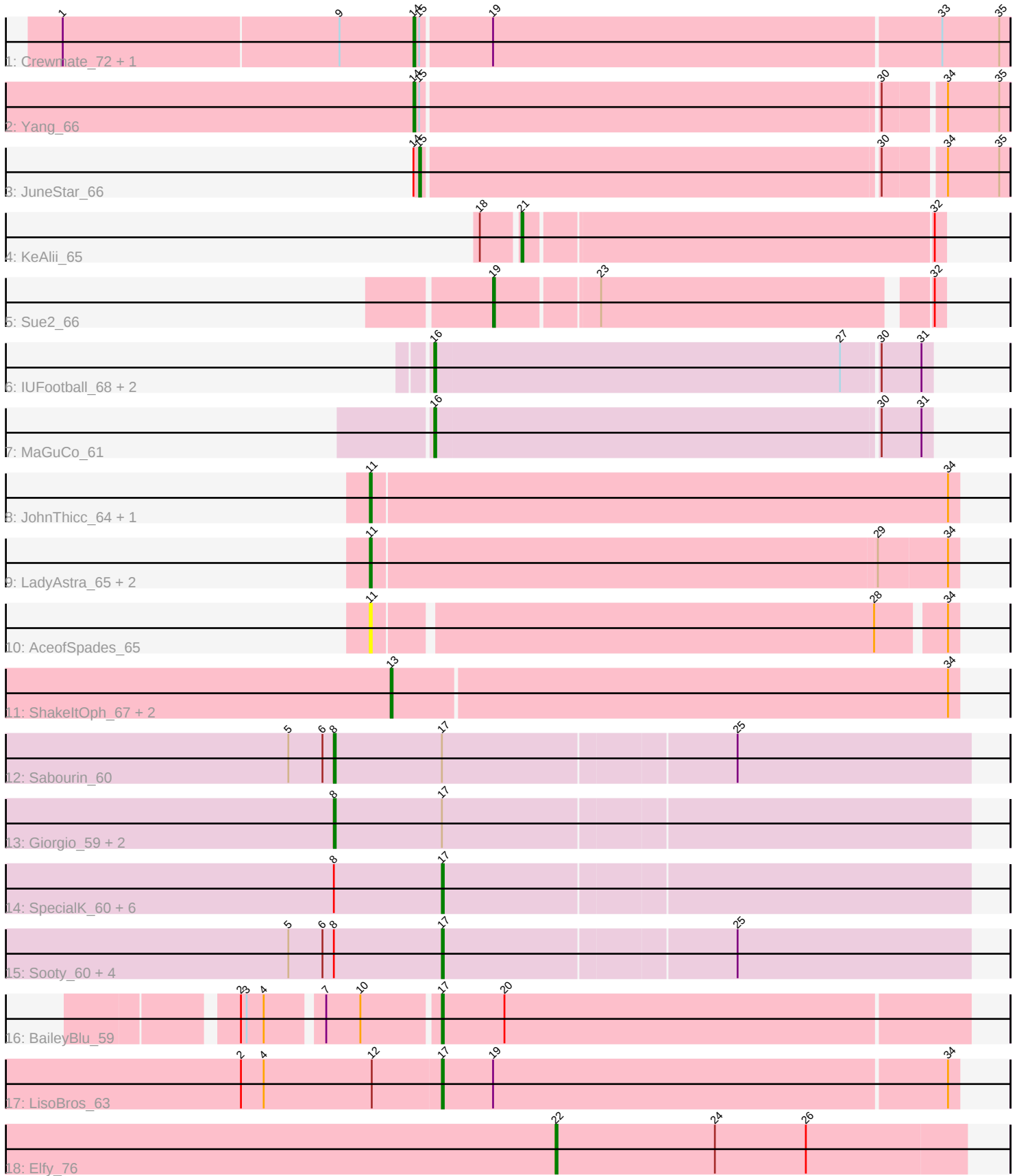


Pham 331029



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 331029 Report

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

Pham number 331029 has 38 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Crewmate_72, ObiToo_72
- Track 2 : Yang_66
- Track 3 : JuneStar_66
- Track 4 : KeAlii_65
- Track 5 : Sue2_66
- Track 6 : IUFootball_68, Liebe_67, Maureen_67
- Track 7 : MaGuCo_61
- Track 8 : JohnThicc_64, VroomVroom_64
- Track 9 : LadyAstra_65, Origami_64, FiveHead_70
- Track 10 : AceofSpades_65
- Track 11 : ShakeltOph_67, JasmineDragon_67, MiniMommy_67
- Track 12 : Sabourin_60
- Track 13 : Giorgio_59, Stuu_60, Gumpizza_59
- Track 14 : SpecialK_60, Ashes_60, RockScotty_59, Mysterium_59, Beaupre_59, Moss_60, Halsey_60
- Track 15 : Sooty_60, Cappuccino_60, Kalimba_60, Donkey_60, Gambol_61
- Track 16 : BaileyBlu_59
- Track 17 : LisoBros_63
- Track 18 : Elfy_76

