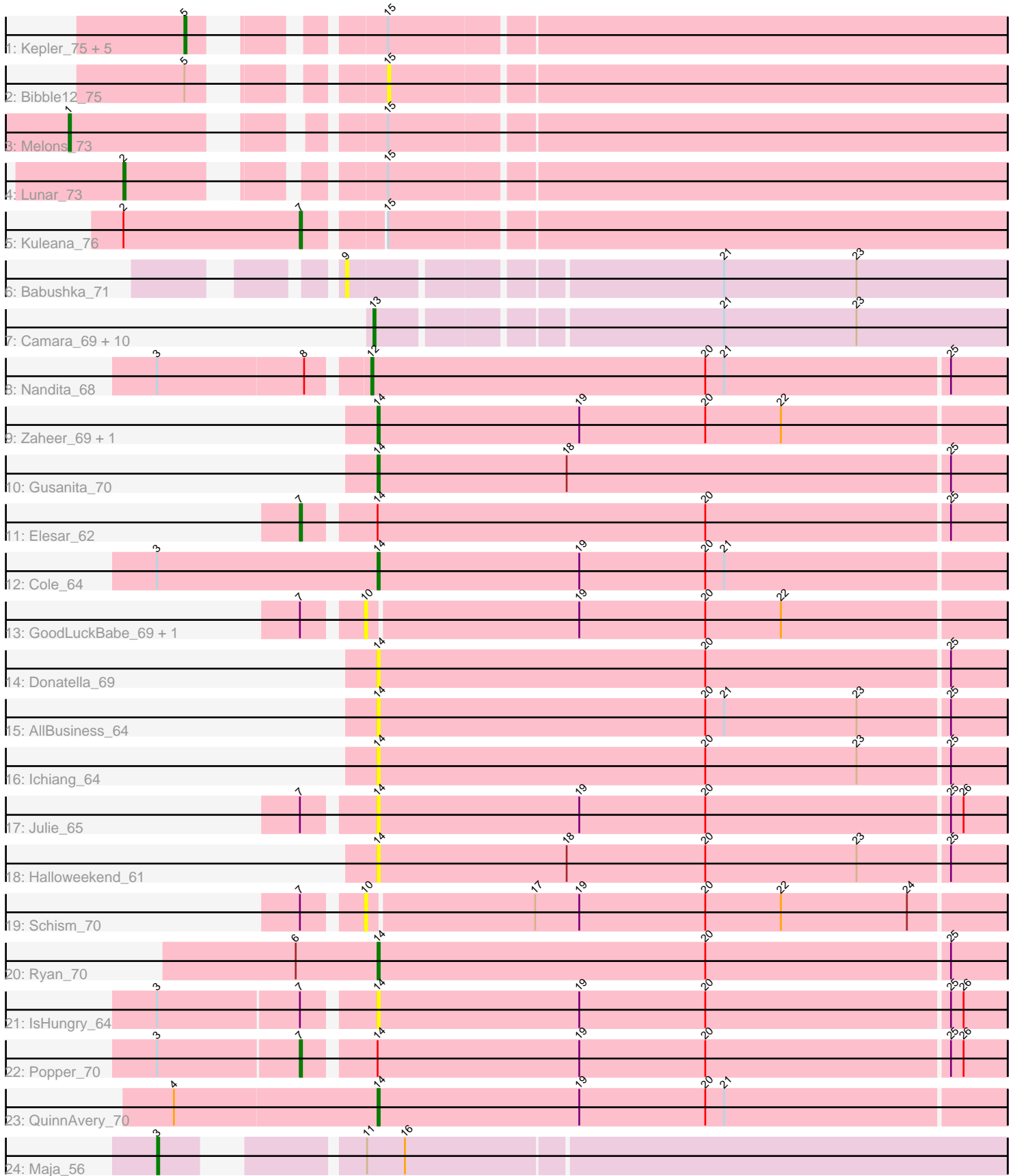


Pham 216323



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 216323 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216323 has 41 members, 19 are drafts.

