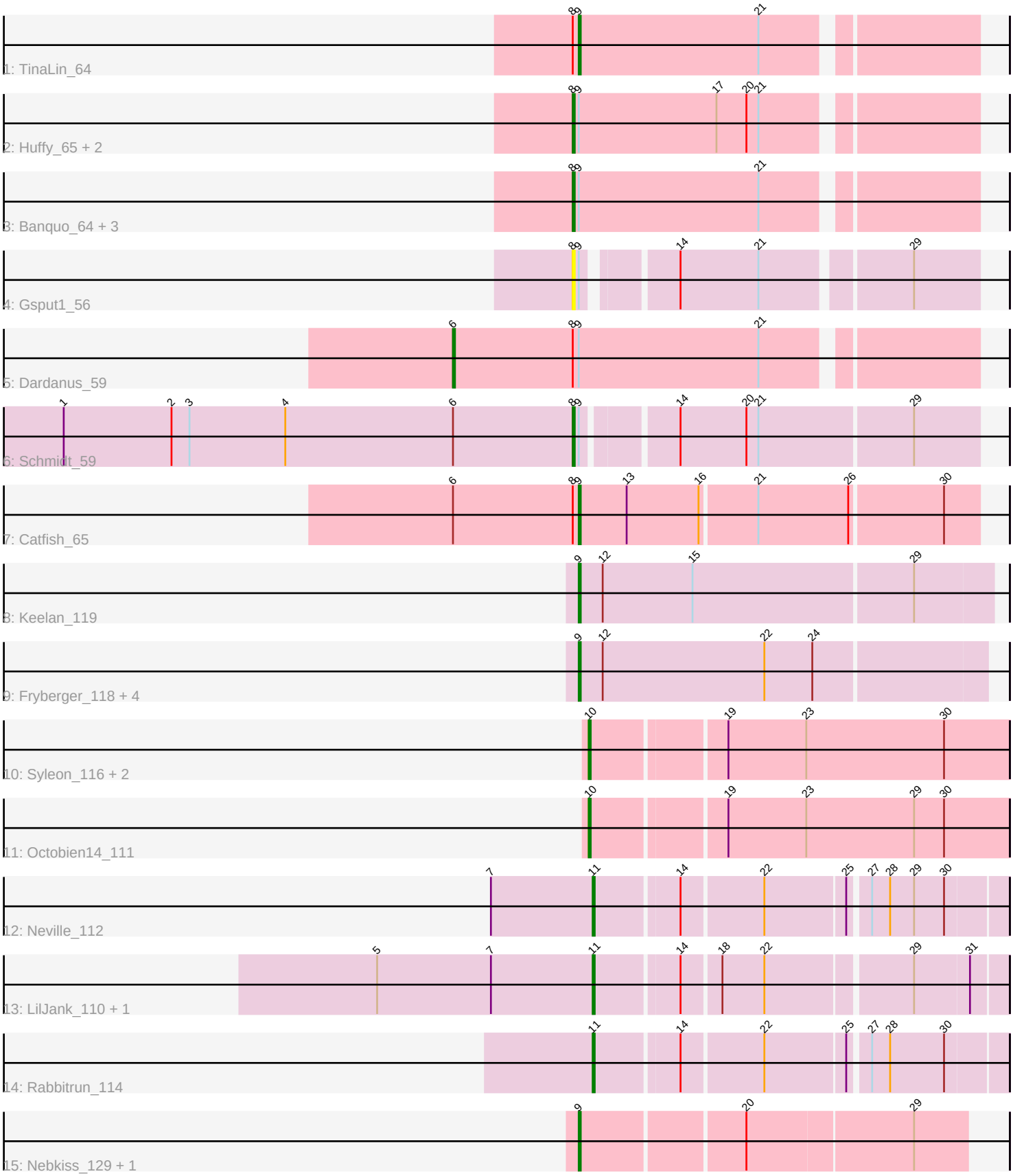
Pham 300286


1: TinaLin_64
2: Huffy_65 + 2
3: Banquo_64 + 3
4: Gsput1_56
5: Dardanus_59
6: Schmidt_59
7: Catfish_65
8: Keelan_119
9: Fryberger_118 + 4
10: Syleon_116 + 2
11: Octobien14_111
12: Neville_112
13: LilJank_110 + 1
14: Rabbitrun_114
15: Nebkiss_129 + 1

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 300286 Report

This analysis was run 06/08/26 on database version 649.

Pham number 300286 has 28 members, 2 are drafts.

