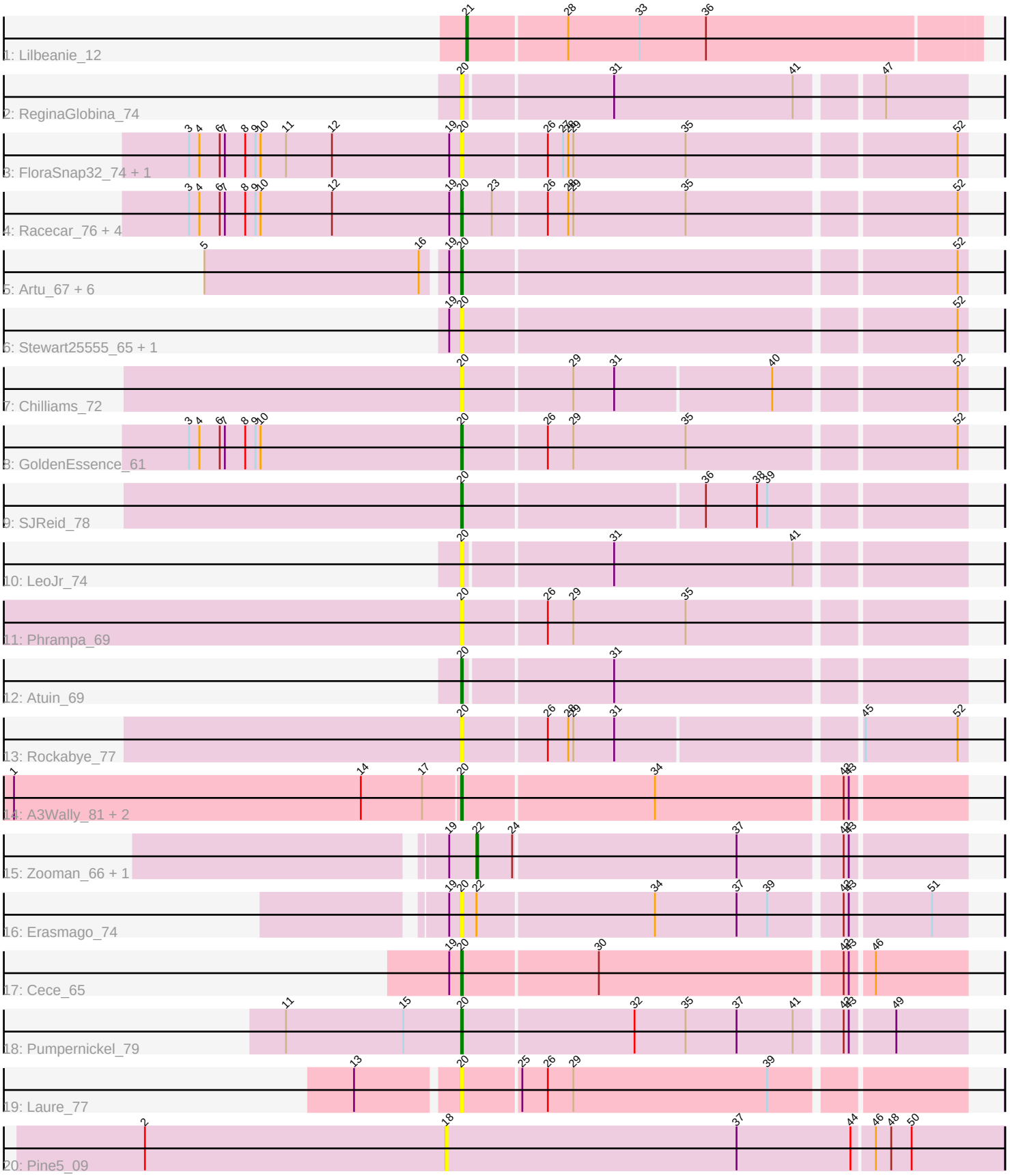
Pham 284018


1: Lilbeanie_12
2: ReginaGlobina_74
3: FloraSnap32_74 + 1
4: Racecar_76 + 4
5: Artu_67 + 6
6: Stewart25555_65 + 1
7: Chilliams_72
8: GoldenEssence_61
9: SJReid_78
10: LeoJr_74
11: Phrampa_69
12: Atuin_69
13: Rockabye_77
14: A3Wally_81 + 2
15: Zooman_66 + 1
16: Erasmago_74
17: Cece_65
18: Pumpernickel_79
19: Laure_77
20: Pine5_09

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 284018 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284018 has 35 members, 20 are drafts.

