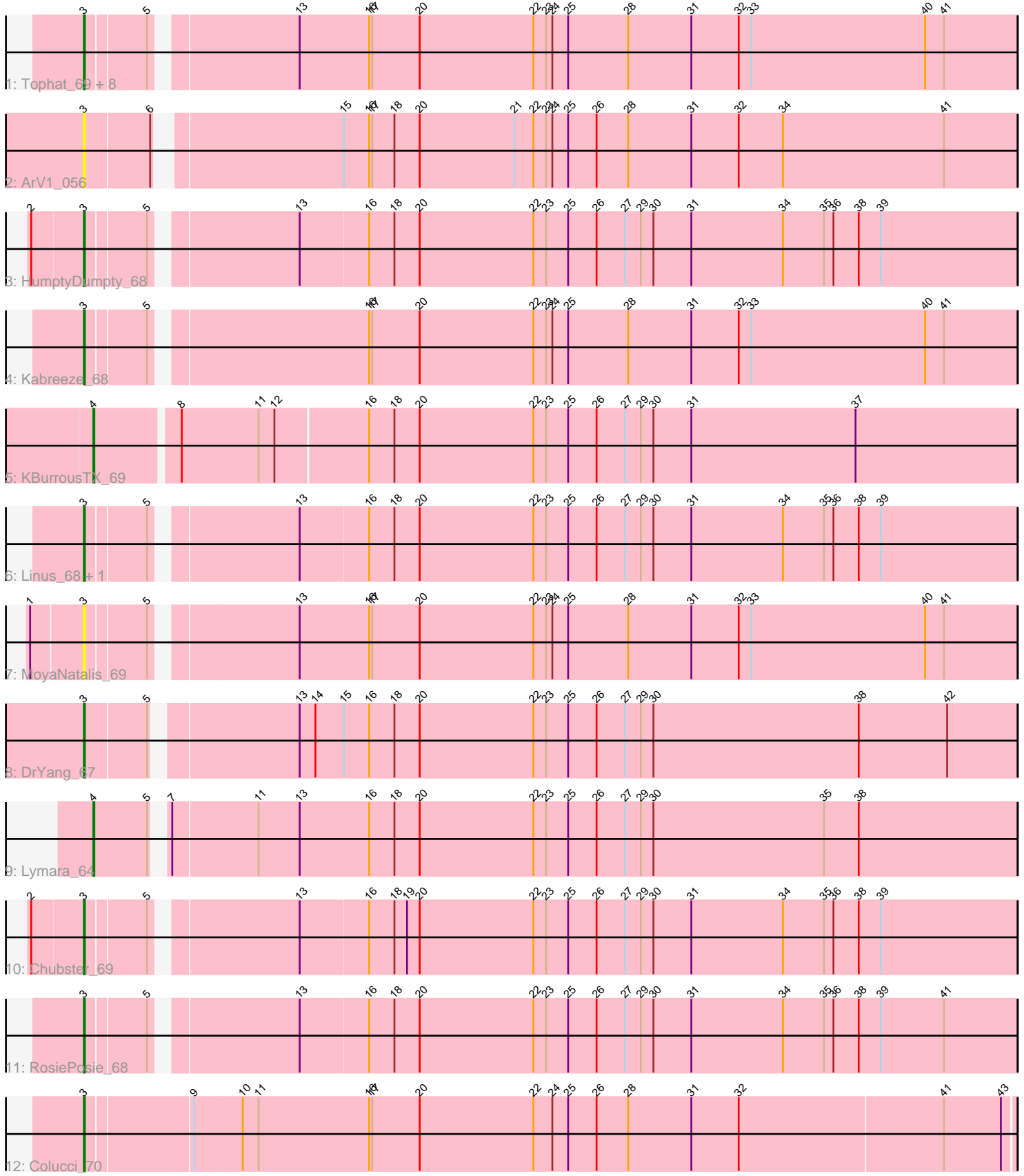


Pham 293148



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 293148 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293148 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Tophat_69, Chocolat_68, JaNo_68, Scavito_69, Chipper1996_690, Conboy_67, PrincessTrina_69, Mordred_68, EdgarPoe_67
- Track 2 : ArV1_056
- Track 3 : HumptyDumpty_68
- Track 4 : Kabreeze_68
- Track 5 : KBurrousTX_69
- Track 6 : Linus_68, JayCookie_70
- Track 7 : MoyaNatalis_69
- Track 8 : DrYang_67
- Track 9 : Lymara_64
- Track 10 : Chubster_69
- Track 11 : RosiePosie_68
- Track 12 : Colucci_70

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

The start number called the most often in the published annotations is 3, it was called in 17 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ArV1_056, Chipper1996_690, Chocolat_68, Chubster_69, Colucci_70, Conboy_67, DrYang_67, EdgarPoe_67, HumptyDumpty_68, JaNo_68, JayCookie_70, Kabreeze_68, Linus_68, Mordred_68, MoyaNatalis_69, PrincessTrina_69, RosiePosie_68, Scavito_69, Tophat_69,

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

-

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

- KBurrousTX_69, Lymara_64,

Summary by start number:

Start 3:

- Found in 19 of 21 (90.5%) of genes in pham
- Manual Annotations of this start: 17 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_056 (AR), Chipper1996_690 (AR), Chocolat_68 (AR), Chubster_69 (AR), Colucci_70 (AR), Conboy_67 (AR), DrYang_67 (AR), EdgarPoe_67 (AR), HumptyDumpty_68 (AR), JaNo_68 (AR), JayCookie_70 (AR), Kabreeze_68 (AR), Linus_68 (AR), Mordred_68 (AR), MoyaNatalis_69 (AR), PrincessTrina_69 (AR), RosiePosie_68 (AR), Scavito_69 (AR), Tophat_69 (AR),

