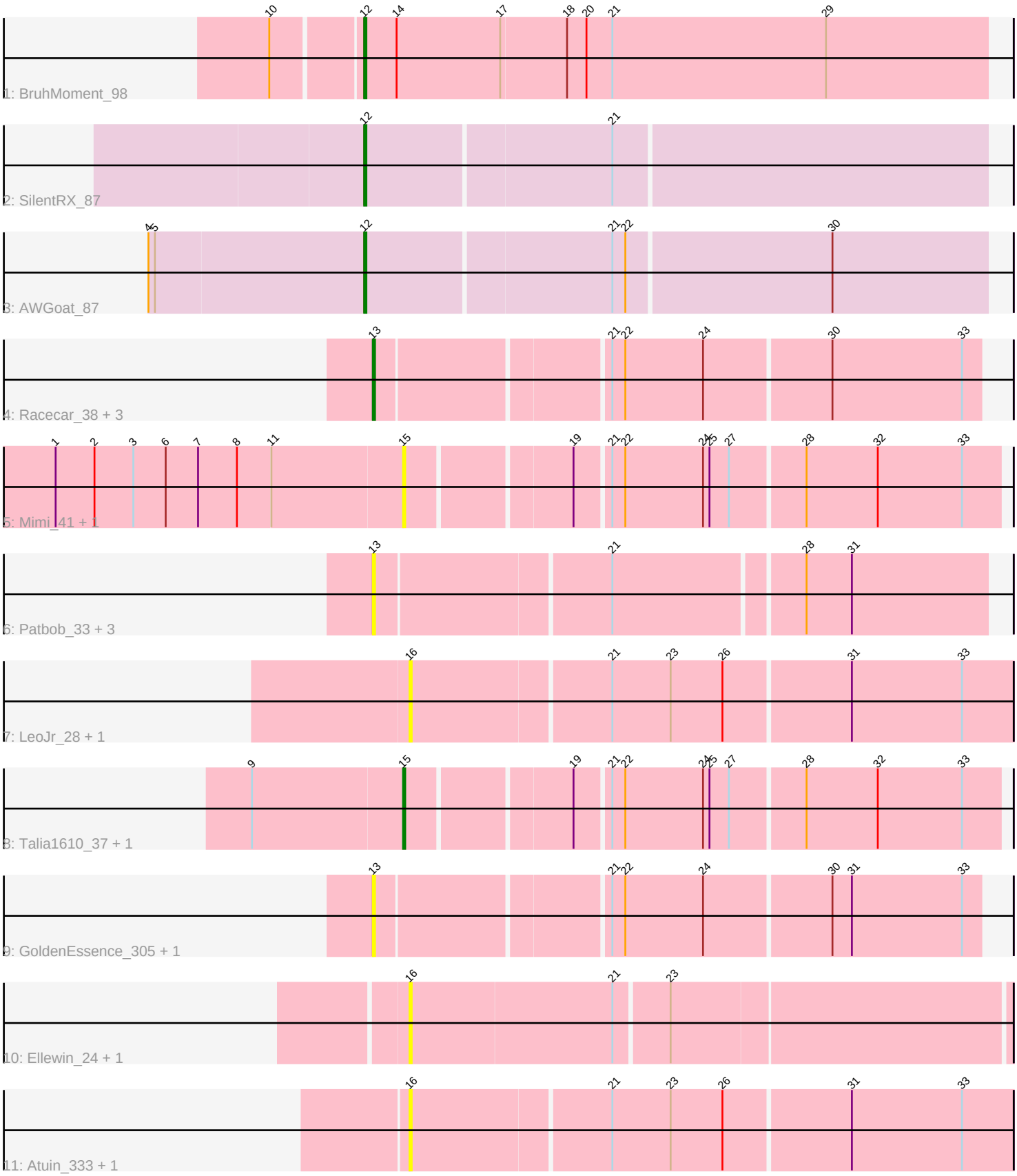
Pham 200604


10 12 14 17 18 20 21 29
1: BruhMoment_98
12 21
2: SilentRX_87
4 5 12 21 22 30
3: AWGoat_87
13 21 22 24 30 33
4: Racecar_38 + 3
1 2 3 6 7 8 11 15 19 21 22 24 25 27 28 32 33
5: Mimi_41 + 1
13 21 28 31
6: Patbob_33 + 3
16 21 23 26 31 33
7: LeoJr_28 + 1
9 15 19 21 22 24 25 27 28 32 33
8: Talia1610_37 + 1
13 21 22 24 30 31 33
9: GoldenEssence_305 + 1
16 21 23
10: Ellewin_24 + 1
16 21 23 26 31 33
11: Atuin_333 + 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 200604 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200604 has 23 members, 16 are drafts.

