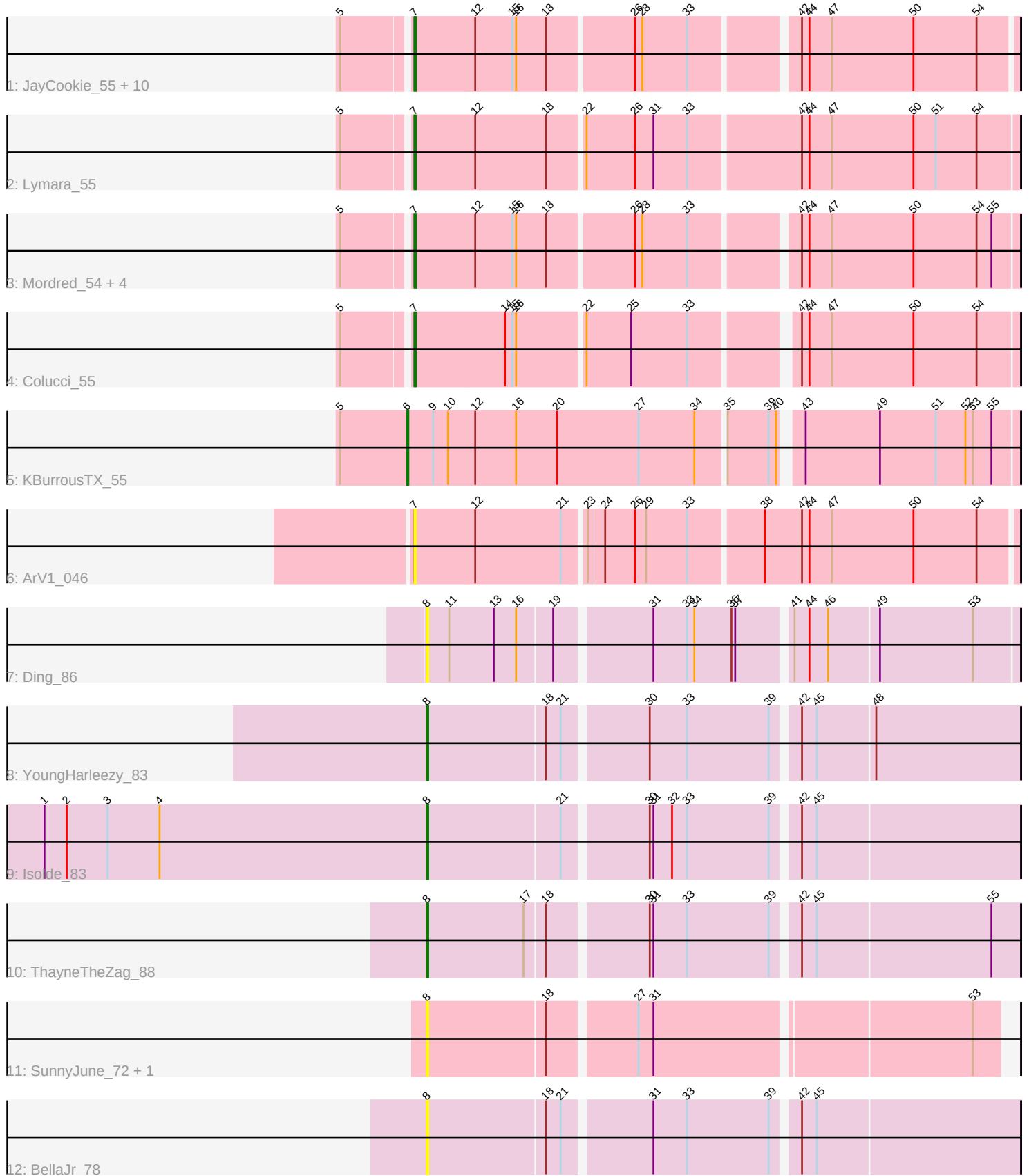


Pham 259367



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 259367 Report

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

Pham number 259367 has 27 members, 6 are drafts.

