Pham 346096


1: Rockabye_50
2: Phrampa_43
3: GoldenEssence_37 + 5
4: Artu_40
5: Stewart25555_41
6: LeoJr_45
7: Chilliams_50
8: DunneganBoMo_40 + 1
9: Panchaali_42
10: Emmetator_41 + 1
11: Patbob_49
12: SJReid_53
13: kSunshine22_44
14: ReginaGlobina_45 + 1
15: Bloom_58
16: Billewin_39
17: Laure_53

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 346096 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346096 has 25 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Rockabye_50
• Track 2 : Phrampa_43
• Track 3 : GoldenEssence_37, Racecar_54, Talia1610_53, Mimi_53, FrostedClock_52, FloraSnap32_47
• Track 4 : Artu_40
• Track 5 : Stewart25555_41
• Track 6 : LeoJr_45
• Track 7 : Chilliams_50
• Track 8 : DunneganBoMo_40, BooTeria_41
• Track 9 : Panchaali_42
• Track 10 : Emmetator_41, WaddleDee_39
• Track 11 : Patbob_49
• Track 12 : SJReid_53
• Track 13 : KSunshine22_44
• Track 14 : ReginaGlobina_45, Atuin_42
• Track 15 : Bloom_58
• Track 16 : Ellewin_39
• Track 17 : Laure_53

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• FloraSnap32_47, FrostedClock_52, GoldenEssence_37, Mimi_53, Patbob_49, Phrampa_43, Racecar_54, Talia1610_53,

Genes that have the "Most Annotated" start but do not call it:
• Bloom_58,

Genes that do not have the "Most Annotated" start:
• Artu_40, Atuin_42, BooTeria_41, Chilliams_50, DunneganBoMo_40, Ellewin_39, Emmetator_41, KSunshine22_44, Laure_53, LeoJr_45, Panchaali_42,

ReginaGlobina_45, Rockabye_50, SJReid_53, Stewart25555_41, WaddleDee_39,

Summary by start number:

Start 1:
• Found in 12 of 25 (48.0%) of genes in pham
• Manual Annotations of this start: 6 of 17
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Artu_40 (FC), Atuin_42 (FC), BooTeria_41 (FC), DunneganBoMo_40 (FC), Ellewin_39 (FC), LeoJr_45 (FC), Panchaali_42 (FC), ReginaGlobina_45 (FC), Stewart25555_41 (FC),

Start 2:
• Found in 2 of 25 (8.0%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Chilliams_50 (FC),

Start 3:
• Found in 4 of 25 (16.0%) of genes in pham
• Manual Annotations of this start: 2 of 17
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Laure_53 (UNK), Rockabye_50 (FC), SJReid_53 (FC),

Start 4:
• Found in 9 of 25 (36.0%) of genes in pham
• Manual Annotations of this start: 8 of 17
• Called 88.9% of time when present
• Phage (with cluster) where this start called: FloraSnap32_47 (FC), FrostedClock_52 (FC), GoldenEssence_37 (FC), Mimi_53 (FC), Patbob_49 (FC), Phrampa_43 (FC), Racecar_54 (FC), Talia1610_53 (FC),

Start 10:
• Found in 20 of 25 (80.0%) of genes in pham
• Manual Annotations of this start: 1 of 17
• Called 15.0% of time when present
• Phage (with cluster) where this start called: Emmetator_41 (FC), KSunshine22_44 (FC), WaddleDee_39 (FC),

Start 20:
• Found in 10 of 25 (40.0%) of genes in pham
• No Manual Annotations of this start.
• Called 10.0% of time when present
• Phage (with cluster) where this start called: Bloom_58 (FC),

Summary by clusters:

There are 2 clusters represented in this pham: UNK, FC,

Info for manual annotations of cluster FC:
•Start number 1 was manually annotated 6 times for cluster FC.
•Start number 3 was manually annotated 2 times for cluster FC.