Phages represented in each track:
• Track 1 : BruhMoment_98
• Track 2 : SilentRX_87
• Track 3 : AWGoat_87
• Track 4 : Racecar_38, Bloom_41, Racecar_327, Bloom_328
• Track 5 : Mimi_41, Mimi_331
• Track 6 : Patbob_33, Patbob_323, Phrampa_314, Phrampa_29
• Track 7 : LeoJr_28, LeoJr_341
• Track 8 : Talia1610_37, Talia1610_323
• Track 9 : GoldenEssence_305, GoldenEssence_23
• Track 10 : Ellewin_24, Ellewin_323
• Track 11 : Atuin_333, Atuin_26

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

The start number called the most often in the published annotations is 12, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AWGoat_87, BruhMoment_98, SilentRX_87,

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

Genes that do not have the "Most Annotated" start:
• Atuin_26, Atuin_333, Bloom_328, Bloom_41, Ellewin_24, Ellewin_323, GoldenEssence_23, GoldenEssence_305, LeoJr_28, LeoJr_341, Mimi_331, Mimi_41, Patbob_323, Patbob_33, Phrampa_29, Phrampa_314, Racecar_327, Racecar_38, Talia1610_323, Talia1610_37,

Summary by start number:

Start 12:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 3 of 7

• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_87 (AP4), BruhMoment_98 (AP3), SilentRX_87 (AP4),

Start 13:
• Found in 10 of 23 (43.5%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_328 (FC), Bloom_41 (FC), GoldenEssence_23 (FC), GoldenEssence_305 (FC), Patbob_323 (FC), Patbob_33 (FC), Phrampa_29 (FC), Phrampa_314 (FC), Racecar_327 (FC), Racecar_38 (FC),

Start 15:
• Found in 4 of 23 (17.4%) of genes in pham
• Manual Annotations of this start: 2 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mimi_331 (FC), Mimi_41 (FC), Talia1610_323 (FC), Talia1610_37 (FC),

Start 16:
• Found in 6 of 23 (26.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_26 (FC), Atuin_333 (FC), Ellewin_24 (FC), Ellewin_323 (FC), LeoJr_28 (FC), LeoJr_341 (FC),

Summary by clusters:

There are 3 clusters represented in this pham: AP3, FC, AP4,

Info for manual annotations of cluster AP3:
•Start number 12 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 12 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster FC:
•Start number 13 was manually annotated 2 times for cluster FC.
•Start number 15 was manually annotated 2 times for cluster FC.

Gene Information:

Gene: AWGoat_87 Start: 57837, Stop: 57556, Start Num: 12
Candidate Starts for AWGoat_87:
(4, 57936), (5, 57933), (Start: 12 @57837 has 3 MA's), (21, 57726), (22, 57720), (30, 57627),

Gene: Atuin_333 Start: 188565, Stop: 188837, Start Num: 16
Candidate Starts for Atuin_333:
(16, 188565), (21, 188655), (23, 188682), (26, 188706), (31, 188763), (33, 188814),

Gene: Atuin_26 Start: 11677, Stop: 11949, Start Num: 16

Candidate Starts for Atuin_26:
(16, 11677), (21, 11767), (23, 11794), (26, 11818), (31, 11875), (33, 11926),

Gene: Bloom_41 Start: 16957, Stop: 17226, Start Num: 13
Candidate Starts for Bloom_41:
(Start: 13 @16957 has 2 MA's), (21, 17059), (22, 17065), (24, 17101), (30, 17158), (33, 17218),

Gene: Bloom_328 Start: 190432, Stop: 190701, Start Num: 13
Candidate Starts for Bloom_328:
(Start: 13 @190432 has 2 MA's), (21, 190534), (22, 190540), (24, 190576), (30, 190633), (33, 190693),

Gene: BruhMoment_98 Start: 60883, Stop: 60596, Start Num: 12
Candidate Starts for BruhMoment_98:
(10, 60922), (Start: 12 @60883 has 3 MA's), (14, 60868), (17, 60820), (18, 60790), (20, 60781), (21, 60769), (29, 60670),

Gene: Ellewin_24 Start: 10620, Stop: 10889, Start Num: 16
Candidate Starts for Ellewin_24:
(16, 10620), (21, 10713), (23, 10737),