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

The start number called the most often in the published annotations is 17, it was called in 14 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashes_60, BaileyBlu_59, Beaupre_59, Cappuccino_60, Donkey_60, Gambol_61, Halsey_60, Kalimba_60, LisoBros_63, Moss_60, Mysterium_59, RockScotty_59, Sooty_60, SpecialK_60,

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

- Giorgio_59, Gumpizza_59, Sabourin_60, Stuu_60,

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

• AceofSpades_65, Crewmate_72, Elfy_76, FiveHead_70, IUFootball_68, JasmineDragon_67, JohnThicc_64, JuneStar_66, KeAlii_65, LadyAstra_65, Liebe_67, MaGuCo_61, Maureen_67, MiniMommy_67, ObiToo_72, Origami_64, ShakeltOph_67, Sue2_66, VroomVroom_64, Yang_66,

Summary by start number:

Start 8:

- Found in 16 of 38 (42.1%) of genes in pham
- Manual Annotations of this start: 4 of 36
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Giorgio_59 (AZ5), Gumpizza_59 (AZ5), Sabourin_60 (AZ5), Stuu_60 (AZ5),

Start 11:

- Found in 6 of 38 (15.8%) of genes in pham
- Manual Annotations of this start: 4 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AceofSpades_65 (AZ4), FiveHead_70 (AZ4), JohnThicc_64 (AZ4), LadyAstra_65 (AZ4), Origami_64 (AZ4), VroomVroom_64 (AZ4),

Start 13:

- Found in 3 of 38 (7.9%) of genes in pham
- Manual Annotations of this start: 3 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JasmineDragon_67 (AZ4), MiniMommy_67 (AZ4), ShakeltOph_67 (AZ4),

Start 14:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 3 of 36
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Crewmate_72 (AZ1), ObiToo_72 (AZ1), Yang_66 (AZ1),

Start 15:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 25.0% of time when present
- Phage (with cluster) where this start called: JuneStar_66 (AZ1),

Start 16:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 4 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IUFootball_68 (AZ2), Liebe_67 (AZ2), MaGuCo_61 (AZ2), Maureen_67 (AZ2),

Start 17:

- Found in 18 of 38 (47.4%) of genes in pham
- Manual Annotations of this start: 14 of 36
- Called 77.8% of time when present

- Phage (with cluster) where this start called: Ashes_60 (AZ5), BaileyBlu_59 (FP), Beaupre_59 (AZ5), Cappuccino_60 (AZ5), Donkey_60 (AZ5), Gambol_61 (AZ5), Halsey_60 (AZ5), Kalimba_60 (AZ5), LisoBros_63 (FP), Moss_60 (AZ5), Mysteryum_59 (AZ5), RockScotty_59 (AZ5), Sooty_60 (AZ5), SpecialK_60 (AZ5),

Start 19:

- Found in 4 of 38 (10.5%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Sue2_66 (AZ1),

Start 21:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KeAlii_65 (AZ1),

Start 22:

- Found in 1 of 38 (2.6%) of genes in pham
- Manual Annotations of this start: 1 of 36
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elfy_76 (FP),

Summary by clusters:

There are 5 clusters represented in this pham: FP, AZ1, AZ2, AZ4, AZ5,

Info for manual annotations of cluster AZ1:

- Start number 14 was manually annotated 3 times for cluster AZ1.
- Start number 15 was manually annotated 1 time for cluster AZ1.
- Start number 19 was manually annotated 1 time for cluster AZ1.
- Start number 21 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 16 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ4:

- Start number 11 was manually annotated 4 times for cluster AZ4.
- Start number 13 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 8 was manually annotated 4 times for cluster AZ5.
- Start number 17 was manually annotated 12 times for cluster AZ5.

Info for manual annotations of cluster FP:

- Start number 17 was manually annotated 2 times for cluster FP.
- Start number 22 was manually annotated 1 time for cluster FP.