Phages represented in each track:
• Track 1 : TinaLin_64
• Track 2 : Huffy_65, DinoDaryn_65, TZGordon_66
• Track 3 : Banquo_64, Splinter_65, Vendetta_65, Goib_65
• Track 4 : Gsput1_56
• Track 5 : Dardanus_59
• Track 6 : Schmidt_59
• Track 7 : Catfish_65
• Track 8 : Keelan_119
• Track 9 : Fryberger_118, Ziko_120, Ronaldo_119, Guey18_122, Volt_122
• Track 10 : Syleon_116, Kudefre_115, Sephiroth_111
• Track 11 : Octobien14_111
• Track 12 : Neville_112
• Track 13 : LilJank_110, Trax_114
• Track 14 : Rabbitrun_114
• Track 15 : Nebkiss_129, Gaia_128

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 10 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Catfish_65, Fryberger_118, Gaia_128, Guey18_122, Keelan_119, Nebkiss_129, Ronaldo_119, TinaLin_64, Volt_122, Ziko_120,

Genes that have the "Most Annotated" start but do not call it:
• Banquo_64, Dardanus_59, DinoDaryn_65, Goib_65, Gsput1_56, Huffy_65, Schmidt_59, Splinter_65, TZGordon_66, Vendetta_65,

Genes that do not have the "Most Annotated" start:
• Kudefre_115, LilJank_110, Neville_112, Octobien14_111, Rabbitrun_114, Sephiroth_111, Syleon_116, Trax_114,

Summary by start number:

Start 6:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Dardanus_59 (CU3),

Start 8:
• Found in 12 of 28 (42.9%) of genes in pham
• Manual Annotations of this start: 8 of 26
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Banquo_64 (CU1), DinoDaryn_65 (CU1), Goib_65 (CU1), Gsput1_56 (CU2), Huffy_65 (CU1), Schmidt_59 (CU4), Splinter_65 (CU1), TZGordon_66 (CU1), Vendetta_65 (CU1),

Start 9:
• Found in 20 of 28 (71.4%) of genes in pham
• Manual Annotations of this start: 10 of 26
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Catfish_65 (CU5), Fryberger_118 (DP), Gaia_128 (X), Guey18_122 (DP), Keelan_119 (DP), Nebkiss_129 (X), Ronaldo_119 (DP), TinaLin_64 (CU1), Volt_122 (DP), Ziko_120 (DP),

Start 10:
• Found in 4 of 28 (14.3%) of genes in pham
• Manual Annotations of this start: 4 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kudefre_115 (DU1), Octobien14_111 (DU1), Sephiroth_111 (DU1), Syleon_116 (DU1),

Start 11:
• Found in 4 of 28 (14.3%) 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: LilJank_110 (DU2), Neville_112 (DU2), Rabbitrun_114 (DU2), Trax_114 (DU2),

Summary by clusters:

There are 9 clusters represented in this pham: CU5, CU4, CU3, CU2, CU1, X, DU1, DU2, DP,

Info for manual annotations of cluster CU1:
•Start number 8 was manually annotated 7 times for cluster CU1.
•Start number 9 was manually annotated 1 time for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 6 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 8 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:
•Start number 9 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster DP:
•Start number 9 was manually annotated 6 times for cluster DP.

Info for manual annotations of cluster DU1:
•Start number 10 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:
•Start number 11 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster X:
•Start number 9 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Banquo_64 Start: 39416, Stop: 39607, Start Num: 8
Candidate Starts for Banquo_64:
(Start: 8 @39416 has 8 MA's), (Start: 9 @39419 has 10 MA's), (21, 39509),

Gene: Catfish_65 Start: 41441, Stop: 41635, Start Num: 9
Candidate Starts for Catfish_65:
(Start: 6 @41378 has 1 MA's), (Start: 8 @41438 has 8 MA's), (Start: 9 @41441 has 10 MA's), (13, 41465), (16, 41501), (21, 41528), (26, 41573), (30, 41618),

Gene: Dardanus_59 Start: 37612, Stop: 37863, Start Num: 6
Candidate Starts for Dardanus_59:
(Start: 6 @37612 has 1 MA's), (Start: 8 @37672 has 8 MA's), (Start: 9 @37675 has 10 MA's), (21, 37765),

Gene: DinoDaryn_65 Start: 39517, Stop: 39708, Start Num: 8
Candidate Starts for DinoDaryn_65:
(Start: 8 @39517 has 8 MA's), (Start: 9 @39520 has 10 MA's), (17, 39589), (20, 39604), (21, 39610),

Gene: Fryberger_118 Start: 56377, Stop: 56577, Start Num: 9
Candidate Starts for Fryberger_118:
(Start: 9 @56377 has 10 MA's), (12, 56389), (22, 56470), (24, 56494),

Gene: Gaia_128 Start: 70504, Stop: 70689, Start Num: 9
Candidate Starts for Gaia_128:
(Start: 9 @70504 has 10 MA's), (20, 70582), (29, 70663),

Gene: Goib_65 Start: 40633, Stop: 40824, Start Num: 8
Candidate Starts for Goib_65:
(Start: 8 @40633 has 8 MA's), (Start: 9 @40636 has 10 MA's), (21, 40726),

Gene: Gsput1_56 Start: 38093, Stop: 38275, Start Num: 8
Candidate Starts for Gsput1_56:
(Start: 8 @38093 has 8 MA's), (Start: 9 @38096 has 10 MA's), (14, 38135), (21, 38174), (29, 38243),

Gene: Guey18_122 Start: 57700, Stop: 57900, Start Num: 9
Candidate Starts for Guey18_122:
(Start: 9 @57700 has 10 MA's), (12, 57712), (22, 57793), (24, 57817),

