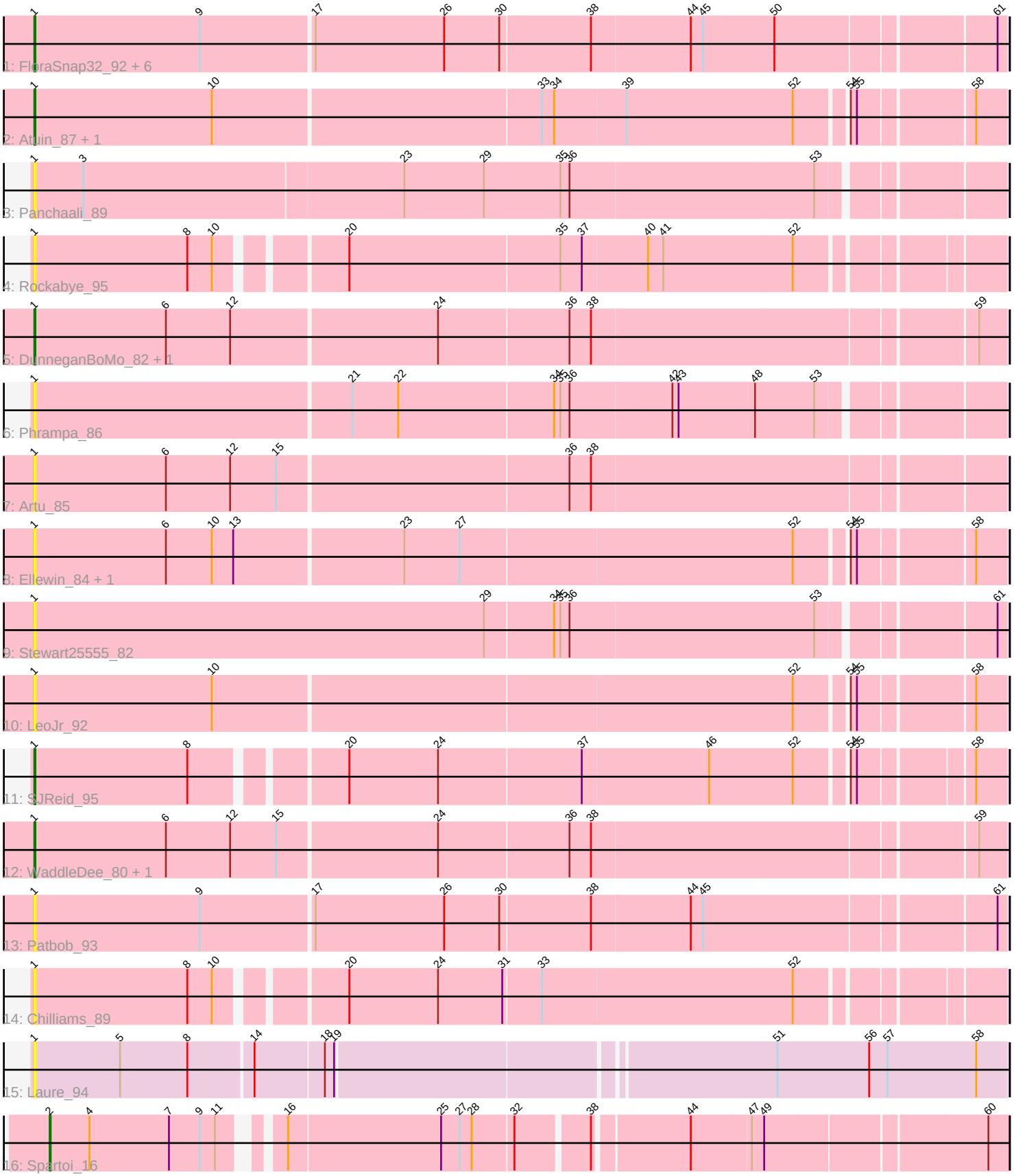
Pham 272077


1: FloraSnap32_92 + 6
2: Atuin_87 + 1
3: Panchaali_89
4: Rockabye_95
5: DunneganBoMo_82 + 1
6: Phrampa_86
7: Artu_85
8: Ellewin_84 + 1
9: Stewart25555_82
10: LeoJr_92
11: SJReid_95
12: WaddleDee_80 + 1
13: Patbob_93
14: Chilliams_89
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 272077 Report

This analysis was run 02/07/26 on database version 634.

Pham number 272077 has 26 members, 17 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 : Panchaali_89
• Track 4 : Rockabye_95
• Track 5 : DunneganBoMo_82, BooTeria_89
• Track 6 : Phrampa_86
• Track 7 : Artu_85
• Track 8 : Ellewin_84, KSunshine22_87
• Track 9 : Stewart25555_82
• Track 10 : LeoJr_92
• Track 11 : SJReid_95
• Track 12 : WaddleDee_80, Emmetator_85
• Track 13 : Patbob_93
• Track 14 : Chilliams_89
• 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 8 of the 9 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_84, Emmetator_85, FloraSnap32_92, FrostedClock_94, GoldenEssence_78, KSunshine22_87, Laure_94, LeoJr_92, Mimi_92, Panchaali_89, Patbob_93, Phrampa_86, 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: 8 of 9
• 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_84 (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_89 (FC), Patbob_93 (FC), Phrampa_86 (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 9
• 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 8 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 8 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 8 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 8 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 8 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 8 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 8 MA's), (6, 57800), (12, 57863), (24, 58061), (36, 58187), (38, 58208), (59, 58571),

Gene: Ellewin_84 Start: 57260, Stop: 58177, Start Num: 1
Candidate Starts for Ellewin_84:
(Start: 1 @57260 has 8 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 8 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 8 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 8 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 8 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 8 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 8 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 8 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 8 MA's), (9, 61186), (17, 61294), (26, 61420), (30, 61474), (38, 61561), (44, 61657), (45, 61669), (50, 61738), (61, 61942),

Gene: Panchaali_89 Start: 58770, Stop: 59690, Start Num: 1
Candidate Starts for Panchaali_89:
(Start: 1 @58770 has 8 MA's), (3, 58818), (23, 59127), (29, 59205), (35, 59280), (36, 59289), (53, 59526),

Gene: Patbob_93 Start: 61896, Stop: 62822, Start Num: 1
Candidate Starts for Patbob_93:
(Start: 1 @61896 has 8 MA's), (9, 62058), (17, 62166), (26, 62292), (30, 62346), (38, 62433), (44, 62529), (45, 62541), (61, 62814),

Gene: Phrampa_86 Start: 59210, Stop: 60127, Start Num: 1
Candidate Starts for Phrampa_86:
(Start: 1 @59210 has 8 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 8 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 8 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 8 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 8 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 8 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 8 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 8 MA's), (6, 57655), (12, 57718), (15, 57763), (24, 57916), (36, 58042), (38, 58063), (59, 58426),