

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 309100 Report

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

Pham number 309100 has 27 members, 14 are drafts.

Phages represented in each track:

- Track 1 : FlyingTortilla_1, UBSmoodge_1, ScarletRaider_1
- Track 2 : Toneprano_1, Twin_1, Argena_1, Amoonguss_1
- Track 3 : GMA6_108
- Track 4 : Aloki_1, EmoNemo_1, Chidiebere_1, Gray_1, Kabocha_1, Schomber_1, Hanem_1
- Track 5 : ChisanaKitsune_1
- Track 6 : MintFritos_1
- Track 7 : Oogie_1, Lenoshki_1, Beted_1
- Track 8 : Pakusa_1
- Track 9 : Mikronejon_1
- Track 10 : Farrylious_1
- Track 11 : FruityLoops_1
- Track 12 : DalanDe_2
- Track 13 : Thales_3
- Track 14 : Cantare_129

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 12 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloki_1, Amoonguss_1, Argena_1, Beted_1, Chidiebere_1, ChisanaKitsune_1, DalanDe_2, EmoNemo_1, Farrylious_1, FlyingTortilla_1, FruityLoops_1, GMA6_108, Gray_1, Hanem_1, Kabocha_1, Lenoshki_1, Mikronejon_1, MintFritos_1, Oogie_1, Pakusa_1, ScarletRaider_1, Schomber_1, Thales_3, Toneprano_1, Twin_1, UBSmoodge_1,

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

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

- Cantare_129,

Summary by start number:

Start 1:

- Found in 1 of 27 (3.7%) 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: Cantare_129 (singleton),

Start 4:

- Found in 26 of 27 (96.3%) 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: Aloki_1 (DQ), Amoonguss_1 (DQ), Argena_1 (DQ), Beted_1 (DQ), Chidiebere_1 (DQ), ChisanaKitsune_1 (DQ), DalanDe_2 (DQ), EmoNemo_1 (DQ), Farrylious_1 (DQ), FlyingTortilla_1 (DQ), FruityLoops_1 (DQ), GMA6_108 (DQ), Gray_1 (DQ), Hanem_1 (DQ), Kabocha_1 (DQ), Lenoshki_1 (DQ), Mikronejon_1 (DQ), MintFritos_1 (DQ), Oogie_1 (DQ), Pakusa_1 (DQ), ScarletRaider_1 (DQ), Schomber_1 (DQ), Thales_3 (DQ), Toneprano_1 (DQ), Twin_1 (DQ), UBSmoodge_1 (DQ),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DQ,

Info for manual annotations of cluster DQ:

- Start number 4 was manually annotated 12 times for cluster DQ.

Gene Information:

Gene: Aloki_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Aloki_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Amoonguss_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Amoonguss_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Argena_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Argena_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Beted_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Beted_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (34, 562), (35, 568), (37, 592), (38, 601), (39, 607), (41, 643), (43,

664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799), (61, 847),

Gene: Cantare_129 Start: 89045, Stop: 90001, Start Num: 1

Candidate Starts for Cantare_129:

(Start: 1 @89045 has 1 MA's), (3, 89123), (10, 89330), (11, 89354), (13, 89363), (16, 89438), (19, 89516), (20, 89522), (24, 89600), (28, 89660), (30, 89681), (32, 89705), (42, 89822), (47, 89867), (50, 89885), (53, 89906),

Gene: Chidiebere_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Chidiebere_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: ChisanaKitsune_1 Start: 1, Stop: 861, Start Num: 4

Candidate Starts for ChisanaKitsune_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (16, 265), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (34, 562), (35, 568), (37, 592), (38, 601), (39, 607), (43, 664), (44, 679), (46, 694), (54, 751), (55, 754), (58, 766), (59, 769), (60, 802), (61, 850),

Gene: DalanDe_2 Start: 842, Stop: 1654, Start Num: 4

Candidate Starts for DalanDe_2:

(Start: 4 @842 has 12 MA's), (14, 1100), (15, 1103), (17, 1118), (19, 1190), (22, 1211), (23, 1232), (27, 1319), (33, 1388), (37, 1445), (42, 1502), (43, 1514), (46, 1544), (48, 1556), (51, 1574),

