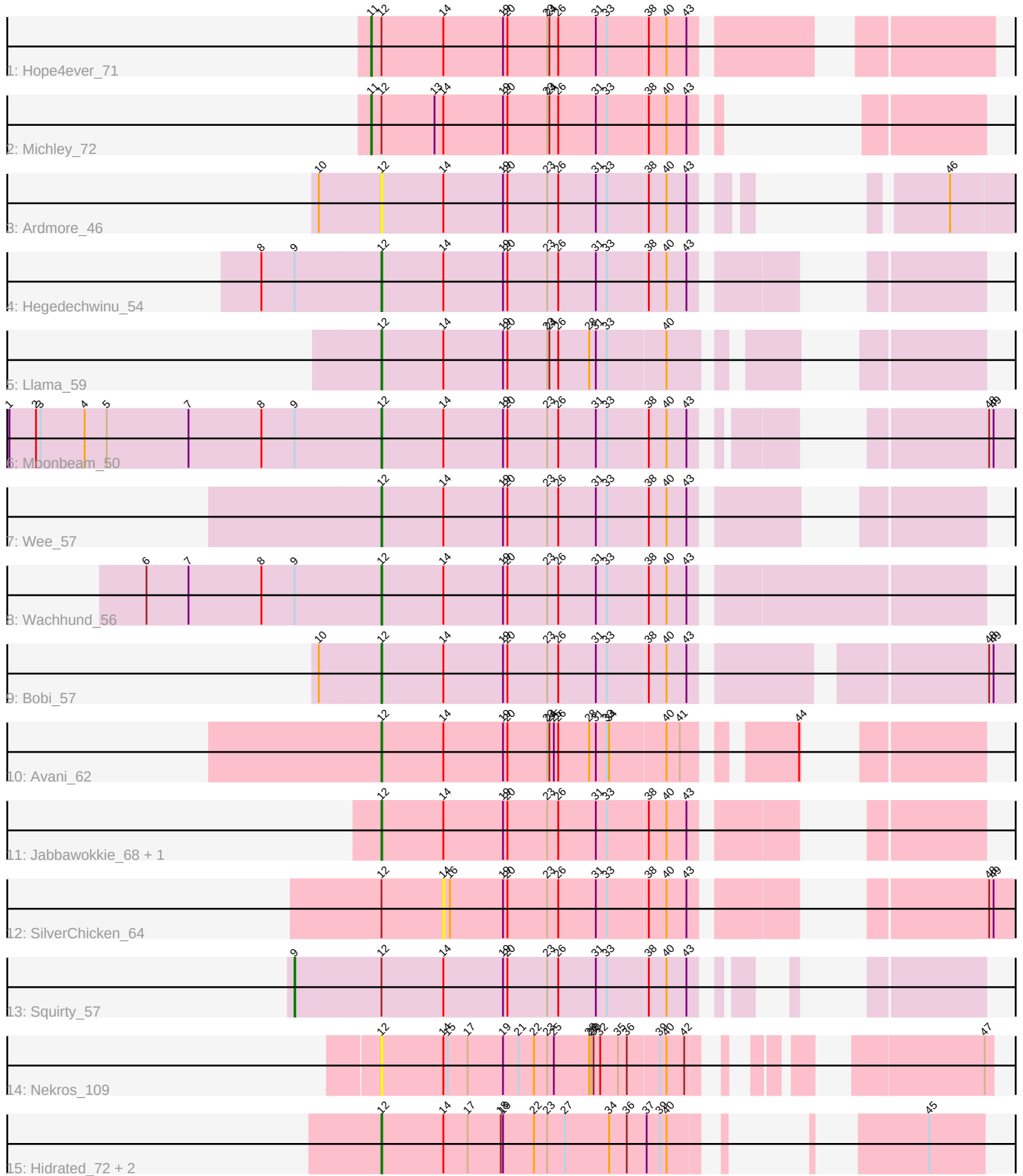


Pham 331306



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 331306 Report

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

Pham number 331306 has 18 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Hope4ever_71
- Track 2 : Michley_72
- Track 3 : Ardmore_46
- Track 4 : Hegedechwinu_54
- Track 5 : Llama_59
- Track 6 : Moonbeam_50
- Track 7 : Wee_57
- Track 8 : Wachhund_56
- Track 9 : Bobi_57
- Track 10 : Avani_62
- Track 11 : Jabbawokkie_68, Zapner_67
- Track 12 : SilverChicken_64
- Track 13 : Squirty_57
- Track 14 : Nekros_109
- Track 15 : Hidrated_72, Bobby_79, Marleymoo_71