Phages represented in each track:

- Track 1 : JayCookie_55, Chubster_55, RosiePosie_54, PrincessTrina_54, EdgarPoe_54, Linus_54, Conboy_54, Kabreeze_54, Chocolat_54, Scavito_54, MoyaNatalis_54
- Track 2 : Lymara_55
- Track 3 : Mordred_54, Chipper1996_540, Tophat_54, HumptyDumpty_54, JaNo_54
- Track 4 : Colucci_55
- Track 5 : KBurrousTX_55
- Track 6 : ArV1_046
- Track 7 : Ding_86
- Track 8 : YoungHarleezy_83
- Track 9 : Isolde_83
- Track 10 : ThayneTheZag_88
- Track 11 : SunnyJune_72, Divya_71
- Track 12 : BellaJr_78

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

The start number called the most often in the published annotations is 7, it was called in 17 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArV1_046, Chipper1996_540, Chocolat_54, Chubster_55, Colucci_55, Conboy_54, EdgarPoe_54, HumptyDumpty_54, JaNo_54, JayCookie_55, Kabreeze_54, Linus_54, Lymara_55, Mordred_54, MoyaNatalis_54, PrincessTrina_54, RosiePosie_54, Scavito_54, Tophat_54,

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

-

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

- BellaJr_78, Ding_86, Divya_71, Isolde_83, KBurrousTX_55, SunnyJune_72, ThayneTheZag_88, YoungHarleezy_83,

Summary by start number:

Start 6:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_55 (AR),

Start 7:

- Found in 19 of 27 (70.4%) of genes in pham
- Manual Annotations of this start: 17 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_046 (AR), Chipper1996_540 (AR), Chocolat_54 (AR), Chubster_55 (AR), Colucci_55 (AR), Conboy_54 (AR), EdgarPoe_54 (AR), HumptyDumpty_54 (AR), JaNo_54 (AR), JayCookie_55 (AR), Kabreeze_54 (AR), Linus_54 (AR), Lymara_55 (AR), Mordred_54 (AR), MoyaNatalis_54 (AR), PrincessTrina_54 (AR), RosiePosie_54 (AR), Scavito_54 (AR), Tophat_54 (AR),

Start 8:

- Found in 7 of 27 (25.9%) of genes in pham
- Manual Annotations of this start: 3 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BellaJr_78 (FN), Ding_86 (AY), Divya_71 (FL), Isolde_83 (AY), SunnyJune_72 (FL), ThayneTheZag_88 (AY), YoungHarleezy_83 (AY),

Summary by clusters:

There are 4 clusters represented in this pham: AY, AR, FL, FN,

Info for manual annotations of cluster AR:

- Start number 6 was manually annotated 1 time for cluster AR.
- Start number 7 was manually annotated 17 times for cluster AR.

Info for manual annotations of cluster AY:

- Start number 8 was manually annotated 3 times for cluster AY.

Gene Information:

Gene: ArV1_046 Start: 40192, Stop: 40659, Start Num: 7

Candidate Starts for ArV1_046:

(Start: 7 @40192 has 17 MA's), (12, 40240), (21, 40309), (23, 40324), (24, 40336), (26, 40360), (29, 40369), (33, 40402), (38, 40459), (42, 40489), (44, 40495), (47, 40513), (50, 40579), (54, 40630),

Gene: BellaJr_78 Start: 46159, Stop: 46614, Start Num: 8

Candidate Starts for BellaJr_78:

(Start: 8 @46159 has 3 MA's), (18, 46252), (21, 46264), (31, 46330), (33, 46357), (39, 46423), (42, 46441), (45, 46453),

Gene: Chipper1996_540 Start: 41114, Stop: 41578, Start Num: 7

Candidate Starts for Chipper1996_540:

(5, 41063), (Start: 7 @41114 has 17 MA's), (12, 41162), (15, 41192), (16, 41195), (18, 41219), (26, 41285), (28, 41291), (33, 41327), (42, 41405), (44, 41411), (47, 41429), (50, 41495), (54, 41546), (55, 41558),

Gene: Chocolat_54 Start: 41094, Stop: 41555, Start Num: 7

Candidate Starts for Chocolat_54:

(5, 41043), (Start: 7 @41094 has 17 MA's), (12, 41142), (15, 41172), (16, 41175), (18, 41199), (26, 41265), (28, 41271), (33, 41307), (42, 41385), (44, 41391), (47, 41409), (50, 41475), (54, 41526),

Gene: Chubster_55 Start: 41246, Stop: 41707, Start Num: 7

Candidate Starts for Chubster_55:

(5, 41195), (Start: 7 @41246 has 17 MA's), (12, 41294), (15, 41324), (16, 41327), (18, 41351), (26, 41417), (28, 41423), (33, 41459), (42, 41537), (44, 41543), (47, 41561), (50, 41627), (54, 41678),