Phages represented in each track:

- Track 1 : Kepler_75, Amelia_71, Coral_72, Cote_75, Polka_71, Daob_71
- Track 2 : Bibble12_75
- Track 3 : Melons_73
- Track 4 : Lunar_73
- Track 5 : Kuleana_76
- Track 6 : Babushka_71
- Track 7 : Camara_69, KHumphrey_70, RedFox_71, Atlantica_71, Glotell_71, PhluffyCoco_68, HamCheese_68, DanHam62_68, AmiCi24_68, Rattail_71, Juno112_69
- Track 8 : Nandita_68
- Track 9 : Zaheer_69, Lenoxika_66
- Track 10 : Gusanita_70
- Track 11 : Elesar_62
- Track 12 : Cole_64
- Track 13 : GoodLuckBabe_69, Kihatsu_68
- Track 14 : Donatella_69
- Track 15 : AllBusiness_64
- Track 16 : Ichiang_64
- Track 17 : Julie_65
- Track 18 : Halloweekend_61
- Track 19 : Schism_70
- Track 20 : Ryan_70
- Track 21 : IsHungry_64
- Track 22 : Popper_70
- Track 23 : QuinnAvery_70
- Track 24 : Maja_56

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amelia_71, Coral_72, Cote_75, Daob_71, Kepler_75, Polka_71,

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

- Bibble12_75,

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

- AllBusiness_64, AmiCi24_68, Atlantica_71, Babushka_71, Camara_69, Cole_64, DanHam62_68, Donatella_69, Elesar_62, Glotell_71, GoodLuckBabe_69, Gusanita_70, Halloweekend_61, HamCheese_68, Ichiang_64, IsHungry_64, Julie_65, Juno112_69, KHumphrey_70, Kihatsu_68, Kuleana_76, Lenoxika_66, Lunar_73, Maja_56, Melons_73, Nandita_68, PhluffyCoco_68, Popper_70, QuinnAvery_70, Rattail_71, RedFox_71, Ryan_70, Schism_70, Zaheer_69,

Summary by start number:

Start 1:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Melons_73 (AS2),

Start 2:

- Found in 2 of 41 (4.9%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lunar_73 (AS2),

Start 3:

- Found in 5 of 41 (12.2%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Maja_56 (FO),

Start 5:

- Found in 7 of 41 (17.1%) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Amelia_71 (AS2), Coral_72 (AS2), Cote_75 (AS2), Daob_71 (AS2), Kepler_75 (AS2), Polka_71 (AS2),

Start 7:

- Found in 8 of 41 (19.5%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 37.5% of time when present
- Phage (with cluster) where this start called: Elesar_62 (FF), Kuleana_76 (AS2), Popper_70 (FF),

Start 9:

- Found in 1 of 41 (2.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Babushka_71 (AS3),

Start 10:

- Found in 3 of 41 (7.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoodLuckBabe_69 (FF), Kihatsu_68 (FF), Schism_70 (FF),

Start 12:

- Found in 1 of 41 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nandita_68 (FF),

Start 13:

- Found in 11 of 41 (26.8%) of genes in pham
- Manual Annotations of this start: 4 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AmiCi24_68 (AS3), Atlantica_71 (AS3), Camara_69 (AS3), DanHam62_68 (AS3), Glotell_71 (AS3), HamCheese_68 (AS3), Juno112_69 (AS3), KHumphrey_70 (AS3), PhluffyCoco_68 (AS3), Rattail_71 (AS3), RedFox_71 (AS3),

Start 14:

- Found in 14 of 41 (34.1%) of genes in pham
- Manual Annotations of this start: 5 of 22
- Called 85.7% of time when present
- Phage (with cluster) where this start called: AllBusiness_64 (FF), Cole_64 (FF), Donatella_69 (FF), Gusanita_70 (FF), Halloweekend_61 (FF), Ichiang_64 (FF), IsHungry_64 (FF), Julie_65 (FF), Lenoxika_66 (FF), QuinnAvery_70 (FF), Ryan_70 (FF), Zaheer_69 (FF),

Start 15:

- Found in 10 of 41 (24.4%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Bible12_75 (AS2),

Summary by clusters:

There are 4 clusters represented in this pham: AS3, AS2, FF, FO,

Info for manual annotations of cluster AS2:

- Start number 1 was manually annotated 1 time for cluster AS2.
- Start number 2 was manually annotated 1 time for cluster AS2.
- Start number 5 was manually annotated 6 times for cluster AS2.
- Start number 7 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 13 was manually annotated 4 times for cluster AS3.

Info for manual annotations of cluster FF:

- Start number 7 was manually annotated 2 times for cluster FF.
- Start number 12 was manually annotated 1 time for cluster FF.
- Start number 14 was manually annotated 5 times for cluster FF.