Gene: Huffy_65 Start: 39517, Stop: 39708, Start Num: 8
Candidate Starts for Huffy_65:
(Start: 8 @39517 has 8 MA's), (Start: 9 @39520 has 10 MA's), (17, 39589), (20, 39604), (21, 39610),

Gene: Keelan_119 Start: 57239, Stop: 57442, Start Num: 9
Candidate Starts for Keelan_119:
(Start: 9 @57239 has 10 MA's), (12, 57251), (15, 57296), (29, 57404),

Gene: Kudefre_115 Start: 63249, Stop: 63452, Start Num: 10
Candidate Starts for Kudefre_115:
(Start: 10 @63249 has 4 MA's), (19, 63312), (23, 63351), (30, 63420),

Gene: LilJank_110 Start: 65517, Stop: 65708, Start Num: 11
Candidate Starts for LilJank_110:
(5, 65409), (7, 65466), (Start: 11 @65517 has 3 MA's), (14, 65556), (18, 65574), (22, 65595), (29, 65664), (31, 65691),

Gene: Nebkiss_129 Start: 69430, Stop: 69615, Start Num: 9
Candidate Starts for Nebkiss_129:
(Start: 9 @69430 has 10 MA's), (20, 69508), (29, 69589),

Gene: Neville_112 Start: 64141, Stop: 64332, Start Num: 11
Candidate Starts for Neville_112:
(7, 64090), (Start: 11 @64141 has 3 MA's), (14, 64180), (22, 64219), (25, 64258), (27, 64267), (28, 64276), (29, 64288), (30, 64303),

Gene: Octobien14_111 Start: 62041, Stop: 62244, Start Num: 10
Candidate Starts for Octobien14_111:
(Start: 10 @62041 has 4 MA's), (19, 62104), (23, 62143), (29, 62197), (30, 62212),

Gene: Rabbitrun_114 Start: 65218, Stop: 65409, Start Num: 11
Candidate Starts for Rabbitrun_114:
(Start: 11 @65218 has 3 MA's), (14, 65257), (22, 65296), (25, 65335), (27, 65344), (28, 65353), (30, 65380),

Gene: Ronaldo_119 Start: 57282, Stop: 57482, Start Num: 9
Candidate Starts for Ronaldo_119:
(Start: 9 @57282 has 10 MA's), (12, 57294), (22, 57375), (24, 57399),

Gene: Schmidt_59 Start: 37127, Stop: 37318, Start Num: 8
Candidate Starts for Schmidt_59:
(1, 36872), (2, 36926), (3, 36935), (4, 36983), (Start: 6 @37067 has 1 MA's), (Start: 8 @37127 has 8 MA's), (Start: 9 @37130 has 10 MA's), (14, 37172), (20, 37205), (21, 37211), (29, 37286),

Gene: Sephiroth_111 Start: 63004, Stop: 63207, Start Num: 10
Candidate Starts for Sephiroth_111:
(Start: 10 @63004 has 4 MA's), (19, 63067), (23, 63106), (30, 63175),

Gene: Splinter_65 Start: 40605, Stop: 40796, Start Num: 8

Candidate Starts for Splinter_65:
(Start: 8 @40605 has 8 MA's), (Start: 9 @40608 has 10 MA's), (21, 40698),

Gene: Syleon_116 Start: 63786, Stop: 63989, Start Num: 10
Candidate Starts for Syleon_116:
(Start: 10 @63786 has 4 MA's), (19, 63849), (23, 63888), (30, 63957),

Gene: TZGordon_66 Start: 39493, Stop: 39684, Start Num: 8
Candidate Starts for TZGordon_66:
(Start: 8 @39493 has 8 MA's), (Start: 9 @39496 has 10 MA's), (17, 39565), (20, 39580), (21, 39586),

Gene: TinaLin_64 Start: 39339, Stop: 39527, Start Num: 9
Candidate Starts for TinaLin_64:
(Start: 8 @39336 has 8 MA's), (Start: 9 @39339 has 10 MA's), (21, 39429),

Gene: Trax_114 Start: 65135, Stop: 65326, Start Num: 11
Candidate Starts for Trax_114:
(5, 65027), (7, 65084), (Start: 11 @65135 has 3 MA's), (14, 65174), (18, 65192), (22, 65213), (29, 65282), (31, 65309),

Gene: Vendetta_65 Start: 40605, Stop: 40796, Start Num: 8
Candidate Starts for Vendetta_65:
(Start: 8 @40605 has 8 MA's), (Start: 9 @40608 has 10 MA's), (21, 40698),

Gene: Volt_122 Start: 57446, Stop: 57646, Start Num: 9
Candidate Starts for Volt_122:
(Start: 9 @57446 has 10 MA's), (12, 57458), (22, 57539), (24, 57563),

Gene: Ziko_120 Start: 57288, Stop: 57488, Start Num: 9
Candidate Starts for Ziko_120:
(Start: 9 @57288 has 10 MA's), (12, 57300), (22, 57381), (24, 57405),