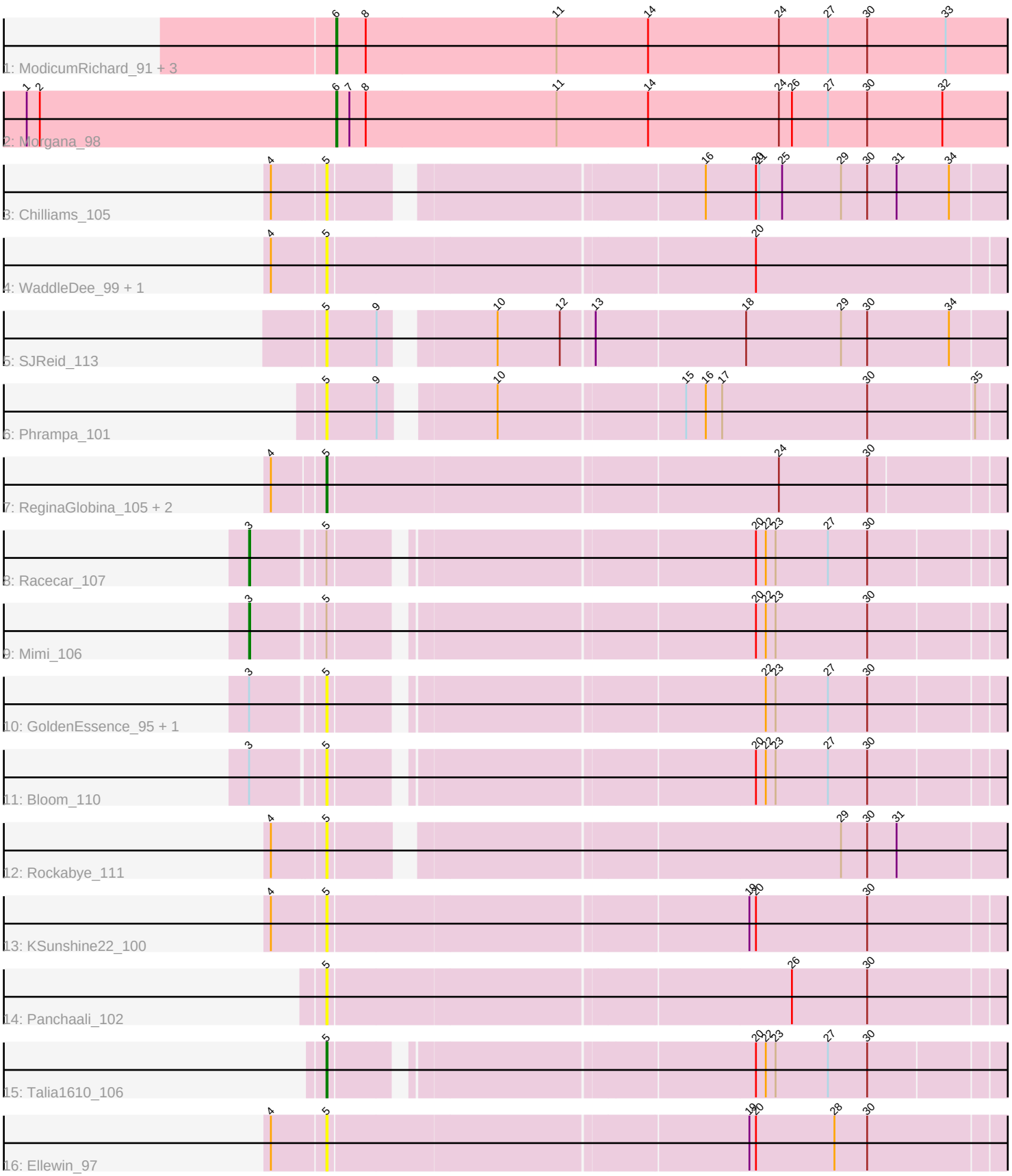
Pham 224867


1: ModicumRichard_91 + 3
2: Morgana_98
3: Chilliams_105
4: WaddleDee_99 + 1
5: SJReid_113
6: Phrampa_101
7: ReginaGlobina_105 + 2
8: Racecar_107
9: Mimi_106
10: GoldenEssence_95 + 1
11: Bloom_110
12: Rockabye_111
13: KSunshine22_100
14: Panchaali_102
15: Talia1610_106
16: Ellewin_97

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 224867 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224867 has 23 members, 15 are drafts.