Phages represented in each track:
• Track 1 : Lilbeanie_12
• Track 2 : ReginaGlobina_74
• Track 3 : FloraSnap32_74, Patbob_75
• Track 4 : Racecar_76, Talia1610_75, Mimi_75, FrostedClock_78, Bloom_79
• Track 5 : Artu_67, KSunshine22_69, WaddleDee_62, DunneganBoMo_64, Emmetator_67, Ellewin_66, BooTeria_71
• Track 6 : Stewart25555_65, Panchaali_72
• Track 7 : Chilliams_72
• Track 8 : GoldenEssence_61
• Track 9 : SJReid_78
• Track 10 : LeoJr_74
• Track 11 : Phrampa_69
• Track 12 : Atuin_69
• Track 13 : Rockabye_77
• Track 14 : A3Wally_81, PauloDiaboli_81, Dodo_81
• Track 15 : Zooman_66, Big4_70
• Track 16 : Erasmago_74
• Track 17 : Cece_65
• Track 18 : Pumpernickel_79
• Track 19 : Laure_77
• Track 20 : Pine5_09

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

The start number called the most often in the published annotations is 20, it was called in 12 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_81, Artu_67, Atuin_69, Bloom_79, BooTeria_71, Cece_65, Chilliams_72, Dodo_81, DunneganBoMo_64, Ellewin_66, Emmetator_67, Erasmago_74, FloraSnap32_74, FrostedClock_78, GoldenEssence_61, KSunshine22_69, Laure_77, LeoJr_74, Mimi_75, Panchaali_72, Patbob_75, PauloDiaboli_81, Phrampa_69, Pumpernickel_79, Racecar_76, ReginaGlobina_74, Rockabye_77, SJReid_78, Stewart25555_65, Talia1610_75, WaddleDee_62,

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

Genes that do not have the "Most Annotated" start:
• Big4_70, Lilbeanie_12, Pine5_09, Zooman_66,

Summary by start number:

Start 18:
• Found in 1 of 35 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pine5_09 (singleton),

Start 20:
• Found in 31 of 35 (88.6%) of genes in pham
• Manual Annotations of this start: 12 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_81 (GD1), Artu_67 (FC), Atuin_69 (FC), Bloom_79 (FC), BooTeria_71 (FC), Cece_65 (GD3), Chilliams_72 (FC), Dodo_81 (GD1), DunneganBoMo_64 (FC), Ellewin_66 (FC), Emmetator_67 (FC), Erasmago_74 (GD2), FloraSnap32_74 (FC), FrostedClock_78 (FC), GoldenEssence_61 (FC), KSunshine22_69 (FC), Laure_77 (UNK), LeoJr_74 (FC), Mimi_75 (FC), Panchaali_72 (FC), Patbob_75 (FC), PauloDiaboli_81 (GD1), Phrampa_69 (FC), Pumpernickel_79 (GD4), Racecar_76 (FC), ReginaGlobina_74 (FC), Rockabye_77 (FC), SJReid_78 (FC), Stewart25555_65 (FC), Talia1610_75 (FC), WaddleDee_62 (FC),

Start 21:
• Found in 1 of 35 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lilbeanie_12 (DE5),

Start 22:
• Found in 3 of 35 (8.6%) of genes in pham
• Manual Annotations of this start: 2 of 15
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Big4_70 (GD2), Zooman_66 (GD2),

Summary by clusters:

There are 8 clusters represented in this pham: GD1, GD2, GD3, GD4, singleton, DE5, FC, UNK,

Info for manual annotations of cluster DE5:
•Start number 21 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster FC:
•Start number 20 was manually annotated 8 times for cluster FC.

Info for manual annotations of cluster GD1:

•Start number 20 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 22 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 20 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 20 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_81 Start: 29548, Stop: 29832, Start Num: 20
Candidate Starts for A3Wally_81:
(1, 29287), (14, 29491), (17, 29527), (Start: 20 @29548 has 12 MA's), (34, 29659), (42, 29764), (43, 29767),

Gene: Artu_67 Start: 27608, Stop: 27892, Start Num: 20
Candidate Starts for Artu_67:
(5, 27464), (16, 27590), (19, 27602), (Start: 20 @27608 has 12 MA's), (52, 27887),

Gene: Atuin_69 Start: 30721, Stop: 31002, Start Num: 20
Candidate Starts for Atuin_69:
(Start: 20 @30721 has 12 MA's), (31, 30805),

Gene: Big4_70 Start: 28857, Stop: 29132, Start Num: 22
Candidate Starts for Big4_70:
(19, 28842), (Start: 22 @28857 has 2 MA's), (24, 28878), (37, 29007), (42, 29064), (43, 29067),

