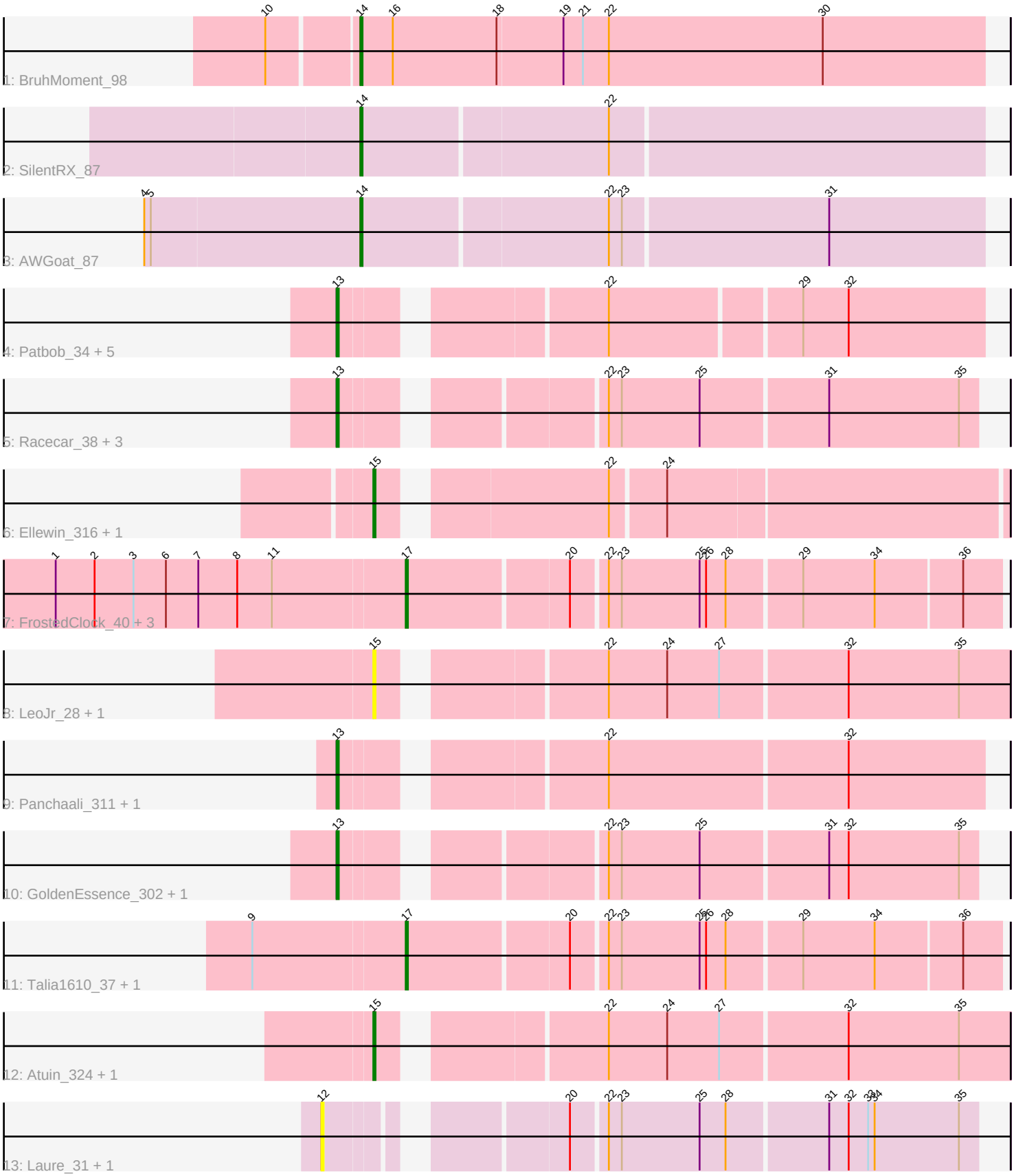
Pham 293022


10
14
16
18
19
21
22
30
1: BruhMoment_98
14
22
2: SilentRX_87
4
5
14
22
23
31
3: AWGoat_87
13
22
29
32
4: Patbob_34 + 5
13
22
23
25
31
35
5: Racecar_38 + 3
15
22
24
6: Ellewin_316 + 1
1
2
3
6
7
8
11
17
20
22
23
25
26
28
29
34
36
7: FrostedClock_40 + 3
15
22
24
27
32
35
8: LeoJr_28 + 1
13
22
32
9: Panchaali_311 + 1
13
22
23
25
31
32
35
10: GoldenEssence_302 + 1
9
17
20
22
23
25
26
28
29
34
36
11: Talia1610_37 + 1
15
22
24
27
32
35
12: Atuin_324 + 1
12
20
22
23
25
28
31
32
34
35
13: Laure_31 + 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 293022 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293022 has 31 members, 10 are drafts.