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

The start number called the most often in the published annotations is 12, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ardmore_46, Avani_62, Bobby_79, Bobi_57, Hegedechwinu_54, Hidrated_72, Jabbawokkie_68, Llama_59, Marleymoo_71, Moonbeam_50, Nekros_109, Wachhund_56, Wee_57, Zapner_67,

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

- Hope4ever_71, Michley_72, SilverChicken_64, Squirty_57,

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

-

Summary by start number:

Start 9:

- Found in 4 of 18 (22.2%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Squirty_57 (F3),

Start 11:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hope4ever_71 (A1), Michley_72 (A1),

Start 12:

- Found in 18 of 18 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 77.8% of time when present
- Phage (with cluster) where this start called: Ardmore_46 (F1), Avani_62 (F2), Bobby_79 (J), Bobi_57 (F1), Hegedechwinu_54 (F1), Hidrated_72 (J), Jabbawokkie_68 (F2), Llama_59 (F1), Marleymoo_71 (J), Moonbeam_50 (F1), Nekros_109 (J), Wachhund_56 (F1), Wee_57 (F1), Zapner_67 (F2),

Start 14:

- Found in 18 of 18 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 5.6% of time when present
- Phage (with cluster) where this start called: SilverChicken_64 (F2),

Summary by clusters:

There are 5 clusters represented in this pham: A1, F1, F2, F3, J,

Info for manual annotations of cluster A1:

- Start number 11 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 6 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 12 was manually annotated 3 times for cluster F2.

Info for manual annotations of cluster F3:

- Start number 9 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster J:

- Start number 12 was manually annotated 2 times for cluster J.

Gene Information:

Gene: Ardmore_46 Start: 36084, Stop: 36734, Start Num: 12

Candidate Starts for Ardmore_46:

(10, 36003), (Start: 12 @36084 has 11 MA's), (14, 36168), (19, 36249), (20, 36255), (23, 36309), (26, 36324), (31, 36375), (33, 36390), (38, 36444), (40, 36468), (43, 36495), (46, 36645),

Gene: Avani_62 Start: 38318, Stop: 38998, Start Num: 12

Candidate Starts for Avani_62:

(Start: 12 @38318 has 11 MA's), (14, 38402), (19, 38483), (20, 38489), (23, 38543), (24, 38546), (25, 38552), (26, 38558), (28, 38600), (31, 38609), (33, 38624), (34, 38627), (40, 38702), (41, 38720), (44, 38834),

Gene: Bobby_79 Start: 52969, Stop: 52163, Start Num: 12

Candidate Starts for Bobby_79:

(Start: 12 @52969 has 11 MA's), (14, 52885), (17, 52852), (18, 52807), (19, 52804), (22, 52762), (23, 52744), (27, 52720), (34, 52660), (36, 52636), (37, 52609), (39, 52591), (40, 52582), (45, 52237),

Gene: Bobi_57 Start: 39144, Stop: 39935, Start Num: 12

Candidate Starts for Bobi_57:

(10, 39063), (Start: 12 @39144 has 11 MA's), (14, 39228), (19, 39309), (20, 39315), (23, 39369), (26, 39384), (31, 39435), (33, 39450), (38, 39504), (40, 39528), (43, 39555), (48, 39903), (49, 39909),

Gene: Hegedechwinu_54 Start: 36679, Stop: 37368, Start Num: 12

Candidate Starts for Hegedechwinu_54:

(8, 36520), (Start: 9 @36565 has 1 MA's), (Start: 12 @36679 has 11 MA's), (14, 36763), (19, 36844), (20, 36850), (23, 36904), (26, 36919), (31, 36970), (33, 36985), (38, 37039), (40, 37063), (43, 37090),

Gene: Hidrated_72 Start: 52054, Stop: 51440, Start Num: 12

Candidate Starts for Hidrated_72:

(Start: 12 @52054 has 11 MA's), (14, 51970), (17, 51937), (18, 51892), (19, 51889), (22, 51847), (23, 51829), (27, 51805), (34, 51745), (36, 51721), (37, 51694), (39, 51676), (40, 51667), (45, 51514),

Gene: Hope4ever_71 Start: 44113, Stop: 43361, Start Num: 11

Candidate Starts for Hope4ever_71:

(Start: 11 @44113 has 2 MA's), (Start: 12 @44101 has 11 MA's), (14, 44017), (19, 43936), (20, 43930), (23, 43876), (24, 43873), (26, 43861), (31, 43810), (33, 43795), (38, 43741), (40, 43717), (43, 43690),