•Start number 4 was manually annotated 8 times for cluster FC.
•Start number 10 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Artu_40 Start: 16745, Stop: 17668, Start Num: 1
Candidate Starts for Artu_40:
(Start: 1 @16745 has 6 MA's), (Start: 10 @16814 has 1 MA's), (11, 16832), (12, 16835), (24, 16892), (37, 17246),

Gene: Atuin_42 Start: 18782, Stop: 19714, Start Num: 1
Candidate Starts for Atuin_42:
(Start: 1 @18782 has 6 MA's), (5, 18818), (13, 18878), (19, 18899), (24, 18929), (29, 19016), (53, 19673), (54, 19703),

Gene: Bloom_58 Start: 23462, Stop: 24265, Start Num: 20
Candidate Starts for Bloom_58:
(Start: 4 @23363 has 8 MA's), (Start: 10 @23408 has 1 MA's), (12, 23429), (17, 23447), (19, 23456), (20, 23462), (23, 23477), (31, 23612), (44, 24035), (48, 24119), (52, 24176),

Gene: BooTeria_41 Start: 17339, Stop: 18262, Start Num: 1
Candidate Starts for BooTeria_41:
(Start: 1 @17339 has 6 MA's), (Start: 10 @17408 has 1 MA's), (11, 17426), (24, 17486), (37, 17840),

Gene: Chilliams_50 Start: 22139, Stop: 23032, Start Num: 2
Candidate Starts for Chilliams_50:
(2, 22139), (Start: 3 @22142 has 2 MA's), (5, 22172), (Start: 10 @22205 has 1 MA's), (13, 22232), (15, 22241), (18, 22247), (27, 22346), (49, 22922),

Gene: DunneganBoMo_40 Start: 17328, Stop: 18251, Start Num: 1
Candidate Starts for DunneganBoMo_40:
(Start: 1 @17328 has 6 MA's), (Start: 10 @17397 has 1 MA's), (11, 17415), (24, 17475), (37, 17829),

Gene: Ellewin_39 Start: 16887, Stop: 17819, Start Num: 1
Candidate Starts for Ellewin_39:
(Start: 1 @16887 has 6 MA's), (Start: 10 @16956 has 1 MA's), (11, 16974), (24, 17034), (37, 17388),

Gene: Emmetator_41 Start: 17307, Stop: 18161, Start Num: 10
Candidate Starts for Emmetator_41:
(Start: 1 @17238 has 6 MA's), (Start: 10 @17307 has 1 MA's), (11, 17325), (24, 17385), (37, 17739),

Gene: FloraSnap32_47 Start: 20663, Stop: 21565, Start Num: 4
Candidate Starts for FloraSnap32_47:
(Start: 4 @20663 has 8 MA's), (Start: 10 @20708 has 1 MA's), (12, 20729), (17, 20747), (19, 20756), (20, 20762), (23, 20777), (31, 20912), (44, 21335), (48, 21419), (52, 21476),

Gene: FrostedClock_52 Start: 22626, Stop: 23528, Start Num: 4
Candidate Starts for FrostedClock_52:
(Start: 4 @22626 has 8 MA's), (Start: 10 @22671 has 1 MA's), (12, 22692), (17, 22710), (19, 22719), (20, 22725), (23, 22740), (31, 22875), (44, 23298), (48, 23382), (52, 23439),

Gene: GoldenEssence_37 Start: 16220, Stop: 17122, Start Num: 4
Candidate Starts for GoldenEssence_37:
(Start: 4 @16220 has 8 MA's), (Start: 10 @16265 has 1 MA's), (12, 16286), (17, 16304), (19, 16313), (20, 16319), (23, 16334), (31, 16469), (44, 16892), (48, 16976), (52, 17033),

Gene: KSunshine22_44 Start: 18009, Stop: 18854, Start Num: 10
Candidate Starts for KSunshine22_44:
(Start: 1 @17940 has 6 MA's), (Start: 10 @18009 has 1 MA's), (11, 18027), (24, 18087), (37, 18432),

Gene: Laure_53 Start: 22472, Stop: 23368, Start Num: 3
Candidate Starts for Laure_53:
(Start: 3 @22472 has 2 MA's), (7, 22514), (9, 22526), (Start: 10 @22535 has 1 MA's), (14, 22565), (16, 22574), (21, 22598), (22, 22601), (25, 22616), (26, 22637), (28, 22694), (30, 22703), (32, 22739), (33, 22790), (34, 22829), (39, 22973), (40, 22991), (41, 22994), (42, 23108), (43, 23141), (45, 23156), (47, 23225), (50, 23270), (51, 23276),