Gene: Bloom_79 Start: 33362, Stop: 33646, Start Num: 20
Candidate Starts for Bloom_79:
(3, 33203), (4, 33209), (6, 33221), (7, 33224), (8, 33236), (9, 33242), (10, 33245), (12, 33287), (19, 33356), (Start: 20 @33362 has 12 MA's), (23, 33380), (26, 33410), (28, 33422), (29, 33425), (35, 33491), (52, 33641),

Gene: BooTeria_71 Start: 28063, Stop: 28347, Start Num: 20
Candidate Starts for BooTeria_71:
(5, 27919), (16, 28045), (19, 28057), (Start: 20 @28063 has 12 MA's), (52, 28342),

Gene: Cece_65 Start: 27218, Stop: 27502, Start Num: 20
Candidate Starts for Cece_65:
(19, 27212), (Start: 20 @27218 has 12 MA's), (30, 27296), (42, 27434), (43, 27437), (46, 27449),

Gene: Chilliams_72 Start: 33749, Stop: 34030, Start Num: 20
Candidate Starts for Chilliams_72:
(Start: 20 @33749 has 12 MA's), (29, 33812), (31, 33836), (40, 33926), (52, 34025),

Gene: Dodo_81 Start: 29870, Stop: 30154, Start Num: 20
Candidate Starts for Dodo_81:

(1, 29609), (14, 29813), (17, 29849), (Start: 20 @29870 has 12 MA's), (34, 29981), (42, 30086), (43, 30089),

Gene: DunneganBoMo_64 Start: 27488, Stop: 27772, Start Num: 20
Candidate Starts for DunneganBoMo_64:
(5, 27344), (16, 27470), (19, 27482), (Start: 20 @27488 has 12 MA's), (52, 27767),

Gene: Ellewin_66 Start: 27215, Stop: 27499, Start Num: 20
Candidate Starts for Ellewin_66:
(5, 27071), (16, 27197), (19, 27209), (Start: 20 @27215 has 12 MA's), (52, 27494),

Gene: Emmetator_67 Start: 28235, Stop: 28519, Start Num: 20
Candidate Starts for Emmetator_67:
(5, 28091), (16, 28217), (19, 28229), (Start: 20 @28235 has 12 MA's), (52, 28514),

Gene: Erasmago_74 Start: 28535, Stop: 28819, Start Num: 20
Candidate Starts for Erasmago_74:
(19, 28529), (Start: 20 @28535 has 12 MA's), (Start: 22 @28544 has 2 MA's), (34, 28646), (37, 28694), (39, 28712), (42, 28751), (43, 28754), (51, 28799),

Gene: FloraSnap32_74 Start: 31817, Stop: 32101, Start Num: 20
Candidate Starts for FloraSnap32_74:
(3, 31658), (4, 31664), (6, 31676), (7, 31679), (8, 31691), (9, 31697), (10, 31700), (11, 31715), (12, 31742), (19, 31811), (Start: 20 @31817 has 12 MA's), (26, 31865), (27, 31874), (28, 31877), (29, 31880), (35, 31946), (52, 32096),

Gene: FrostedClock_78 Start: 32850, Stop: 33134, Start Num: 20
Candidate Starts for FrostedClock_78:
(3, 32691), (4, 32697), (6, 32709), (7, 32712), (8, 32724), (9, 32730), (10, 32733), (12, 32775), (19, 32844), (Start: 20 @32850 has 12 MA's), (23, 32868), (26, 32898), (28, 32910), (29, 32913), (35, 32979), (52, 33129),

Gene: GoldenEssence_61 Start: 27155, Stop: 27439, Start Num: 20
Candidate Starts for GoldenEssence_61:
(3, 26996), (4, 27002), (6, 27014), (7, 27017), (8, 27029), (9, 27035), (10, 27038), (Start: 20 @27155 has 12 MA's), (26, 27203), (29, 27218), (35, 27284), (52, 27434),

Gene: KSunshine22_69 Start: 28755, Stop: 29039, Start Num: 20
Candidate Starts for KSunshine22_69:
(5, 28611), (16, 28737), (19, 28749), (Start: 20 @28755 has 12 MA's), (52, 29034),

Gene: Laure_77 Start: 33462, Stop: 33746, Start Num: 20
Candidate Starts for Laure_77:
(13, 33405), (Start: 20 @33462 has 12 MA's), (25, 33495), (26, 33510), (29, 33525), (39, 33639),

Gene: LeoJr_74 Start: 30861, Stop: 31142, Start Num: 20
Candidate Starts for LeoJr_74:
(Start: 20 @30861 has 12 MA's), (31, 30945), (41, 31050),

Gene: Lilbeanie_12 Start: 4954, Stop: 5247, Start Num: 21
Candidate Starts for Lilbeanie_12:
(Start: 21 @4954 has 1 MA's), (28, 5011), (33, 5053), (36, 5092),

