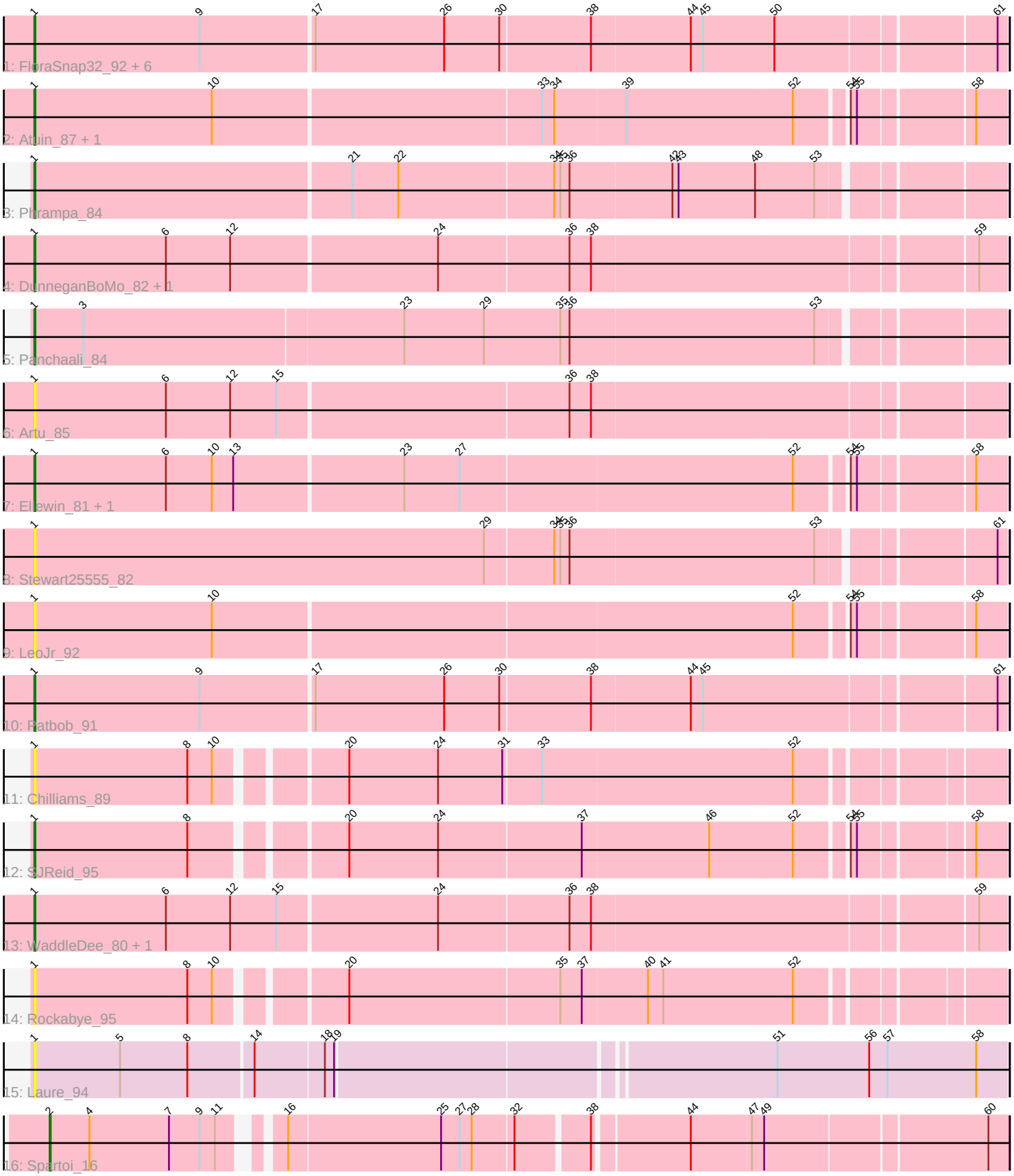
Pham 306767


1: FloraSnap32_92 + 6
2: Atuin_87 + 1
3: Phrampa_84
4: DunneganBoMo_82 + 1
5: Panchaali_84
6: Artu_85
7: Ellewin_81 + 1
8: Stewart25555_82
9: LeoJr_92
10: Ratbob_91
11: Chilliams_89
12: SJReid_95
13: WaddleDee_80 + 1
14: Rockabye_95
15: Laure_94
16: Spartoi_16

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 306767 Report

This analysis was run 06/27/26 on database version 652.

Pham number 306767 has 26 members, 13 are drafts.

