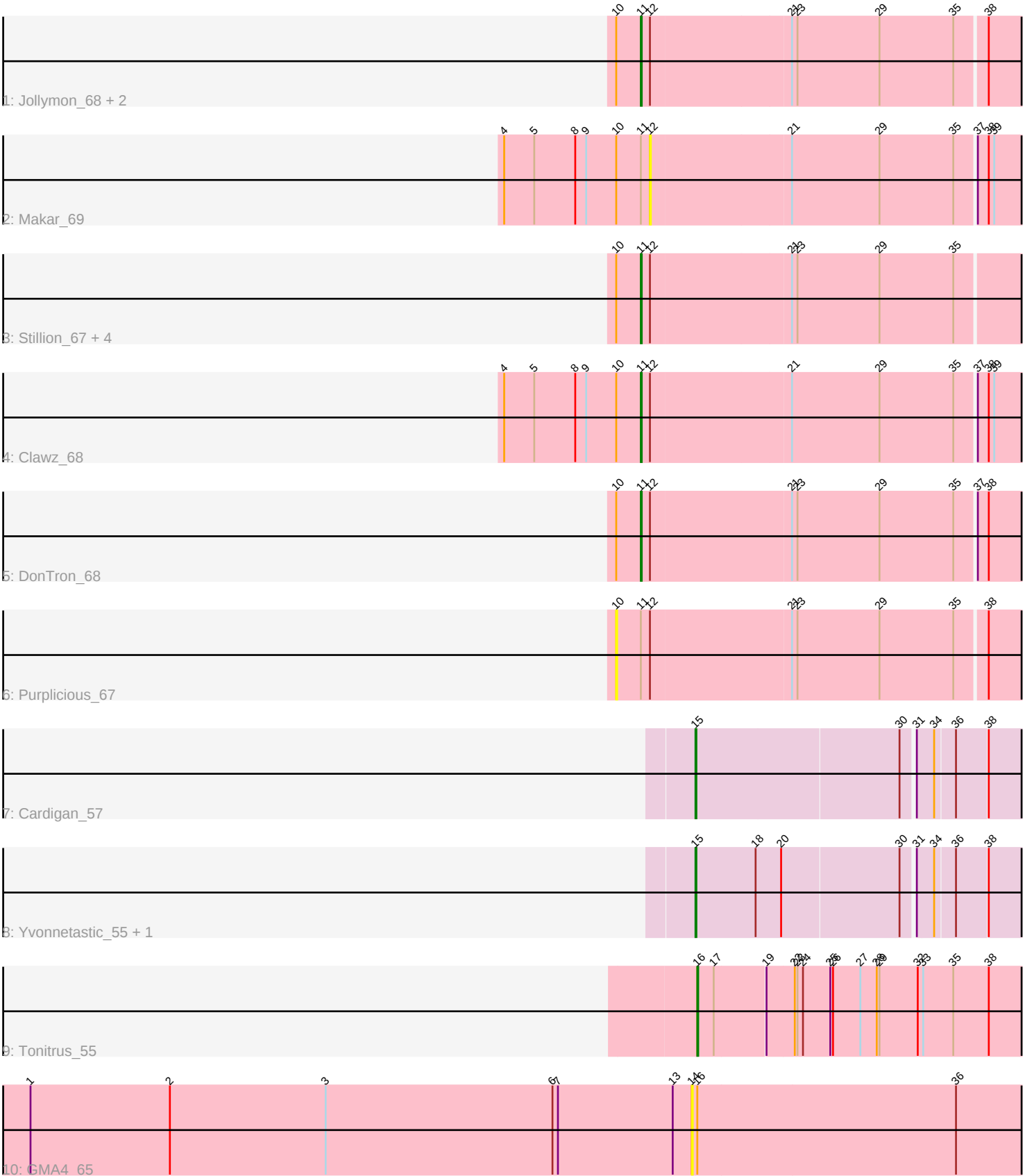


Pham 309448



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 309448 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309448 has 17 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Jollymon_68, Amo99_69, ColdSoup_69
- Track 2 : Makar_69
- Track 3 : Stillion_67, KingstonB_66, Grumio_68, Sting_67, Soos_64
- Track 4 : Clawz_68
- Track 5 : DonTron_68
- Track 6 : Purplicious_67
- Track 7 : Cardigan_57
- Track 8 : Yvonnetastic_55, JonJames_57
- Track 9 : Tonitrus_55
- Track 10 : GMA4_65

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

The start number called the most often in the published annotations is 11, it was called in 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amo99_69, Clawz_68, ColdSoup_69, DonTron_68, Grumio_68, Jollymon_68, KingstonB_66, Soos_64, Stillion_67, Sting_67,

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

- Makar_69, Purplicious_67,

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

- Cardigan_57, GMA4_65, JonJames_57, Tonitrus_55, Yvonnetastic_55,

Summary by start number:

Start 10:

- Found in 12 of 17 (70.6%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Purplicious_67 (CP),

Start 11:

- Found in 12 of 17 (70.6%) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Amo99_69 (CP), Clawz_68 (CP), ColdSoup_69 (CP), DonTron_68 (CP), Grumio_68 (CP), Jollymon_68 (CP), KingstonB_66 (CP), Soos_64 (CP), Stillion_67 (CP), Sting_67 (CP),

Start 12:

- Found in 12 of 17 (70.6%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Makar_69 (CP),

Start 14:

- Found in 1 of 17 (5.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA4_65 (singleton),

Start 15:

- Found in 3 of 17 (17.6%) of genes in pham
- Manual Annotations of this start: 3 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan_57 (DD), JonJames_57 (DD), Yvonnestic_55 (DD),

Start 16:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_55 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: DD, CP, singleton,

Info for manual annotations of cluster CP:

- Start number 11 was manually annotated 7 times for cluster CP.