Gene: Jabbawokkie_68 Start: 39326, Stop: 40015, Start Num: 12

Candidate Starts for Jabbawokkie_68:

(Start: 12 @39326 has 11 MA's), (14, 39410), (19, 39491), (20, 39497), (23, 39551), (26, 39566), (31, 39617), (33, 39632), (38, 39686), (40, 39710), (43, 39737),

Gene: Llama_59 Start: 40037, Stop: 40720, Start Num: 12

Candidate Starts for Llama_59:

(Start: 12 @40037 has 11 MA's), (14, 40121), (19, 40202), (20, 40208), (23, 40262), (24, 40265), (26, 40277), (28, 40319), (31, 40328), (33, 40343), (40, 40421),

Gene: Marleymoo_71 Start: 50759, Stop: 49965, Start Num: 12

Candidate Starts for Marleymoo_71:

(Start: 12 @50759 has 11 MA's), (14, 50675), (17, 50642), (18, 50597), (19, 50594), (22, 50552), (23, 50534), (27, 50510), (34, 50450), (36, 50426), (37, 50399), (39, 50381), (40, 50372), (45, 50039),

Gene: Michley_72 Start: 44145, Stop: 43537, Start Num: 11

Candidate Starts for Michley_72:

(Start: 11 @44145 has 2 MA's), (Start: 12 @44133 has 11 MA's), (13, 44061), (14, 44049), (19, 43968), (20, 43962), (23, 43908), (24, 43905), (26, 43893), (31, 43842), (33, 43827), (38, 43773), (40, 43749),

(43, 43722),

Gene: Moonbeam_50 Start: 37207, Stop: 37923, Start Num: 12

Candidate Starts for Moonbeam_50:

(1, 36706), (2, 36742), (3, 36748), (4, 36808), (5, 36838), (7, 36949), (8, 37048), (Start: 9 @37093 has 1 MA's), (Start: 12 @37207 has 11 MA's), (14, 37291), (19, 37372), (20, 37378), (23, 37432), (26, 37447), (31, 37498), (33, 37513), (38, 37567), (40, 37591), (43, 37618), (48, 37891), (49, 37897),

Gene: Nekros_109 Start: 61935, Stop: 62624, Start Num: 12

Candidate Starts for Nekros_109:

(Start: 12 @61935 has 11 MA's), (14, 62019), (15, 62025), (17, 62052), (19, 62100), (21, 62121), (22, 62142), (23, 62160), (25, 62169), (28, 62217), (29, 62220), (30, 62223), (32, 62232), (35, 62256), (36, 62268), (39, 62310), (40, 62319), (42, 62343), (47, 62613),

Gene: SilverChicken_64 Start: 37866, Stop: 38510, Start Num: 14

Candidate Starts for SilverChicken_64:

(Start: 12 @37782 has 11 MA's), (14, 37866), (16, 37875), (19, 37947), (20, 37953), (23, 38007), (26, 38022), (31, 38073), (33, 38088), (38, 38142), (40, 38166), (43, 38193), (48, 38478), (49, 38484),

Gene: Squirty_57 Start: 38990, Stop: 39736, Start Num: 9

Candidate Starts for Squirty_57:

(Start: 9 @38990 has 1 MA's), (Start: 12 @39104 has 11 MA's), (14, 39188), (19, 39269), (20, 39275), (23, 39329), (26, 39344), (31, 39395), (33, 39410), (38, 39464), (40, 39488), (43, 39515),

Gene: Wachhund_56 Start: 37784, Stop: 38566, Start Num: 12

Candidate Starts for Wachhund_56:

(6, 37469), (7, 37526), (8, 37625), (Start: 9 @37670 has 1 MA's), (Start: 12 @37784 has 11 MA's), (14, 37868), (19, 37949), (20, 37955), (23, 38009), (26, 38024), (31, 38075), (33, 38090), (38, 38144), (40, 38168), (43, 38195),

Gene: Wee_57 Start: 39390, Stop: 40094, Start Num: 12

Candidate Starts for Wee_57:

(Start: 12 @39390 has 11 MA's), (14, 39474), (19, 39555), (20, 39561), (23, 39615), (26, 39630), (31, 39681), (33, 39696), (38, 39750), (40, 39774), (43, 39801),

Gene: Zapner_67 Start: 39327, Stop: 40109, Start Num: 12

Candidate Starts for Zapner_67:

(Start: 12 @39327 has 11 MA's), (14, 39411), (19, 39492), (20, 39498), (23, 39552), (26, 39567), (31, 39618), (33, 39633), (38, 39687), (40, 39711), (43, 39738),