Phages represented in each track:
• Track 1 : BruhMoment_98
• Track 2 : SilentRX_87
• Track 3 : AWGoat_87
• Track 4 : Patbob_34, Phrampa_312, FloraSnap32_32, FloraSnap32_317, Patbob_320, Phrampa_28
• Track 5 : Racecar_38, Bloom_41, Racecar_327, Bloom_328
• Track 6 : Ellewin_316, Ellewin_23
• Track 7 : FrostedClock_40, Mimi_37, FrostedClock_325, Mimi_322
• Track 8 : LeoJr_28, LeoJr_341
• Track 9 : Panchaali_311, Panchaali_24
• Track 10 : GoldenEssence_302, GoldenEssence_21
• Track 11 : Talia1610_37, Talia1610_323
• Track 12 : Atuin_324, Atuin_24
• Track 13 : Laure_31, Laure_349

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

The start number called the most often in the published annotations is 13, it was called in 10 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bloom_328, Bloom_41, FloraSnap32_317, FloraSnap32_32, GoldenEssence_21, GoldenEssence_302, Panchaali_24, Panchaali_311, Patbob_320, Patbob_34, Phrampa_28, Phrampa_312, Racecar_327, Racecar_38,

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

Genes that do not have the "Most Annotated" start:
• AWGoat_87, Atuin_24, Atuin_324, BruhMoment_98, Ellewin_23, Ellewin_316, FrostedClock_325, FrostedClock_40, Laure_31, Laure_349, LeoJr_28, LeoJr_341, Mimi_322, Mimi_37, SilentRX_87, Talia1610_323, Talia1610_37,

Summary by start number:

Start 12:
• Found in 2 of 31 (6.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_31 (UNK), Laure_349 (UNK),

Start 13:
• Found in 14 of 31 (45.2%) of genes in pham
• Manual Annotations of this start: 10 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_328 (FC), Bloom_41 (FC), FloraSnap32_317 (FC), FloraSnap32_32 (FC), GoldenEssence_21 (FC), GoldenEssence_302 (FC), Panchaali_24 (FC), Panchaali_311 (FC), Patbob_320 (FC), Patbob_34 (FC), Phrampa_28 (FC), Phrampa_312 (FC), Racecar_327 (FC), Racecar_38 (FC),

Start 14:
• Found in 3 of 31 (9.7%) of genes in pham
• Manual Annotations of this start: 3 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AWGoat_87 (AP4), BruhMoment_98 (AP3), SilentRX_87 (AP4),

Start 15:
• Found in 6 of 31 (19.4%) of genes in pham
• Manual Annotations of this start: 4 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_24 (FC), Atuin_324 (FC), Ellewin_23 (FC), Ellewin_316 (FC), LeoJr_28 (FC), LeoJr_341 (FC),

Start 17:
• Found in 6 of 31 (19.4%) of genes in pham
• Manual Annotations of this start: 4 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FrostedClock_325 (FC), FrostedClock_40 (FC), Mimi_322 (FC), Mimi_37 (FC), Talia1610_323 (FC), Talia1610_37 (FC),

Summary by clusters:

There are 4 clusters represented in this pham: AP3, UNK, FC, AP4,

Info for manual annotations of cluster AP3:
•Start number 14 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:
•Start number 14 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster FC:
•Start number 13 was manually annotated 10 times for cluster FC.
•Start number 15 was manually annotated 4 times for cluster FC.
•Start number 17 was manually annotated 4 times for cluster FC.