Gene: LeoJr_45 Start: 18948, Stop: 19880, Start Num: 1
Candidate Starts for LeoJr_45:
(Start: 1 @18948 has 6 MA's), (5, 18984), (13, 19044), (19, 19065), (24, 19095), (29, 19182), (53, 19839),

Gene: Mimi_53 Start: 22476, Stop: 23387, Start Num: 4
Candidate Starts for Mimi_53:
(Start: 4 @22476 has 8 MA's), (Start: 10 @22521 has 1 MA's), (12, 22542), (17, 22560), (19, 22569), (20, 22575), (23, 22590), (31, 22725), (44, 23157), (48, 23241), (52, 23298),

Gene: Panchaali_42 Start: 16946, Stop: 17857, Start Num: 1
Candidate Starts for Panchaali_42:
(Start: 1 @16946 has 6 MA's), (5, 16982), (19, 17063), (24, 17093), (29, 17180), (54, 17849),

Gene: Patbob_49 Start: 21848, Stop: 22750, Start Num: 4
Candidate Starts for Patbob_49:
(Start: 4 @21848 has 8 MA's), (Start: 10 @21893 has 1 MA's), (12, 21914), (17, 21932), (19, 21941), (20, 21947), (23, 21962), (44, 22520), (48, 22604), (52, 22661),

Gene: Phrampa_43 Start: 19118, Stop: 20029, Start Num: 4
Candidate Starts for Phrampa_43:
(Start: 4 @19118 has 8 MA's), (Start: 10 @19163 has 1 MA's), (12, 19184), (17, 19202), (20, 19217), (23, 19232), (38, 19637), (44, 19799),

Gene: Racecar_54 Start: 23129, Stop: 24040, Start Num: 4
Candidate Starts for Racecar_54:
(Start: 4 @23129 has 8 MA's), (Start: 10 @23174 has 1 MA's), (12, 23195), (17, 23213), (19, 23222), (20, 23228), (23, 23243), (31, 23378), (44, 23810), (48, 23894), (52, 23951),

Gene: ReginaGlobina_45 Start: 19145, Stop: 20077, Start Num: 1
Candidate Starts for ReginaGlobina_45:
(Start: 1 @19145 has 6 MA's), (5, 19181), (13, 19241), (19, 19262), (24, 19292), (29, 19379), (53, 20036), (54, 20066),

Gene: Rockabye_50 Start: 22452, Stop: 23333, Start Num: 3
Candidate Starts for Rockabye_50:

(2, 22449), (Start: 3 @22452 has 2 MA's), (Start: 10 @22515 has 1 MA's), (13, 22542), (18, 22557), (27, 22656), (36, 22848), (38, 22941), (49, 23223),

Gene: SJReid_53 Start: 23125, Stop: 24003, Start Num: 3
Candidate Starts for SJReid_53:
(Start: 3 @23125 has 2 MA's), (6, 23161), (8, 23176), (Start: 10 @23188 has 1 MA's), (14, 23218), (15, 23224), (35, 23539), (46, 23830), (47, 23881), (49, 23899),

Gene: Stewart25555_41 Start: 17297, Stop: 18217, Start Num: 1
Candidate Starts for Stewart25555_41:
(Start: 1 @17297 has 6 MA's), (20, 17420), (23, 17435), (24, 17444), (43, 18014), (48, 18107), (54, 18209),

Gene: Talia1610_53 Start: 22494, Stop: 23405, Start Num: 4
Candidate Starts for Talia1610_53:
(Start: 4 @22494 has 8 MA's), (Start: 10 @22539 has 1 MA's), (12, 22560), (17, 22578), (19, 22587), (20, 22593), (23, 22608), (31, 22743), (44, 23175), (48, 23259), (52, 23316),

Gene: WaddleDee_39 Start: 17138, Stop: 17992, Start Num: 10
Candidate Starts for WaddleDee_39:
(Start: 1 @17069 has 6 MA's), (Start: 10 @17138 has 1 MA's), (11, 17156), (24, 17216), (37, 17570),