Phages represented in each track:
• Track 1 : FloraSnap32_92, GoldenEssence_78, Racecar_93, Talia1610_92, Mimi_92, Bloom_96, FrostedClock_94
• Track 2 : Atuin_87, ReginaGlobina_92
• Track 3 : Phrampa_84
• Track 4 : DunneganBoMo_82, BooTeria_89
• Track 5 : Panchaali_84
• Track 6 : Artu_85
• Track 7 : Ellewin_81, KSunshine22_87
• Track 8 : Stewart25555_82
• Track 9 : LeoJr_92
• Track 10 : Patbob_91
• Track 11 : Chilliams_89
• Track 12 : SJReid_95
• Track 13 : WaddleDee_80, Emmetator_85
• Track 14 : Rockabye_95
• Track 15 : Laure_94
• Track 16 : Spartoi_16

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

The start number called the most often in the published annotations is 1, it was called in 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Artu_85, Atuin_87, Bloom_96, BooTeria_89, Chilliams_89, DunneganBoMo_82, Ellewin_81, Emmetator_85, FloraSnap32_92, FrostedClock_94, GoldenEssence_78, KSunshine22_87, Laure_94, LeoJr_92, Mimi_92, Panchaali_84, Patbob_91, Phrampa_84, Racecar_93, ReginaGlobina_92, Rockabye_95, SJReid_95, Stewart25555_82, Talia1610_92, WaddleDee_80,

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

Genes that do not have the "Most Annotated" start:

• Spartoi_16,

Summary by start number:

Start 1:
• Found in 25 of 26 (96.2%) of genes in pham
• Manual Annotations of this start: 12 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_85 (FC), Atuin_87 (FC), Bloom_96 (FC), BooTeria_89 (FC), Chilliams_89 (FC), DunneganBoMo_82 (FC), Ellewin_81 (FC), Emmetator_85 (FC), FloraSnap32_92 (FC), FrostedClock_94 (FC), GoldenEssence_78 (FC), KSunshine22_87 (FC), Laure_94 (UNK), LeoJr_92 (FC), Mimi_92 (FC), Panchaali_84 (FC), Patbob_91 (FC), Phrampa_84 (FC), Racecar_93 (FC), ReginaGlobina_92 (FC), Rockabye_95 (FC), SJReid_95 (FC), Stewart25555_82 (FC), Talia1610_92 (FC), WaddleDee_80 (FC),

Start 2:
• Found in 1 of 26 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Spartoi_16 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: UNK, singleton, FC,

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

Gene Information:

Gene: Artu_85 Start: 58172, Stop: 59098, Start Num: 1
Candidate Starts for Artu_85:
(Start: 1 @58172 has 12 MA's), (6, 58301), (12, 58364), (15, 58409), (36, 58688), (38, 58709),

Gene: Atuin_87 Start: 60814, Stop: 61731, Start Num: 1
Candidate Starts for Atuin_87:
(Start: 1 @60814 has 12 MA's), (10, 60988), (33, 61303), (34, 61315), (39, 61384), (52, 61546), (54, 61591), (55, 61597), (58, 61702),

Gene: Bloom_96 Start: 61677, Stop: 62603, Start Num: 1
Candidate Starts for Bloom_96:
(Start: 1 @61677 has 12 MA's), (9, 61839), (17, 61947), (26, 62073), (30, 62127), (38, 62214), (44, 62310), (45, 62322), (50, 62391), (61, 62595),

Gene: BooTeria_89 Start: 58240, Stop: 59166, Start Num: 1
Candidate Starts for BooTeria_89:
(Start: 1 @58240 has 12 MA's), (6, 58369), (12, 58432), (24, 58630), (36, 58756), (38, 58777), (59, 59140),

Gene: Chilliams_89 Start: 62104, Stop: 62997, Start Num: 1
Candidate Starts for Chilliams_89:
(Start: 1 @62104 has 12 MA's), (8, 62254), (10, 62278), (20, 62386), (24, 62473), (31, 62536), (33, 62572), (52, 62815),

Gene: DunneganBoMo_82 Start: 57671, Stop: 58597, Start Num: 1
Candidate Starts for DunneganBoMo_82:
(Start: 1 @57671 has 12 MA's), (6, 57800), (12, 57863), (24, 58061), (36, 58187), (38, 58208), (59, 58571),

Gene: Ellewin_81 Start: 57260, Stop: 58177, Start Num: 1
Candidate Starts for Ellewin_81:
(Start: 1 @57260 has 12 MA's), (6, 57389), (10, 57434), (13, 57455), (23, 57617), (27, 57671), (52, 57992), (54, 58037), (55, 58043), (58, 58148),

Gene: Emmetator_85 Start: 58505, Stop: 59431, Start Num: 1
Candidate Starts for Emmetator_85:
(Start: 1 @58505 has 12 MA's), (6, 58634), (12, 58697), (15, 58742), (24, 58895), (36, 59021), (38, 59042), (59, 59405),

Gene: FloraSnap32_92 Start: 60717, Stop: 61643, Start Num: 1
Candidate Starts for FloraSnap32_92:
(Start: 1 @60717 has 12 MA's), (9, 60879), (17, 60987), (26, 61113), (30, 61167), (38, 61254), (44, 61350), (45, 61362), (50, 61431), (61, 61635),

Gene: FrostedClock_94 Start: 61165, Stop: 62091, Start Num: 1
Candidate Starts for FrostedClock_94:
(Start: 1 @61165 has 12 MA's), (9, 61327), (17, 61435), (26, 61561), (30, 61615), (38, 61702), (44, 61798), (45, 61810), (50, 61879), (61, 62083),