Info for manual annotations of cluster FO:

•Start number 3 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: AllBusiness_64 Start: 43063, Stop: 43359, Start Num: 14

Candidate Starts for AllBusiness_64:

(Start: 14 @43063 has 5 MA's), (20, 43219), (21, 43228), (23, 43291), (25, 43333),

Gene: Amelia_71 Start: 37701, Stop: 38054, Start Num: 5

Candidate Starts for Amelia_71:

(Start: 5 @37701 has 6 MA's), (15, 37767),

Gene: AmiCi24_68 Start: 38101, Stop: 38388, Start Num: 13

Candidate Starts for AmiCi24_68:

(Start: 13 @38101 has 4 MA's), (21, 38254), (23, 38317),

Gene: Atlantica_71 Start: 38103, Stop: 38390, Start Num: 13

Candidate Starts for Atlantica_71:

(Start: 13 @38103 has 4 MA's), (21, 38256), (23, 38319),

Gene: Babushka_71 Start: 38003, Stop: 38302, Start Num: 9

Candidate Starts for Babushka_71:

(9, 38003), (21, 38168), (23, 38231),

Gene: Bible12_75 Start: 38337, Stop: 38624, Start Num: 15

Candidate Starts for Bible12_75:

(Start: 5 @38274 has 6 MA's), (15, 38337),

Gene: Camara_69 Start: 37993, Stop: 38280, Start Num: 13

Candidate Starts for Camara_69:

(Start: 13 @37993 has 4 MA's), (21, 38146), (23, 38209),

Gene: Cole_64 Start: 41483, Stop: 41779, Start Num: 14

Candidate Starts for Cole_64:

(Start: 3 @41378 has 1 MA's), (Start: 14 @41483 has 5 MA's), (19, 41579), (20, 41639), (21, 41648),

Gene: Coral_72 Start: 37893, Stop: 38243, Start Num: 5

Candidate Starts for Coral_72:

(Start: 5 @37893 has 6 MA's), (15, 37956),

Gene: Cote_75 Start: 38617, Stop: 38970, Start Num: 5

Candidate Starts for Cote_75:

(Start: 5 @38617 has 6 MA's), (15, 38683),

Gene: DanHam62_68 Start: 38102, Stop: 38389, Start Num: 13

Candidate Starts for DanHam62_68:

(Start: 13 @38102 has 4 MA's), (21, 38255), (23, 38318),

Gene: Daob_71 Start: 37543, Stop: 37893, Start Num: 5

Candidate Starts for Daob_71:
(Start: 5 @37543 has 6 MA's), (15, 37606),

Gene: Donatella_69 Start: 42522, Stop: 42818, Start Num: 14
Candidate Starts for Donatella_69:
(Start: 14 @42522 has 5 MA's), (20, 42678), (25, 42792),

Gene: Elesar_62 Start: 42571, Stop: 42897, Start Num: 7
Candidate Starts for Elesar_62:
(Start: 7 @42571 has 3 MA's), (Start: 14 @42601 has 5 MA's), (20, 42757), (25, 42871),

Gene: Glotell_71 Start: 38150, Stop: 38437, Start Num: 13
Candidate Starts for Glotell_71:
(Start: 13 @38150 has 4 MA's), (21, 38303), (23, 38366),

Gene: GoodLuckBabe_69 Start: 41904, Stop: 42203, Start Num: 10
Candidate Starts for GoodLuckBabe_69:
(Start: 7 @41880 has 3 MA's), (10, 41904), (19, 42003), (20, 42063), (22, 42099),

Gene: Gusanita_70 Start: 42391, Stop: 42687, Start Num: 14
Candidate Starts for Gusanita_70:
(Start: 14 @42391 has 5 MA's), (18, 42481), (25, 42661),

Gene: Halloweekend_61 Start: 41095, Stop: 41391, Start Num: 14
Candidate Starts for Halloweekend_61:
(Start: 14 @41095 has 5 MA's), (18, 41185), (20, 41251), (23, 41323), (25, 41365),

Gene: HamCheese_68 Start: 38089, Stop: 38376, Start Num: 13
Candidate Starts for HamCheese_68:
(Start: 13 @38089 has 4 MA's), (21, 38242), (23, 38305),

Gene: Ichiang_64 Start: 41204, Stop: 41500, Start Num: 14
Candidate Starts for Ichiang_64:
(Start: 14 @41204 has 5 MA's), (20, 41360), (23, 41432), (25, 41474),

Gene: IsHungry_64 Start: 40276, Stop: 40572, Start Num: 14
Candidate Starts for IsHungry_64:
(Start: 3 @40180 has 1 MA's), (Start: 7 @40246 has 3 MA's), (Start: 14 @40276 has 5 MA's), (19, 40372), (20, 40432), (25, 40546), (26, 40552),

Gene: Julie_65 Start: 41903, Stop: 42199, Start Num: 14
Candidate Starts for Julie_65:
(Start: 7 @41873 has 3 MA's), (Start: 14 @41903 has 5 MA's), (19, 41999), (20, 42059), (25, 42173), (26, 42179),