Gene: EmoNemo_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for EmoNemo_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Farrylious_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Farrylious_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (41, 643), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799), (61, 847),

Gene: FlyingTortilla_1 Start: 1, Stop: 864, Start Num: 4

Candidate Starts for FlyingTortilla_1:

(Start: 4 @1 has 12 MA's), (6, 76), (12, 184), (13, 190), (19, 343), (20, 349), (23, 385), (31, 526), (34, 562), (35, 568), (36, 577), (38, 601), (41, 643), (43, 664), (48, 706), (54, 751), (56, 763), (57, 766), (60, 805), (61, 853),

Gene: FruityLoops_1 Start: 1, Stop: 864, Start Num: 4

Candidate Starts for FruityLoops_1:

(Start: 4 @1 has 12 MA's), (6, 76), (12, 184), (13, 190), (19, 343), (20, 349), (23, 385), (31, 526), (34, 562), (35, 568), (36, 577), (38, 601), (43, 664), (48, 706), (54, 751), (56, 763), (57, 766), (60, 805), (61, 853),

Gene: GMA6_108 Start: 80146, Stop: 81057, Start Num: 4

Candidate Starts for GMA6_108:

(2, 80101), (Start: 4 @80146 has 12 MA's), (13, 80353), (16, 80428), (19, 80506), (22, 80527), (23, 80548), (25, 80602), (29, 80659), (32, 80695), (38, 80770), (39, 80776), (40, 80788), (43, 80833), (45,

80851), (48, 80875), (49, 80884), (52, 80896), (62, 81037),

Gene: Gray_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Gray_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Hanem_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Hanem_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Kabocha_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Kabocha_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Lenoshki_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Lenoshki_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (34, 562), (35, 568), (37, 592), (38, 601), (39, 607), (41, 643), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799), (61, 847),

Gene: Mikronejon_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Mikronejon_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: MintFritos_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for MintFritos_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (41, 643), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Oogie_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Oogie_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (34, 562), (35, 568), (37, 592), (38, 601), (39, 607), (41, 643), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799), (61, 847),

Gene: Pakusa_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Pakusa_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (35, 568), (38, 601), (39, 607), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799), (61, 847),

Gene: ScarletRaider_1 Start: 1, Stop: 864, Start Num: 4

Candidate Starts for ScarletRaider_1:

(Start: 4 @1 has 12 MA's), (6, 76), (12, 184), (13, 190), (19, 343), (20, 349), (23, 385), (31, 526), (34, 562), (35, 568), (36, 577), (38, 601), (41, 643), (43, 664), (48, 706), (54, 751), (56, 763), (57, 766), (60, 805), (61, 853),

Gene: Schomber_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Schomber_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (26, 460), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Thales_3 Start: 1001, Stop: 1813, Start Num: 4

Candidate Starts for Thales_3:

(Start: 4 @1001 has 12 MA's), (14, 1259), (15, 1262), (17, 1277), (19, 1349), (22, 1370), (23, 1391), (27, 1478), (33, 1547), (40, 1628), (42, 1661), (43, 1673), (46, 1703), (48, 1715), (51, 1733),

Gene: Toneprano_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Toneprano_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: Twin_1 Start: 1, Stop: 858, Start Num: 4

Candidate Starts for Twin_1:

(Start: 4 @1 has 12 MA's), (5, 34), (6, 76), (7, 91), (8, 136), (9, 148), (12, 184), (13, 190), (18, 301), (19, 343), (20, 349), (21, 352), (23, 385), (31, 526), (34, 562), (35, 568), (38, 601), (39, 607), (42, 652), (43, 664), (44, 679), (46, 694), (54, 751), (58, 763), (59, 766), (60, 799),

Gene: UBSmoodge_1 Start: 1, Stop: 864, Start Num: 4

Candidate Starts for UBSmoodge_1:

(Start: 4 @1 has 12 MA's), (6, 76), (12, 184), (13, 190), (19, 343), (20, 349), (23, 385), (31, 526), (34, 562), (35, 568), (36, 577), (38, 601), (41, 643), (43, 664), (48, 706), (54, 751), (56, 763), (57, 766), (60, 805), (61, 853),