Phages represented in each track:
• Track 1 : ModicumRichard_91, Aleemily_90, Cafasso_91, ObLaDi_91
• Track 2 : Morgana_98
• Track 3 : Chilliams_105
• Track 4 : WaddleDee_99, DunneganBoMo_99
• Track 5 : SJReid_113
• Track 6 : Phrampa_101
• Track 7 : ReginaGlobina_105, LeoJr_105, Atuin_100
• Track 8 : Racecar_107
• Track 9 : Mimi_106
• Track 10 : GoldenEssence_95, Patbob_107
• Track 11 : Bloom_110
• Track 12 : Rockabye_111
• Track 13 : KSunshine22_100
• Track 14 : Panchaali_102
• Track 15 : Talia1610_106
• Track 16 : Ellewin_97

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 4 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aleemily_90, Cafasso_91, ModicumRichard_91, Morgana_98, ObLaDi_91,

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

Genes that do not have the "Most Annotated" start:
• Atuin_100, Bloom_110, Chilliams_105, DunneganBoMo_99, Ellewin_97, GoldenEssence_95, KSunshine22_100, LeoJr_105, Mimi_106, Panchaali_102, Patbob_107, Phrampa_101, Racecar_107, ReginaGlobina_105, Rockabye_111, SJReid_113, Talia1610_106, WaddleDee_99,

Summary by start number:

Start 3:
• Found in 5 of 23 (21.7%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Mimi_106 (FC), Racecar_107 (FC),

Start 5:
• Found in 18 of 23 (78.3%) of genes in pham
• Manual Annotations of this start: 2 of 8
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Atuin_100 (FC), Bloom_110 (FC), Chilliams_105 (FC), DunneganBoMo_99 (FC), Ellewin_97 (FC), GoldenEssence_95 (FC), KSunshine22_100 (FC), LeoJr_105 (FC), Panchaali_102 (FC), Patbob_107 (FC), Phrampa_101 (FC), ReginaGlobina_105 (FC), Rockabye_111 (FC), SJReid_113 (FC), Talia1610_106 (FC), WaddleDee_99 (FC),

Start 6:
• Found in 5 of 23 (21.7%) of genes in pham
• Manual Annotations of this start: 4 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aleemily_90 (DZ), Cafasso_91 (DZ), ModicumRichard_91 (DZ), Morgana_98 (DZ), ObLaDi_91 (DZ),

Summary by clusters:

There are 2 clusters represented in this pham: FC, DZ,

Info for manual annotations of cluster DZ:
•Start number 6 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster FC:
•Start number 3 was manually annotated 2 times for cluster FC.
•Start number 5 was manually annotated 2 times for cluster FC.

Gene Information:

Gene: Aleemily_90 Start: 53699, Stop: 54325, Start Num: 6
Candidate Starts for Aleemily_90:
(Start: 6 @53699 has 4 MA's), (8, 53726), (11, 53900), (14, 53984), (24, 54104), (27, 54149), (30, 54185), (33, 54257),

Gene: Atuin_100 Start: 85986, Stop: 86594, Start Num: 5
Candidate Starts for Atuin_100:
(4, 85941), (Start: 5 @85986 has 2 MA's), (24, 86382), (30, 86463),

Gene: Bloom_110 Start: 86089, Stop: 86679, Start Num: 5
Candidate Starts for Bloom_110:
(Start: 3 @86026 has 2 MA's), (Start: 5 @86089 has 2 MA's), (20, 86443), (22, 86452), (23, 86461), (27, 86509), (30, 86545),

Gene: Cafasso_91 Start: 53851, Stop: 54477, Start Num: 6
Candidate Starts for Cafasso_91:
(Start: 6 @53851 has 4 MA's), (8, 53878), (11, 54052), (14, 54136), (24, 54256), (27, 54301), (30, 54337), (33, 54409),

Gene: Chilliams_105 Start: 78852, Stop: 79442, Start Num: 5
Candidate Starts for Chilliams_105:
(4, 78807), (Start: 5 @78852 has 2 MA's), (16, 79158), (20, 79203), (21, 79206), (25, 79227), (29, 79281), (30, 79305), (31, 79332), (34, 79380),

Gene: DunneganBoMo_99 Start: 81871, Stop: 82482, Start Num: 5
Candidate Starts for DunneganBoMo_99:
(4, 81823), (Start: 5 @81871 has 2 MA's), (20, 82246),

Gene: Ellewin_97 Start: 81282, Stop: 81893, Start Num: 5
Candidate Starts for Ellewin_97:
(4, 81234), (Start: 5 @81282 has 2 MA's), (19, 81651), (20, 81657), (28, 81729), (30, 81759),