Gene: Juno112_69 Start: 38104, Stop: 38391, Start Num: 13
Candidate Starts for Juno112_69:
(Start: 13 @38104 has 4 MA's), (21, 38257), (23, 38320),

Gene: KHumphrey_70 Start: 37978, Stop: 38265, Start Num: 13
Candidate Starts for KHumphrey_70:
(Start: 13 @37978 has 4 MA's), (21, 38131), (23, 38194),

Gene: Kepler_75 Start: 38025, Stop: 38375, Start Num: 5

Candidate Starts for Kepler_75:

(Start: 5 @38025 has 6 MA's), (15, 38088),

Gene: Kihatsu_68 Start: 42884, Stop: 43183, Start Num: 10

Candidate Starts for Kihatsu_68:

(Start: 7 @42860 has 3 MA's), (10, 42884), (19, 42983), (20, 43043), (22, 43079),

Gene: Kuleana_76 Start: 38455, Stop: 38775, Start Num: 7

Candidate Starts for Kuleana_76:

(Start: 2 @38371 has 1 MA's), (Start: 7 @38455 has 3 MA's), (15, 38488),

Gene: Lenoxika_66 Start: 41766, Stop: 42062, Start Num: 14

Candidate Starts for Lenoxika_66:

(Start: 14 @41766 has 5 MA's), (19, 41862), (20, 41922), (22, 41958),

Gene: Lunar_73 Start: 37996, Stop: 38376, Start Num: 2

Candidate Starts for Lunar_73:

(Start: 2 @37996 has 1 MA's), (15, 38089),

Gene: Maja_56 Start: 36343, Stop: 36714, Start Num: 3

Candidate Starts for Maja_56:

(Start: 3 @36343 has 1 MA's), (11, 36415), (16, 36433),

Gene: Melons_73 Start: 37979, Stop: 38383, Start Num: 1

Candidate Starts for Melons_73:

(Start: 1 @37979 has 1 MA's), (15, 38096),

Gene: Nandita_68 Start: 42024, Stop: 42323, Start Num: 12

Candidate Starts for Nandita_68:

(Start: 3 @41931 has 1 MA's), (8, 42000), (Start: 12 @42024 has 1 MA's), (20, 42183), (21, 42192), (25, 42297),

Gene: PhluffyCoco_68 Start: 38203, Stop: 38490, Start Num: 13

Candidate Starts for PhluffyCoco_68:

(Start: 13 @38203 has 4 MA's), (21, 38356), (23, 38419),

Gene: Polka_71 Start: 37650, Stop: 38003, Start Num: 5

Candidate Starts for Polka_71:

(Start: 5 @37650 has 6 MA's), (15, 37716),

Gene: Popper_70 Start: 41441, Stop: 41767, Start Num: 7

Candidate Starts for Popper_70:

(Start: 3 @41375 has 1 MA's), (Start: 7 @41441 has 3 MA's), (Start: 14 @41471 has 5 MA's), (19, 41567), (20, 41627), (25, 41741), (26, 41747),

Gene: QuinnAvery_70 Start: 42826, Stop: 43122, Start Num: 14

Candidate Starts for QuinnAvery_70:

(4, 42730), (Start: 14 @42826 has 5 MA's), (19, 42922), (20, 42982), (21, 42991),

Gene: Rattail_71 Start: 38499, Stop: 38786, Start Num: 13

Candidate Starts for Rattail_71:

(Start: 13 @38499 has 4 MA's), (21, 38652), (23, 38715),

Gene: RedFox_71 Start: 38363, Stop: 38650, Start Num: 13

Candidate Starts for RedFox_71:

(Start: 13 @38363 has 4 MA's), (21, 38516), (23, 38579),

Gene: Ryan_70 Start: 42477, Stop: 42773, Start Num: 14

Candidate Starts for Ryan_70:

(6, 42438), (Start: 14 @42477 has 5 MA's), (20, 42633), (25, 42747),

Gene: Schism_70 Start: 42712, Stop: 43011, Start Num: 10

Candidate Starts for Schism_70:

(Start: 7 @42688 has 3 MA's), (10, 42712), (17, 42790), (19, 42811), (20, 42871), (22, 42907), (24, 42967),

Gene: Zaheer_69 Start: 42523, Stop: 42819, Start Num: 14

Candidate Starts for Zaheer_69:

(Start: 14 @42523 has 5 MA's), (19, 42619), (20, 42679), (22, 42715),