Gene Information:

Gene: AWGoat_87 Start: 57837, Stop: 57556, Start Num: 14
Candidate Starts for AWGoat_87:
(4, 57936), (5, 57933), (Start: 14 @57837 has 3 MA's), (22, 57726), (23, 57720), (31, 57627),

Gene: Atuin_324 Start: 188565, Stop: 188837, Start Num: 15
Candidate Starts for Atuin_324:
(Start: 15 @188565 has 4 MA's), (22, 188655), (24, 188682), (27, 188706), (32, 188763), (35, 188814),

Gene: Atuin_24 Start: 11677, Stop: 11949, Start Num: 15
Candidate Starts for Atuin_24:
(Start: 15 @11677 has 4 MA's), (22, 11767), (24, 11794), (27, 11818), (32, 11875), (35, 11926),

Gene: Bloom_41 Start: 16957, Stop: 17226, Start Num: 13
Candidate Starts for Bloom_41:
(Start: 13 @16957 has 10 MA's), (22, 17059), (23, 17065), (25, 17101), (31, 17158), (35, 17218),

Gene: Bloom_328 Start: 190432, Stop: 190701, Start Num: 13
Candidate Starts for Bloom_328:
(Start: 13 @190432 has 10 MA's), (22, 190534), (23, 190540), (25, 190576), (31, 190633), (35, 190693),

Gene: BruhMoment_98 Start: 60883, Stop: 60596, Start Num: 14
Candidate Starts for BruhMoment_98:
(10, 60922), (Start: 14 @60883 has 3 MA's), (16, 60868), (18, 60820), (19, 60790), (21, 60781), (22, 60769), (30, 60670),

Gene: Ellewin_316 Start: 189734, Stop: 190003, Start Num: 15
Candidate Starts for Ellewin_316:
(Start: 15 @189734 has 4 MA's), (22, 189827), (24, 189851),

Gene: Ellewin_23 Start: 10620, Stop: 10889, Start Num: 15
Candidate Starts for Ellewin_23:
(Start: 15 @10620 has 4 MA's), (22, 10713), (24, 10737),

Gene: FloraSnap32_32 Start: 14508, Stop: 14780, Start Num: 13
Candidate Starts for FloraSnap32_32:
(Start: 13 @14508 has 10 MA's), (22, 14613), (29, 14697), (32, 14718),

Gene: FloraSnap32_317 Start: 188646, Stop: 188918, Start Num: 13
Candidate Starts for FloraSnap32_317:
(Start: 13 @188646 has 10 MA's), (22, 188751), (29, 188835), (32, 188856),

Gene: FrostedClock_40 Start: 16239, Stop: 16502, Start Num: 17
Candidate Starts for FrostedClock_40:
(1, 16080), (2, 16098), (3, 16116), (6, 16131), (7, 16146), (8, 16164), (11, 16179), (Start: 17 @16239 has 4 MA's), (20, 16311), (22, 16326), (23, 16332), (25, 16368), (26, 16371), (28, 16380), (29, 16413), (34, 16446), (36, 16485),

Gene: FrostedClock_325 Start: 190039, Stop: 190302, Start Num: 17
Candidate Starts for FrostedClock_325:
(1, 189880), (2, 189898), (3, 189916), (6, 189931), (7, 189946), (8, 189964), (11, 189979), (Start: 17 @190039 has 4 MA's), (20, 190111), (22, 190126), (23, 190132), (25, 190168), (26, 190171), (28, 190180), (29, 190213), (34, 190246), (36, 190285),

Gene: GoldenEssence_302 Start: 180432, Stop: 180701, Start Num: 13
Candidate Starts for GoldenEssence_302:
(Start: 13 @180432 has 10 MA's), (22, 180534), (23, 180540), (25, 180576), (31, 180633), (32, 180642), (35, 180693),

Gene: GoldenEssence_21 Start: 9879, Stop: 10148, Start Num: 13
Candidate Starts for GoldenEssence_21:
(Start: 13 @9879 has 10 MA's), (22, 9981), (23, 9987), (25, 10023), (31, 10080), (32, 10089), (35, 10140),

Gene: Laure_31 Start: 13871, Stop: 14143, Start Num: 12
Candidate Starts for Laure_31:
(12, 13871), (20, 13961), (22, 13976), (23, 13982), (25, 14018), (28, 14030), (31, 14075), (32, 14084), (33, 14093), (34, 14096), (35, 14135),

Gene: Laure_349 Start: 182219, Stop: 182491, Start Num: 12
Candidate Starts for Laure_349:
(12, 182219), (20, 182309), (22, 182324), (23, 182330), (25, 182366), (28, 182378), (31, 182423), (32, 182432), (33, 182441), (34, 182444), (35, 182483),