Gene: GoldenEssence_78 Start: 55473, Stop: 56399, Start Num: 1
Candidate Starts for GoldenEssence_78:
(Start: 1 @55473 has 12 MA's), (9, 55635), (17, 55743), (26, 55869), (30, 55923), (38, 56010), (44, 56106), (45, 56118), (50, 56187), (61, 56391),

Gene: KSunshine22_87 Start: 58893, Stop: 59810, Start Num: 1
Candidate Starts for KSunshine22_87:
(Start: 1 @58893 has 12 MA's), (6, 59022), (10, 59067), (13, 59088), (23, 59250), (27, 59304), (52, 59625), (54, 59670), (55, 59676), (58, 59781),

Gene: Laure_94 Start: 60082, Stop: 60999, Start Num: 1
Candidate Starts for Laure_94:
(Start: 1 @60082 has 12 MA's), (5, 60166), (8, 60232), (14, 60292), (18, 60358), (19, 60367), (51, 60775), (56, 60865), (57, 60883), (58, 60970),

Gene: LeoJr_92 Start: 60942, Stop: 61859, Start Num: 1
Candidate Starts for LeoJr_92:
(Start: 1 @60942 has 12 MA's), (10, 61116), (52, 61674), (54, 61719), (55, 61725), (58, 61830),

Gene: Mimi_92 Start: 61024, Stop: 61950, Start Num: 1
Candidate Starts for Mimi_92:
(Start: 1 @61024 has 12 MA's), (9, 61186), (17, 61294), (26, 61420), (30, 61474), (38, 61561), (44, 61657), (45, 61669), (50, 61738), (61, 61942),

Gene: Panchaali_84 Start: 58770, Stop: 59690, Start Num: 1
Candidate Starts for Panchaali_84:
(Start: 1 @58770 has 12 MA's), (3, 58818), (23, 59127), (29, 59205), (35, 59280), (36, 59289), (53, 59526),

Gene: Patbob_91 Start: 61896, Stop: 62822, Start Num: 1
Candidate Starts for Patbob_91:
(Start: 1 @61896 has 12 MA's), (9, 62058), (17, 62166), (26, 62292), (30, 62346), (38, 62433), (44, 62529), (45, 62541), (61, 62814),

Gene: Phrampa_84 Start: 59210, Stop: 60127, Start Num: 1
Candidate Starts for Phrampa_84:
(Start: 1 @59210 has 12 MA's), (21, 59516), (22, 59561), (34, 59711), (35, 59717), (36, 59726), (42, 59825), (43, 59831), (48, 59906), (53, 59963),

Gene: Racecar_93 Start: 61677, Stop: 62603, Start Num: 1
Candidate Starts for Racecar_93:
(Start: 1 @61677 has 12 MA's), (9, 61839), (17, 61947), (26, 62073), (30, 62127), (38, 62214), (44, 62310), (45, 62322), (50, 62391), (61, 62595),

Gene: ReginaGlobina_92 Start: 61695, Stop: 62612, Start Num: 1
Candidate Starts for ReginaGlobina_92:
(Start: 1 @61695 has 12 MA's), (10, 61869), (33, 62184), (34, 62196), (39, 62265), (52, 62427), (54, 62472), (55, 62478), (58, 62583),

Gene: Rockabye_95 Start: 62463, Stop: 63356, Start Num: 1
Candidate Starts for Rockabye_95:
(Start: 1 @62463 has 12 MA's), (8, 62613), (10, 62637), (20, 62745), (35, 62949), (37, 62970), (40, 63033), (41, 63048), (52, 63174),

Gene: SJReid_95 Start: 61516, Stop: 62409, Start Num: 1
Candidate Starts for SJReid_95:
(Start: 1 @61516 has 12 MA's), (8, 61666), (20, 61798), (24, 61885), (37, 62023), (46, 62146), (52, 62227), (54, 62272), (55, 62278), (58, 62380),

Gene: Spartoi_16 Start: 12868, Stop: 13737, Start Num: 2
Candidate Starts for Spartoi_16:
(Start: 2 @12868 has 1 MA's), (4, 12907), (7, 12985), (9, 13015), (11, 13030), (16, 13072), (25, 13219), (27, 13237), (28, 13249), (32, 13288), (38, 13354), (44, 13441), (47, 13498), (49, 13510), (60, 13717),

Gene: Stewart25555_82 Start: 58194, Stop: 59117, Start Num: 1
Candidate Starts for Stewart25555_82:
(Start: 1 @58194 has 12 MA's), (29, 58635), (34, 58701), (35, 58707), (36, 58716), (53, 58953), (61, 59109),

Gene: Talia1610_92 Start: 61042, Stop: 61968, Start Num: 1
Candidate Starts for Talia1610_92:
(Start: 1 @61042 has 12 MA's), (9, 61204), (17, 61312), (26, 61438), (30, 61492), (38, 61579), (44, 61675), (45, 61687), (50, 61756), (61, 61960),

Gene: WaddleDee_80 Start: 57526, Stop: 58452, Start Num: 1
Candidate Starts for WaddleDee_80:

(Start: 1 @57526 has 12 MA's), (6, 57655), (12, 57718), (15, 57763), (24, 57916), (36, 58042), (38, 58063), (59, 58426),