Gene: Mimi_75 Start: 32709, Stop: 32993, Start Num: 20
Candidate Starts for Mimi_75:
(3, 32550), (4, 32556), (6, 32568), (7, 32571), (8, 32583), (9, 32589), (10, 32592), (12, 32634), (19, 32703), (Start: 20 @32709 has 12 MA's), (23, 32727), (26, 32757), (28, 32769), (29, 32772), (35, 32838), (52, 32988),

Gene: Panchaali_72 Start: 28341, Stop: 28625, Start Num: 20
Candidate Starts for Panchaali_72:
(19, 28335), (Start: 20 @28341 has 12 MA's), (52, 28620),

Gene: Patbob_75 Start: 33002, Stop: 33286, Start Num: 20
Candidate Starts for Patbob_75:
(3, 32843), (4, 32849), (6, 32861), (7, 32864), (8, 32876), (9, 32882), (10, 32885), (11, 32900), (12, 32927), (19, 32996), (Start: 20 @33002 has 12 MA's), (26, 33050), (27, 33059), (28, 33062), (29, 33065), (35, 33131), (52, 33281),

Gene: PauloDiaboli_81 Start: 28905, Stop: 29189, Start Num: 20
Candidate Starts for PauloDiaboli_81:
(1, 28644), (14, 28848), (17, 28884), (Start: 20 @28905 has 12 MA's), (34, 29016), (42, 29121), (43, 29124),

Gene: Phrampa_69 Start: 30028, Stop: 30312, Start Num: 20
Candidate Starts for Phrampa_69:
(Start: 20 @30028 has 12 MA's), (26, 30076), (29, 30091), (35, 30157),

Gene: Pine5_09 Start: 5622, Stop: 5945, Start Num: 18
Candidate Starts for Pine5_09:
(2, 5445), (18, 5622), (37, 5793), (44, 5859), (46, 5871), (48, 5880), (50, 5892),

Gene: Pumpernickel_79 Start: 31092, Stop: 31376, Start Num: 20
Candidate Starts for Pumpernickel_79:
(11, 30990), (15, 31059), (Start: 20 @31092 has 12 MA's), (32, 31191), (35, 31221), (37, 31251), (41, 31284), (42, 31308), (43, 31311), (49, 31335),

Gene: Racecar_76 Start: 33362, Stop: 33646, Start Num: 20
Candidate Starts for Racecar_76:
(3, 33203), (4, 33209), (6, 33221), (7, 33224), (8, 33236), (9, 33242), (10, 33245), (12, 33287), (19, 33356), (Start: 20 @33362 has 12 MA's), (23, 33380), (26, 33410), (28, 33422), (29, 33425), (35, 33491), (52, 33641),

Gene: ReginaGlobina_74 Start: 31418, Stop: 31699, Start Num: 20
Candidate Starts for ReginaGlobina_74:
(Start: 20 @31418 has 12 MA's), (31, 31502), (41, 31607), (47, 31652),

Gene: Rockabye_77 Start: 34104, Stop: 34385, Start Num: 20
Candidate Starts for Rockabye_77:
(Start: 20 @34104 has 12 MA's), (26, 34152), (28, 34164), (29, 34167), (31, 34191), (45, 34326), (52, 34380),

Gene: SJReid_78 Start: 34582, Stop: 34863, Start Num: 20
Candidate Starts for SJReid_78:
(Start: 20 @34582 has 12 MA's), (36, 34720), (38, 34750), (39, 34756),

Gene: Stewart25555_65 Start: 27748, Stop: 28032, Start Num: 20
Candidate Starts for Stewart25555_65:
(19, 27742), (Start: 20 @27748 has 12 MA's), (52, 28027),

Gene: Talia1610_75 Start: 32727, Stop: 33011, Start Num: 20
Candidate Starts for Talia1610_75:
(3, 32568), (4, 32574), (6, 32586), (7, 32589), (8, 32601), (9, 32607), (10, 32610), (12, 32652), (19, 32721), (Start: 20 @32727 has 12 MA's), (23, 32745), (26, 32775), (28, 32787), (29, 32790), (35, 32856), (52, 33006),

Gene: WaddleDee_62 Start: 27340, Stop: 27624, Start Num: 20
Candidate Starts for WaddleDee_62:
(5, 27196), (16, 27322), (19, 27334), (Start: 20 @27340 has 12 MA's), (52, 27619),

Gene: Zooman_66 Start: 27525, Stop: 27800, Start Num: 22
Candidate Starts for Zooman_66:
(19, 27510), (Start: 22 @27525 has 2 MA's), (24, 27546), (37, 27675), (42, 27732), (43, 27735),