Gene: Colucci_55 Start: 41190, Stop: 41651, Start Num: 7

Candidate Starts for Colucci_55:

(5, 41139), (Start: 7 @41190 has 17 MA's), (14, 41262), (15, 41268), (16, 41271), (22, 41322), (25, 41358), (33, 41403), (42, 41478), (44, 41484), (47, 41502), (50, 41568), (54, 41619),

Gene: Conboy_54 Start: 41242, Stop: 41703, Start Num: 7

Candidate Starts for Conboy_54:

(5, 41191), (Start: 7 @41242 has 17 MA's), (12, 41290), (15, 41320), (16, 41323), (18, 41347), (26, 41413), (28, 41419), (33, 41455), (42, 41533), (44, 41539), (47, 41557), (50, 41623), (54, 41674),

Gene: Ding_86 Start: 47339, Stop: 47791, Start Num: 8

Candidate Starts for Ding_86:

(Start: 8 @47339 has 3 MA's), (11, 47357), (13, 47393), (16, 47411), (19, 47438), (31, 47510), (33, 47537), (34, 47543), (36, 47573), (37, 47576), (41, 47615), (44, 47627), (46, 47642), (49, 47681), (53, 47756),

Gene: Divya_71 Start: 42035, Stop: 42469, Start Num: 8

Candidate Starts for Divya_71:

(Start: 8 @42035 has 3 MA's), (18, 42128), (27, 42194), (31, 42206), (53, 42449),

Gene: EdgarPoe_54 Start: 41242, Stop: 41703, Start Num: 7

Candidate Starts for EdgarPoe_54:

(5, 41191), (Start: 7 @41242 has 17 MA's), (12, 41290), (15, 41320), (16, 41323), (18, 41347), (26, 41413), (28, 41419), (33, 41455), (42, 41533), (44, 41539), (47, 41557), (50, 41623), (54, 41674),

Gene: HumptyDumpty_54 Start: 41112, Stop: 41576, Start Num: 7

Candidate Starts for HumptyDumpty_54:

(5, 41061), (Start: 7 @41112 has 17 MA's), (12, 41160), (15, 41190), (16, 41193), (18, 41217), (26, 41283), (28, 41289), (33, 41325), (42, 41403), (44, 41409), (47, 41427), (50, 41493), (54, 41544), (55, 41556),

Gene: Isolde_83 Start: 47822, Stop: 48277, Start Num: 8

Candidate Starts for Isolde_83:

(1, 47513), (2, 47531), (3, 47564), (4, 47606), (Start: 8 @47822 has 3 MA's), (21, 47927), (30, 47990), (31, 47993), (32, 48008), (33, 48020), (39, 48086), (42, 48104), (45, 48116),

Gene: JaNo_54 Start: 41118, Stop: 41582, Start Num: 7

Candidate Starts for JaNo_54:

(5, 41067), (Start: 7 @41118 has 17 MA's), (12, 41166), (15, 41196), (16, 41199), (18, 41223), (26, 41289), (28, 41295), (33, 41331), (42, 41409), (44, 41415), (47, 41433), (50, 41499), (54, 41550), (55, 41562),

Gene: JayCookie_55 Start: 41505, Stop: 41966, Start Num: 7

Candidate Starts for JayCookie_55:

(5, 41454), (Start: 7 @41505 has 17 MA's), (12, 41553), (15, 41583), (16, 41586), (18, 41610), (26, 41676), (28, 41682), (33, 41718), (42, 41796), (44, 41802), (47, 41820), (50, 41886), (54, 41937),

Gene: KBurrousTX_55 Start: 42517, Stop: 42990, Start Num: 6

Candidate Starts for KBurrousTX_55:

(5, 42463), (Start: 6 @42517 has 1 MA's), (9, 42538), (10, 42550), (12, 42571), (16, 42604), (20, 42637), (27, 42703), (34, 42748), (35, 42769), (39, 42802), (40, 42808), (43, 42820), (49, 42880), (51, 42925), (52, 42949), (53, 42955), (55, 42970),

Gene: Kabreeze_54 Start: 41112, Stop: 41573, Start Num: 7

Candidate Starts for Kabreeze_54:

(5, 41061), (Start: 7 @41112 has 17 MA's), (12, 41160), (15, 41190), (16, 41193), (18, 41217), (26, 41283), (28, 41289), (33, 41325), (42, 41403), (44, 41409), (47, 41427), (50, 41493), (54, 41544),