Info for manual annotations of cluster DD:

- Start number 15 was manually annotated 3 times for cluster DD.

Gene Information:

Gene: Amo99_69 Start: 45305, Stop: 45724, Start Num: 11

Candidate Starts for Amo99_69:

(10, 45278), (Start: 11 @45305 has 7 MA's), (12, 45314), (21, 45464), (23, 45470), (29, 45560), (35, 45641), (38, 45674),

Gene: Cardigan_57 Start: 41456, Stop: 41809, Start Num: 15

Candidate Starts for Cardigan_57:

(Start: 15 @41456 has 3 MA's), (30, 41675), (31, 41687), (34, 41705), (36, 41726), (38, 41759),

Gene: Clawz_68 Start: 45191, Stop: 45610, Start Num: 11

Candidate Starts for Clawz_68:

(4, 45041), (5, 45074), (8, 45119), (9, 45131), (10, 45164), (Start: 11 @45191 has 7 MA's), (12, 45200), (21, 45350), (29, 45446), (35, 45527), (37, 45548), (38, 45560), (39, 45566),

Gene: ColdSoup_69 Start: 45386, Stop: 45805, Start Num: 11

Candidate Starts for ColdSoup_69:

(10, 45359), (Start: 11 @45386 has 7 MA's), (12, 45395), (21, 45545), (23, 45551), (29, 45641), (35, 45722), (38, 45755),

Gene: DonTron_68 Start: 45427, Stop: 45846, Start Num: 11

Candidate Starts for DonTron_68:

(10, 45400), (Start: 11 @45427 has 7 MA's), (12, 45436), (21, 45586), (23, 45592), (29, 45682), (35, 45763), (37, 45784), (38, 45796),

Gene: GMA4_65 Start: 42338, Stop: 42712, Start Num: 14

Candidate Starts for GMA4_65:

(1, 41612), (2, 41765), (3, 41936), (6, 42185), (7, 42191), (13, 42317), (14, 42338), (Start: 16 @42344 has 1 MA's), (36, 42626),

Gene: Grumio_68 Start: 44868, Stop: 45287, Start Num: 11

Candidate Starts for Grumio_68:

(10, 44841), (Start: 11 @44868 has 7 MA's), (12, 44877), (21, 45027), (23, 45033), (29, 45123), (35, 45204),

Gene: Jollymon_68 Start: 45386, Stop: 45805, Start Num: 11

Candidate Starts for Jollymon_68:

(10, 45359), (Start: 11 @45386 has 7 MA's), (12, 45395), (21, 45545), (23, 45551), (29, 45641), (35, 45722), (38, 45755),

Gene: JonJames_57 Start: 41518, Stop: 41871, Start Num: 15

Candidate Starts for JonJames_57:

(Start: 15 @41518 has 3 MA's), (18, 41584), (20, 41611), (30, 41737), (31, 41749), (34, 41767), (36, 41788), (38, 41821),

Gene: KingstonB_66 Start: 44865, Stop: 45284, Start Num: 11

Candidate Starts for KingstonB_66:

(10, 44838), (Start: 11 @44865 has 7 MA's), (12, 44874), (21, 45024), (23, 45030), (29, 45120), (35, 45201),

Gene: Makar_69 Start: 45227, Stop: 45637, Start Num: 12

Candidate Starts for Makar_69:

(4, 45068), (5, 45101), (8, 45146), (9, 45158), (10, 45191), (Start: 11 @45218 has 7 MA's), (12, 45227), (21, 45377), (29, 45473), (35, 45554), (37, 45575), (38, 45587), (39, 45593),

Gene: Purplicious_67 Start: 44606, Stop: 45052, Start Num: 10

Candidate Starts for Purplicious_67:

(10, 44606), (Start: 11 @44633 has 7 MA's), (12, 44642), (21, 44792), (23, 44798), (29, 44888), (35, 44969), (38, 45002),

Gene: Soos_64 Start: 44594, Stop: 45013, Start Num: 11

Candidate Starts for Soos_64:

(10, 44567), (Start: 11 @44594 has 7 MA's), (12, 44603), (21, 44753), (23, 44759), (29, 44849), (35, 44930),

Gene: Stillion_67 Start: 45191, Stop: 45610, Start Num: 11

Candidate Starts for Stillion_67:

(10, 45164), (Start: 11 @45191 has 7 MA's), (12, 45200), (21, 45350), (23, 45356), (29, 45446), (35, 45527),

Gene: Sting_67 Start: 45033, Stop: 45452, Start Num: 11

Candidate Starts for Sting_67:

(10, 45006), (Start: 11 @45033 has 7 MA's), (12, 45042), (21, 45192), (23, 45198), (29, 45288), (35, 45369),

Gene: Tonitrus_55 Start: 41828, Stop: 42193, Start Num: 16

Candidate Starts for Tonitrus_55:

(Start: 16 @41828 has 1 MA's), (17, 41846), (19, 41900), (22, 41930), (23, 41933), (24, 41939), (25, 41969), (26, 41972), (27, 42002), (28, 42020), (29, 42023), (32, 42065), (33, 42071), (35, 42104), (38, 42143),

Gene: Yvonnetastic_55 Start: 39053, Stop: 39406, Start Num: 15

Candidate Starts for Yvonnetastic_55:

(Start: 15 @39053 has 3 MA's), (18, 39119), (20, 39146), (30, 39272), (31, 39284), (34, 39302), (36, 39323), (38, 39356),