Gene: Ellewin_323 Start: 189734, Stop: 190003, Start Num: 16
Candidate Starts for Ellewin_323:
(16, 189734), (21, 189827), (23, 189851),

Gene: GoldenEssence_305 Start: 180432, Stop: 180701, Start Num: 13
Candidate Starts for GoldenEssence_305:
(Start: 13 @180432 has 2 MA's), (21, 180534), (22, 180540), (24, 180576), (30, 180633), (31, 180642), (33, 180693),

Gene: GoldenEssence_23 Start: 9879, Stop: 10148, Start Num: 13
Candidate Starts for GoldenEssence_23:
(Start: 13 @9879 has 2 MA's), (21, 9981), (22, 9987), (24, 10023), (30, 10080), (31, 10089), (33, 10140),

Gene: LeoJr_28 Start: 11981, Stop: 12253, Start Num: 16
Candidate Starts for LeoJr_28:
(16, 11981), (21, 12071), (23, 12098), (26, 12122), (31, 12179), (33, 12230),

Gene: LeoJr_341 Start: 189284, Stop: 189556, Start Num: 16
Candidate Starts for LeoJr_341:
(16, 189284), (21, 189374), (23, 189401), (26, 189425), (31, 189482), (33, 189533),

Gene: Mimi_41 Start: 16134, Stop: 16397, Start Num: 15
Candidate Starts for Mimi_41:
(1, 15975), (2, 15993), (3, 16011), (6, 16026), (7, 16041), (8, 16059), (11, 16074), (Start: 15 @16134 has 2 MA's), (19, 16206), (21, 16221), (22, 16227), (24, 16263), (25, 16266), (27, 16275), (28, 16308), (32, 16341), (33, 16380),

Gene: Mimi_331 Start: 188794, Stop: 189057, Start Num: 15
Candidate Starts for Mimi_331:
(1, 188635), (2, 188653), (3, 188671), (6, 188686), (7, 188701), (8, 188719), (11, 188734), (Start: 15 @188794 has 2 MA's), (19, 188866), (21, 188881), (22, 188887), (24, 188923), (25, 188926), (27, 188935), (28, 188968), (32, 189001), (33, 189040),

Gene: Patbob_33 Start: 15693, Stop: 15965, Start Num: 13
Candidate Starts for Patbob_33:
(Start: 13 @15693 has 2 MA's), (21, 15798), (28, 15882), (31, 15903),

Gene: Patbob_323 Start: 191152, Stop: 191424, Start Num: 13
Candidate Starts for Patbob_323:
(Start: 13 @191152 has 2 MA's), (21, 191257), (28, 191341), (31, 191362),

Gene: Phrampa_314 Start: 189335, Stop: 189607, Start Num: 13
Candidate Starts for Phrampa_314:
(Start: 13 @189335 has 2 MA's), (21, 189440), (28, 189524), (31, 189545),

Gene: Phrampa_29 Start: 12964, Stop: 13236, Start Num: 13
Candidate Starts for Phrampa_29:
(Start: 13 @12964 has 2 MA's), (21, 13069), (28, 13153), (31, 13174),

Gene: Racecar_38 Start: 16725, Stop: 16994, Start Num: 13
Candidate Starts for Racecar_38:
(Start: 13 @16725 has 2 MA's), (21, 16827), (22, 16833), (24, 16869), (30, 16926), (33, 16986),

Gene: Racecar_327 Start: 190434, Stop: 190703, Start Num: 13
Candidate Starts for Racecar_327:
(Start: 13 @190434 has 2 MA's), (21, 190536), (22, 190542), (24, 190578), (30, 190635), (33, 190695),

Gene: SilentRX_87 Start: 58117, Stop: 57836, Start Num: 12
Candidate Starts for SilentRX_87:
(Start: 12 @58117 has 3 MA's), (21, 58006),

Gene: Talia1610_37 Start: 16152, Stop: 16415, Start Num: 15
Candidate Starts for Talia1610_37:
(9, 16083), (Start: 15 @16152 has 2 MA's), (19, 16224), (21, 16239), (22, 16245), (24, 16281), (25, 16284), (27, 16293), (28, 16326), (32, 16359), (33, 16398),

Gene: Talia1610_323 Start: 190624, Stop: 190887, Start Num: 15
Candidate Starts for Talia1610_323:
(9, 190555), (Start: 15 @190624 has 2 MA's), (19, 190696), (21, 190711), (22, 190717), (24, 190753), (25, 190756), (27, 190765), (28, 190798), (32, 190831), (33, 190870),