Gene Information:

Gene: AceofSpades_65 Start: 42194, Stop: 42490, Start Num: 11

Candidate Starts for AceofSpades_65:

(Start: 11 @42194 has 4 MA's), (28, 42452), (34, 42485),

Gene: Ashes_60 Start: 38817, Stop: 39089, Start Num: 17

Candidate Starts for Ashes_60:

(Start: 8 @38760 has 4 MA's), (Start: 17 @38817 has 14 MA's),

Gene: BaileyBlu_59 Start: 39085, Stop: 39360, Start Num: 17

Candidate Starts for BaileyBlu_59:

(2, 38989), (3, 38992), (4, 39001), (7, 39028), (10, 39046), (Start: 17 @39085 has 14 MA's), (20, 39118),

Gene: Beaupre_59 Start: 38627, Stop: 38899, Start Num: 17

Candidate Starts for Beaupre_59:

(Start: 8 @38570 has 4 MA's), (Start: 17 @38627 has 14 MA's),

Gene: Cappuccino_60 Start: 38667, Stop: 38939, Start Num: 17

Candidate Starts for Cappuccino_60:

(5, 38586), (6, 38604), (Start: 8 @38610 has 4 MA's), (Start: 17 @38667 has 14 MA's), (25, 38817),

Gene: Crewmate_72 Start: 43229, Stop: 43537, Start Num: 14

Candidate Starts for Crewmate_72:

(1, 43046), (9, 43190), (Start: 14 @43229 has 3 MA's), (Start: 15 @43232 has 1 MA's), (Start: 19 @43268 has 1 MA's), (33, 43502), (35, 43532),

Gene: Donkey_60 Start: 38657, Stop: 38929, Start Num: 17

Candidate Starts for Donkey_60:

(5, 38576), (6, 38594), (Start: 8 @38600 has 4 MA's), (Start: 17 @38657 has 14 MA's), (25, 38807),

Gene: Elfy_76 Start: 43113, Stop: 43328, Start Num: 22

Candidate Starts for Elfy_76:

(Start: 22 @43113 has 1 MA's), (24, 43197), (26, 43245),

Gene: FiveHead_70 Start: 41853, Stop: 42158, Start Num: 11

Candidate Starts for FiveHead_70:

(Start: 11 @41853 has 4 MA's), (29, 42117), (34, 42153),

Gene: Gambol_61 Start: 38676, Stop: 38948, Start Num: 17

Candidate Starts for Gambol_61:

(5, 38595), (6, 38613), (Start: 8 @38619 has 4 MA's), (Start: 17 @38676 has 14 MA's), (25, 38826),

Gene: Giorgio_59 Start: 38553, Stop: 38882, Start Num: 8

Candidate Starts for Giorgio_59:

(Start: 8 @38553 has 4 MA's), (Start: 17 @38610 has 14 MA's),

Gene: Gumpizza_59 Start: 38509, Stop: 38838, Start Num: 8

Candidate Starts for Gumpizza_59:

(Start: 8 @38509 has 4 MA's), (Start: 17 @38566 has 14 MA's),

Gene: Halsey_60 Start: 38807, Stop: 39079, Start Num: 17

Candidate Starts for Halsey_60:

(Start: 8 @38750 has 4 MA's), (Start: 17 @38807 has 14 MA's),

Gene: IUFootball_68 Start: 44555, Stop: 44812, Start Num: 16
Candidate Starts for IUFootball_68:
(Start: 16 @44555 has 4 MA's), (27, 44768), (30, 44786), (31, 44807),

Gene: JasmineDragon_67 Start: 42320, Stop: 42616, Start Num: 13
Candidate Starts for JasmineDragon_67:
(Start: 13 @42320 has 3 MA's), (34, 42611),

Gene: JohnThicc_64 Start: 41852, Stop: 42160, Start Num: 11
Candidate Starts for JohnThicc_64:
(Start: 11 @41852 has 4 MA's), (34, 42155),

Gene: JuneStar_66 Start: 43398, Stop: 43697, Start Num: 15
Candidate Starts for JuneStar_66:
(Start: 14 @43395 has 3 MA's), (Start: 15 @43398 has 1 MA's), (30, 43635), (34, 43665), (35, 43692),

Gene: Kalimba_60 Start: 38654, Stop: 38926, Start Num: 17
Candidate Starts for Kalimba_60:
(5, 38573), (6, 38591), (Start: 8 @38597 has 4 MA's), (Start: 17 @38654 has 14 MA's), (25, 38804),

Gene: KeAlii_65 Start: 40879, Stop: 41094, Start Num: 21
Candidate Starts for KeAlii_65:
(18, 40861), (Start: 21 @40879 has 1 MA's), (32, 41089),