Start 4:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_69 (AR), Lymara_64 (AR),

Summary by clusters:

There is one cluster represented in this pham: AR

Info for manual annotations of cluster AR:

- Start number 3 was manually annotated 17 times for cluster AR.
- Start number 4 was manually annotated 2 times for cluster AR.

Gene Information:

Gene: ArV1_056 Start: 45051, Stop: 45908, Start Num: 3

Candidate Starts for ArV1_056:

(Start: 3 @45051 has 17 MA's), (6, 45111), (15, 45270), (16, 45294), (17, 45297), (18, 45318), (20, 45342), (21, 45432), (22, 45450), (23, 45462), (24, 45468), (25, 45483), (26, 45510), (28, 45540), (31, 45600), (32, 45645), (34, 45687), (41, 45840),

Gene: Chipper1996_690 Start: 46328, Stop: 47185, Start Num: 3

Candidate Starts for Chipper1996_690:

(Start: 3 @46328 has 17 MA's), (5, 46382), (13, 46505), (16, 46571), (17, 46574), (20, 46619), (22, 46727), (23, 46739), (24, 46745), (25, 46760), (28, 46817), (31, 46877), (32, 46922), (33, 46934), (40, 47099), (41, 47117),

Gene: Chocolat_68 Start: 46353, Stop: 47210, Start Num: 3

Candidate Starts for Chocolat_68:

(Start: 3 @46353 has 17 MA's), (5, 46407), (13, 46530), (16, 46596), (17, 46599), (20, 46644), (22, 46752), (23, 46764), (24, 46770), (25, 46785), (28, 46842), (31, 46902), (32, 46947), (33, 46959), (40, 47124), (41, 47142),

Gene: Chubster_69 Start: 46529, Stop: 47383, Start Num: 3

Candidate Starts for Chubster_69:

(2, 46481), (Start: 3 @46529 has 17 MA's), (5, 46583), (13, 46706), (16, 46769), (18, 46793), (19, 46805), (20, 46817), (22, 46925), (23, 46937), (25, 46958), (26, 46985), (27, 47012), (29, 47027), (30, 47039), (31, 47075), (34, 47162), (35, 47201), (36, 47210), (38, 47234), (39, 47255),