Gene: LeoJr_28 Start: 11981, Stop: 12253, Start Num: 15
Candidate Starts for LeoJr_28:
(Start: 15 @11981 has 4 MA's), (22, 12071), (24, 12098), (27, 12122), (32, 12179), (35, 12230),

Gene: LeoJr_341 Start: 189284, Stop: 189556, Start Num: 15
Candidate Starts for LeoJr_341:
(Start: 15 @189284 has 4 MA's), (22, 189374), (24, 189401), (27, 189425), (32, 189482), (35, 189533),

Gene: Mimi_37 Start: 16134, Stop: 16397, Start Num: 17
Candidate Starts for Mimi_37:
(1, 15975), (2, 15993), (3, 16011), (6, 16026), (7, 16041), (8, 16059), (11, 16074), (Start: 17 @16134 has 4 MA's), (20, 16206), (22, 16221), (23, 16227), (25, 16263), (26, 16266), (28, 16275), (29, 16308), (34, 16341), (36, 16380),

Gene: Mimi_322 Start: 188794, Stop: 189057, Start Num: 17
Candidate Starts for Mimi_322:
(1, 188635), (2, 188653), (3, 188671), (6, 188686), (7, 188701), (8, 188719), (11, 188734), (Start: 17 @188794 has 4 MA's), (20, 188866), (22, 188881), (23, 188887), (25, 188923), (26, 188926), (28, 188935), (29, 188968), (34, 189001), (36, 189040),

Gene: Panchaali_311 Start: 189267, Stop: 189542, Start Num: 13
Candidate Starts for Panchaali_311:
(Start: 13 @189267 has 10 MA's), (22, 189372), (32, 189480),

Gene: Panchaali_24 Start: 10209, Stop: 10484, Start Num: 13
Candidate Starts for Panchaali_24:

(Start: 13 @10209 has 10 MA's), (22, 10314), (32, 10422),

Gene: Patbob_34 Start: 15693, Stop: 15965, Start Num: 13
Candidate Starts for Patbob_34:
(Start: 13 @15693 has 10 MA's), (22, 15798), (29, 15882), (32, 15903),

Gene: Patbob_320 Start: 191152, Stop: 191424, Start Num: 13
Candidate Starts for Patbob_320:
(Start: 13 @191152 has 10 MA's), (22, 191257), (29, 191341), (32, 191362),

Gene: Phrampa_312 Start: 189335, Stop: 189607, Start Num: 13
Candidate Starts for Phrampa_312:
(Start: 13 @189335 has 10 MA's), (22, 189440), (29, 189524), (32, 189545),

Gene: Phrampa_28 Start: 12964, Stop: 13236, Start Num: 13
Candidate Starts for Phrampa_28:
(Start: 13 @12964 has 10 MA's), (22, 13069), (29, 13153), (32, 13174),

Gene: Racecar_38 Start: 16725, Stop: 16994, Start Num: 13
Candidate Starts for Racecar_38:
(Start: 13 @16725 has 10 MA's), (22, 16827), (23, 16833), (25, 16869), (31, 16926), (35, 16986),

Gene: Racecar_327 Start: 190434, Stop: 190703, Start Num: 13
Candidate Starts for Racecar_327:
(Start: 13 @190434 has 10 MA's), (22, 190536), (23, 190542), (25, 190578), (31, 190635), (35, 190695),

Gene: SilentRX_87 Start: 58117, Stop: 57836, Start Num: 14
Candidate Starts for SilentRX_87:
(Start: 14 @58117 has 3 MA's), (22, 58006),

Gene: Talia1610_37 Start: 16152, Stop: 16415, Start Num: 17
Candidate Starts for Talia1610_37:
(9, 16083), (Start: 17 @16152 has 4 MA's), (20, 16224), (22, 16239), (23, 16245), (25, 16281), (26, 16284), (28, 16293), (29, 16326), (34, 16359), (36, 16398),

Gene: Talia1610_323 Start: 190624, Stop: 190887, Start Num: 17
Candidate Starts for Talia1610_323:
(9, 190555), (Start: 17 @190624 has 4 MA's), (20, 190696), (22, 190711), (23, 190717), (25, 190753), (26, 190756), (28, 190765), (29, 190798), (34, 190831), (36, 190870),