Gene: Linus_54 Start: 41235, Stop: 41696, Start Num: 7

Candidate Starts for Linus_54:

(5, 41184), (Start: 7 @41235 has 17 MA's), (12, 41283), (15, 41313), (16, 41316), (18, 41340), (26, 41406), (28, 41412), (33, 41448), (42, 41526), (44, 41532), (47, 41550), (50, 41616), (54, 41667),

Gene: Lymara_55 Start: 41454, Stop: 41927, Start Num: 7

Candidate Starts for Lymara_55:

(5, 41403), (Start: 7 @41454 has 17 MA's), (12, 41502), (18, 41559), (22, 41586), (26, 41625), (31, 41640), (33, 41667), (42, 41754), (44, 41760), (47, 41778), (50, 41844), (51, 41862), (54, 41895),

Gene: Mordred_54 Start: 41112, Stop: 41576, Start Num: 7

Candidate Starts for Mordred_54:

(5, 41061), (Start: 7 @41112 has 17 MA's), (12, 41160), (15, 41190), (16, 41193), (18, 41217), (26, 41283), (28, 41289), (33, 41325), (42, 41403), (44, 41409), (47, 41427), (50, 41493), (54, 41544), (55, 41556),

Gene: MoyaNatalis_54 Start: 41081, Stop: 41542, Start Num: 7

Candidate Starts for MoyaNatalis_54:

(5, 41030), (Start: 7 @41081 has 17 MA's), (12, 41129), (15, 41159), (16, 41162), (18, 41186), (26, 41252), (28, 41258), (33, 41294), (42, 41372), (44, 41378), (47, 41396), (50, 41462), (54, 41513),

Gene: PrincessTrina_54 Start: 41258, Stop: 41719, Start Num: 7

Candidate Starts for PrincessTrina_54:

(5, 41207), (Start: 7 @41258 has 17 MA's), (12, 41306), (15, 41336), (16, 41339), (18, 41363), (26, 41429), (28, 41435), (33, 41471), (42, 41549), (44, 41555), (47, 41573), (50, 41639), (54, 41690),

Gene: RosiePosie_54 Start: 41115, Stop: 41576, Start Num: 7

Candidate Starts for RosiePosie_54:

(5, 41064), (Start: 7 @41115 has 17 MA's), (12, 41163), (15, 41193), (16, 41196), (18, 41220), (26, 41286), (28, 41292), (33, 41328), (42, 41406), (44, 41412), (47, 41430), (50, 41496), (54, 41547),

Gene: Scavito_54 Start: 41119, Stop: 41580, Start Num: 7

Candidate Starts for Scavito_54:

(5, 41068), (Start: 7 @41119 has 17 MA's), (12, 41167), (15, 41197), (16, 41200), (18, 41224), (26, 41290), (28, 41296), (33, 41332), (42, 41410), (44, 41416), (47, 41434), (50, 41500), (54, 41551),

Gene: SunnyJune_72 Start: 42285, Stop: 42719, Start Num: 8

Candidate Starts for SunnyJune_72:

(Start: 8 @42285 has 3 MA's), (18, 42378), (27, 42444), (31, 42456), (53, 42699),

Gene: ThayneTheZag_88 Start: 47517, Stop: 47972, Start Num: 8

Candidate Starts for ThayneTheZag_88:

(Start: 8 @47517 has 3 MA's), (17, 47595), (18, 47610), (30, 47685), (31, 47688), (33, 47715), (39, 47781), (42, 47799), (45, 47811), (55, 47949),

Gene: Tophat_54 Start: 41114, Stop: 41578, Start Num: 7

Candidate Starts for Tophat_54:

(5, 41063), (Start: 7 @41114 has 17 MA's), (12, 41162), (15, 41192), (16, 41195), (18, 41219), (26, 41285), (28, 41291), (33, 41327), (42, 41405), (44, 41411), (47, 41429), (50, 41495), (54, 41546), (55, 41558),

Gene: YoungHarleezy_83 Start: 47460, Stop: 47915, Start Num: 8

Candidate Starts for YoungHarleezy_83:

(Start: 8 @47460 has 3 MA's), (18, 47553), (21, 47565), (30, 47628), (33, 47658), (39, 47724), (42, 47742), (45, 47754), (48, 47799),