Gene: Colucci_70 Start: 46486, Stop: 47355, Start Num: 3

Candidate Starts for Colucci_70:

(Start: 3 @46486 has 17 MA's), (9, 46582), (10, 46627), (11, 46642), (16, 46747), (17, 46750), (20, 46795), (22, 46903), (24, 46921), (25, 46936), (26, 46963), (28, 46993), (31, 47053), (32, 47098), (41, 47290), (43, 47344),

Gene: Conboy_67 Start: 46192, Stop: 47049, Start Num: 3

Candidate Starts for Conboy_67:

(Start: 3 @46192 has 17 MA's), (5, 46246), (13, 46369), (16, 46435), (17, 46438), (20, 46483), (22, 46591), (23, 46603), (24, 46609), (25, 46624), (28, 46681), (31, 46741), (32, 46786), (33, 46798), (40, 46963), (41, 46981),

Gene: DrYang_67 Start: 47844, Stop: 48704, Start Num: 3

Candidate Starts for DrYang_67:

(Start: 3 @47844 has 17 MA's), (5, 47901), (13, 48024), (14, 48039), (15, 48066), (16, 48090), (18, 48114), (20, 48138), (22, 48246), (23, 48258), (25, 48279), (26, 48306), (27, 48333), (29, 48348), (30, 48360), (38, 48555), (42, 48639),

Gene: EdgarPoe_67 Start: 46192, Stop: 47049, Start Num: 3

Candidate Starts for EdgarPoe_67:

(Start: 3 @46192 has 17 MA's), (5, 46246), (13, 46369), (16, 46435), (17, 46438), (20, 46483), (22, 46591), (23, 46603), (24, 46609), (25, 46624), (28, 46681), (31, 46741), (32, 46786), (33, 46798), (40, 46963), (41, 46981),

Gene: HumptyDumpty_68 Start: 46316, Stop: 47170, Start Num: 3

Candidate Starts for HumptyDumpty_68:

(2, 46268), (Start: 3 @46316 has 17 MA's), (5, 46370), (13, 46493), (16, 46556), (18, 46580), (20, 46604), (22, 46712), (23, 46724), (25, 46745), (26, 46772), (27, 46799), (29, 46814), (30, 46826), (31, 46862), (34, 46949), (35, 46988), (36, 46997), (38, 47021), (39, 47042),

Gene: JaNo_68 Start: 46284, Stop: 47141, Start Num: 3

Candidate Starts for JaNo_68:

(Start: 3 @46284 has 17 MA's), (5, 46338), (13, 46461), (16, 46527), (17, 46530), (20, 46575), (22, 46683), (23, 46695), (24, 46701), (25, 46716), (28, 46773), (31, 46833), (32, 46878), (33, 46890), (40, 47055), (41, 47073),

Gene: JayCookie_70 Start: 46917, Stop: 47771, Start Num: 3

Candidate Starts for JayCookie_70:

(Start: 3 @46917 has 17 MA's), (5, 46971), (13, 47094), (16, 47157), (18, 47181), (20, 47205), (22, 47313), (23, 47325), (25, 47346), (26, 47373), (27, 47400), (29, 47415), (30, 47427), (31, 47463), (34, 47550), (35, 47589), (36, 47598), (38, 47622), (39, 47643),

Gene: KBurrousTX_69 Start: 48104, Stop: 48964, Start Num: 4

Candidate Starts for KBurrousTX_69:

(Start: 4 @48104 has 2 MA's), (8, 48179), (11, 48251), (12, 48266), (16, 48350), (18, 48374), (20, 48398), (22, 48506), (23, 48518), (25, 48539), (26, 48566), (27, 48593), (29, 48608), (30, 48620), (31, 48656), (37, 48812),

Gene: Kabreeze_68 Start: 46371, Stop: 47228, Start Num: 3

Candidate Starts for Kabreeze_68:

(Start: 3 @46371 has 17 MA's), (5, 46425), (16, 46614), (17, 46617), (20, 46662), (22, 46770), (23, 46782), (24, 46788), (25, 46803), (28, 46860), (31, 46920), (32, 46965), (33, 46977), (40, 47142), (41, 47160),

Gene: Linus_68 Start: 46494, Stop: 47348, Start Num: 3

Candidate Starts for Linus_68:

(Start: 3 @46494 has 17 MA's), (5, 46548), (13, 46671), (16, 46734), (18, 46758), (20, 46782), (22, 46890), (23, 46902), (25, 46923), (26, 46950), (27, 46977), (29, 46992), (30, 47004), (31, 47040), (34, 47127), (35, 47166), (36, 47175), (38, 47199), (39, 47220),

Gene: Lymara_64 Start: 44634, Stop: 45488, Start Num: 4

Candidate Starts for Lymara_64:

(Start: 4 @44634 has 2 MA's), (5, 44685), (7, 44691), (11, 44769), (13, 44808), (16, 44874), (18, 44898), (20, 44922), (22, 45030), (23, 45042), (25, 45063), (26, 45090), (27, 45117), (29, 45132), (30, 45144), (35, 45306), (38, 45339),

Gene: Mordred_68 Start: 46409, Stop: 47266, Start Num: 3

Candidate Starts for Mordred_68:

(Start: 3 @46409 has 17 MA's), (5, 46463), (13, 46586), (16, 46652), (17, 46655), (20, 46700), (22, 46808), (23, 46820), (24, 46826), (25, 46841), (28, 46898), (31, 46958), (32, 47003), (33, 47015), (40, 47180), (41, 47198),

Gene: MoyaNatalis_69 Start: 46364, Stop: 47221, Start Num: 3

Candidate Starts for MoyaNatalis_69:

(1, 46316), (Start: 3 @46364 has 17 MA's), (5, 46418), (13, 46541), (16, 46607), (17, 46610), (20, 46655), (22, 46763), (23, 46775), (24, 46781), (25, 46796), (28, 46853), (31, 46913), (32, 46958), (33, 46970), (40, 47135), (41, 47153),

Gene: PrincessTrina_69 Start: 46396, Stop: 47253, Start Num: 3

Candidate Starts for PrincessTrina_69:

(Start: 3 @46396 has 17 MA's), (5, 46450), (13, 46573), (16, 46639), (17, 46642), (20, 46687), (22, 46795), (23, 46807), (24, 46813), (25, 46828), (28, 46885), (31, 46945), (32, 46990), (33, 47002), (40, 47167), (41, 47185),

Gene: RosiePosie_68 Start: 46183, Stop: 47037, Start Num: 3

Candidate Starts for RosiePosie_68:

(Start: 3 @46183 has 17 MA's), (5, 46237), (13, 46360), (16, 46423), (18, 46447), (20, 46471), (22, 46579), (23, 46591), (25, 46612), (26, 46639), (27, 46666), (29, 46681), (30, 46693), (31, 46729), (34, 46816), (35, 46855), (36, 46864), (38, 46888), (39, 46909), (41, 46969),

Gene: Scavito_69 Start: 46458, Stop: 47315, Start Num: 3

Candidate Starts for Scavito_69:

(Start: 3 @46458 has 17 MA's), (5, 46512), (13, 46635), (16, 46701), (17, 46704), (20, 46749), (22, 46857), (23, 46869), (24, 46875), (25, 46890), (28, 46947), (31, 47007), (32, 47052), (33, 47064), (40, 47229), (41, 47247),

Gene: Tophat_69 Start: 46329, Stop: 47186, Start Num: 3

Candidate Starts for Tophat_69:

(Start: 3 @46329 has 17 MA's), (5, 46383), (13, 46506), (16, 46572), (17, 46575), (20, 46620), (22, 46728), (23, 46740), (24, 46746), (25, 46761), (28, 46818), (31, 46878), (32, 46923), (33, 46935), (40, 47100), (41, 47118),