Gene: GoldenEssence_95 Start: 79881, Stop: 80471, Start Num: 5
Candidate Starts for GoldenEssence_95:
(Start: 3 @79818 has 2 MA's), (Start: 5 @79881 has 2 MA's), (22, 80244), (23, 80253), (27, 80301), (30, 80337),

Gene: KSunshine22_100 Start: 82883, Stop: 83494, Start Num: 5
Candidate Starts for KSunshine22_100:
(4, 82835), (Start: 5 @82883 has 2 MA's), (19, 83252), (20, 83258), (30, 83360),

Gene: LeoJr_105 Start: 86221, Stop: 86829, Start Num: 5
Candidate Starts for LeoJr_105:
(4, 86176), (Start: 5 @86221 has 2 MA's), (24, 86617), (30, 86698),

Gene: Mimi_106 Start: 85373, Stop: 86026, Start Num: 3
Candidate Starts for Mimi_106:
(Start: 3 @85373 has 2 MA's), (Start: 5 @85436 has 2 MA's), (20, 85790), (22, 85799), (23, 85808), (30, 85892),

Gene: ModicumRichard_91 Start: 53919, Stop: 54545, Start Num: 6
Candidate Starts for ModicumRichard_91:
(Start: 6 @53919 has 4 MA's), (8, 53946), (11, 54120), (14, 54204), (24, 54324), (27, 54369), (30, 54405), (33, 54477),

Gene: Morgana_98 Start: 56101, Stop: 56727, Start Num: 6
Candidate Starts for Morgana_98:
(1, 55819), (2, 55831), (Start: 6 @56101 has 4 MA's), (7, 56113), (8, 56128), (11, 56302), (14, 56386), (24, 56506), (26, 56518), (27, 56551), (30, 56587), (32, 56656),

Gene: ObLaDi_91 Start: 53945, Stop: 54571, Start Num: 6
Candidate Starts for ObLaDi_91:
(Start: 6 @53945 has 4 MA's), (8, 53972), (11, 54146), (14, 54230), (24, 54350), (27, 54395), (30, 54431), (33, 54503),

Gene: Panchaali_102 Start: 82860, Stop: 83471, Start Num: 5

Candidate Starts for Panchaali_102:
(Start: 5 @82860 has 2 MA's), (26, 83268), (30, 83337),

Gene: Patbob_107 Start: 86171, Stop: 86761, Start Num: 5
Candidate Starts for Patbob_107:
(Start: 3 @86108 has 2 MA's), (Start: 5 @86171 has 2 MA's), (22, 86534), (23, 86543), (27, 86591), (30, 86627),

Gene: Phrampa_101 Start: 87574, Stop: 88167, Start Num: 5
Candidate Starts for Phrampa_101:
(Start: 5 @87574 has 2 MA's), (9, 87619), (10, 87703), (15, 87865), (16, 87883), (17, 87898), (30, 88030), (35, 88126),

Gene: Racecar_107 Start: 86026, Stop: 86679, Start Num: 3
Candidate Starts for Racecar_107:
(Start: 3 @86026 has 2 MA's), (Start: 5 @86089 has 2 MA's), (20, 86443), (22, 86452), (23, 86461), (27, 86509), (30, 86545),

Gene: ReginaGlobina_105 Start: 85786, Stop: 86394, Start Num: 5
Candidate Starts for ReginaGlobina_105:
(4, 85741), (Start: 5 @85786 has 2 MA's), (24, 86182), (30, 86263),

Gene: Rockabye_111 Start: 79290, Stop: 79880, Start Num: 5
Candidate Starts for Rockabye_111:
(4, 79245), (Start: 5 @79290 has 2 MA's), (29, 79719), (30, 79743), (31, 79770),

Gene: SJReid_113 Start: 78336, Stop: 78929, Start Num: 5
Candidate Starts for SJReid_113:
(Start: 5 @78336 has 2 MA's), (9, 78381), (10, 78465), (12, 78522), (13, 78549), (18, 78681), (29, 78768), (30, 78792), (34, 78867),

Gene: Talia1610_106 Start: 85455, Stop: 86045, Start Num: 5
Candidate Starts for Talia1610_106:
(Start: 5 @85455 has 2 MA's), (20, 85809), (22, 85818), (23, 85827), (27, 85875), (30, 85911),

Gene: WaddleDee_99 Start: 81057, Stop: 81668, Start Num: 5
Candidate Starts for WaddleDee_99:
(4, 81009), (Start: 5 @81057 has 2 MA's), (20, 81432),