Gene: LadyAstra_65 Start: 41952, Stop: 42257, Start Num: 11
Candidate Starts for LadyAstra_65:
(Start: 11 @41952 has 4 MA's), (29, 42216), (34, 42252),

Gene: Liebe_67 Start: 44554, Stop: 44811, Start Num: 16
Candidate Starts for Liebe_67:
(Start: 16 @44554 has 4 MA's), (27, 44767), (30, 44785), (31, 44806),

Gene: LisoBros_63 Start: 43444, Stop: 43713, Start Num: 17
Candidate Starts for LisoBros_63:
(2, 43339), (4, 43351), (12, 43408), (Start: 17 @43444 has 14 MA's), (Start: 19 @43471 has 1 MA's),
(34, 43708),

Gene: MaGuCo_61 Start: 42675, Stop: 42932, Start Num: 16
Candidate Starts for MaGuCo_61:
(Start: 16 @42675 has 4 MA's), (30, 42906), (31, 42927),

Gene: Maureen_67 Start: 44553, Stop: 44810, Start Num: 16
Candidate Starts for Maureen_67:
(Start: 16 @44553 has 4 MA's), (27, 44766), (30, 44784), (31, 44805),

Gene: MiniMommy_67 Start: 42328, Stop: 42624, Start Num: 13
Candidate Starts for MiniMommy_67:
(Start: 13 @42328 has 3 MA's), (34, 42619),

Gene: Moss_60 Start: 38754, Stop: 39026, Start Num: 17
Candidate Starts for Moss_60:
(Start: 8 @38697 has 4 MA's), (Start: 17 @38754 has 14 MA's),

Gene: Mysterium_59 Start: 38595, Stop: 38867, Start Num: 17

Candidate Starts for Mysterium_59:

(Start: 8 @38538 has 4 MA's), (Start: 17 @38595 has 14 MA's),

Gene: ObiToo_72 Start: 42845, Stop: 43153, Start Num: 14

Candidate Starts for ObiToo_72:

(1, 42662), (9, 42806), (Start: 14 @42845 has 3 MA's), (Start: 15 @42848 has 1 MA's), (Start: 19 @42884 has 1 MA's), (33, 43118), (35, 43148),

Gene: Origami_64 Start: 41744, Stop: 42049, Start Num: 11

Candidate Starts for Origami_64:

(Start: 11 @41744 has 4 MA's), (29, 42008), (34, 42044),

Gene: RockScotty_59 Start: 38590, Stop: 38862, Start Num: 17

Candidate Starts for RockScotty_59:

(Start: 8 @38533 has 4 MA's), (Start: 17 @38590 has 14 MA's),

Gene: Sabourin_60 Start: 38598, Stop: 38927, Start Num: 8

Candidate Starts for Sabourin_60:

(5, 38574), (6, 38592), (Start: 8 @38598 has 4 MA's), (Start: 17 @38655 has 14 MA's), (25, 38805),

Gene: ShakeltOph_67 Start: 42320, Stop: 42616, Start Num: 13

Candidate Starts for ShakeltOph_67:

(Start: 13 @42320 has 3 MA's), (34, 42611),

Gene: Sooty_60 Start: 38669, Stop: 38941, Start Num: 17

Candidate Starts for Sooty_60:

(5, 38588), (6, 38606), (Start: 8 @38612 has 4 MA's), (Start: 17 @38669 has 14 MA's), (25, 38819),

Gene: SpecialK_60 Start: 38663, Stop: 38935, Start Num: 17

Candidate Starts for SpecialK_60:

(Start: 8 @38606 has 4 MA's), (Start: 17 @38663 has 14 MA's),

Gene: Stuu_60 Start: 38715, Stop: 39044, Start Num: 8

Candidate Starts for Stuu_60:

(Start: 8 @38715 has 4 MA's), (Start: 17 @38772 has 14 MA's),

Gene: Sue2_66 Start: 41273, Stop: 41494, Start Num: 19

Candidate Starts for Sue2_66:

(Start: 19 @41273 has 1 MA's), (23, 41324), (32, 41489),

Gene: VroomVroom_64 Start: 41876, Stop: 42163, Start Num: 11

Candidate Starts for VroomVroom_64:

(Start: 11 @41876 has 4 MA's), (34, 42158),

Gene: Yang_66 Start: 42085, Stop: 42387, Start Num: 14

Candidate Starts for Yang_66:

(Start: 14 @42085 has 3 MA's), (Start: 15 @42088 has 1 MA's), (30, 42325), (34, 42355), (35, 42382),