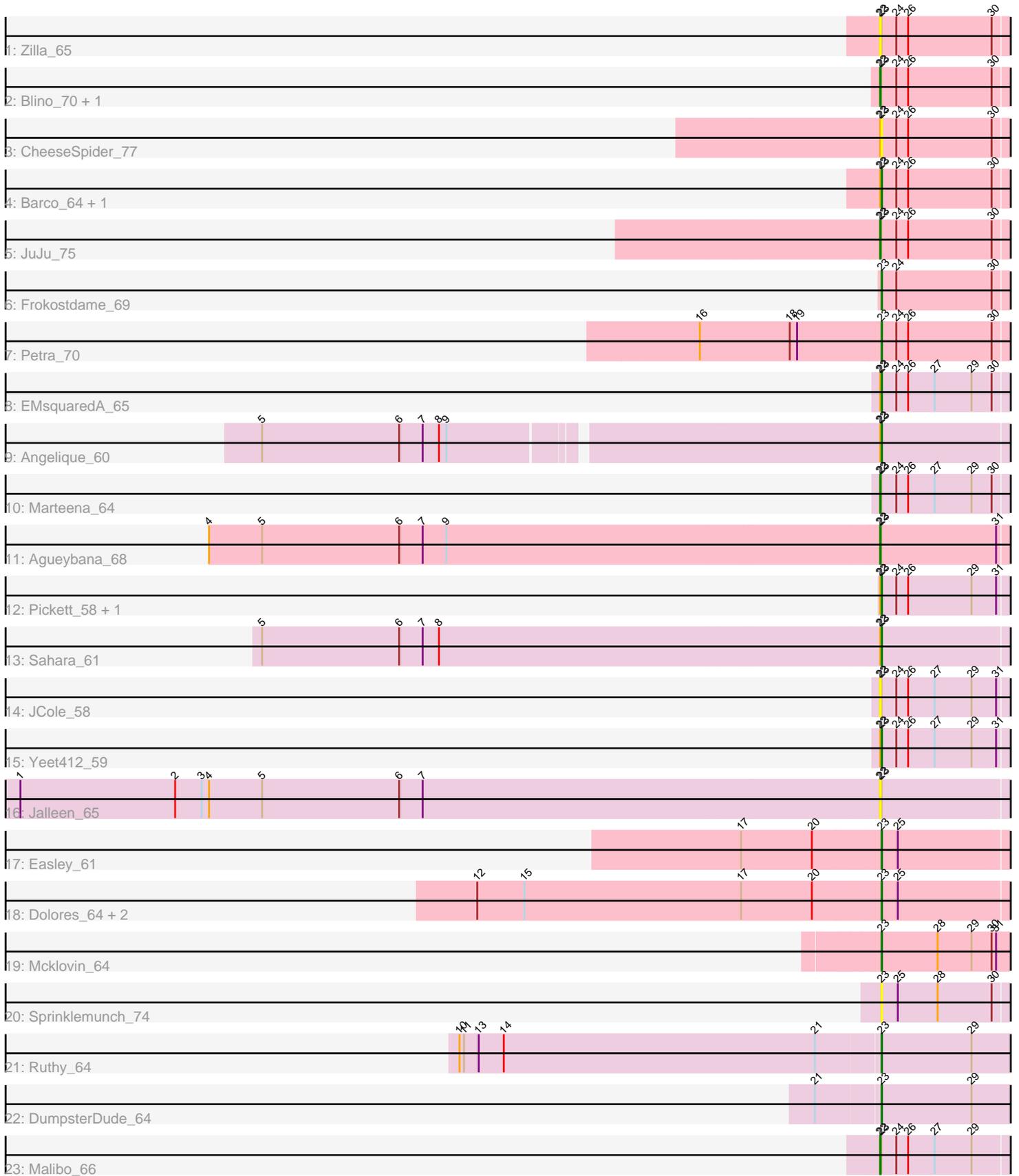


Pham 291435



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 291435 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291435 has 28 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Zilla_65
- Track 2 : Blino_70, CarolAnn_69
- Track 3 : CheeseSpider_77
- Track 4 : Barco_64, BlingBling_63
- Track 5 : JuJu_75
- Track 6 : Frokostdame_69
- Track 7 : Petra_70
- Track 8 : EMSquaredA_65
- Track 9 : Angelique_60
- Track 10 : Marteena_64
- Track 11 : Agueybana_68
- Track 12 : Pickett_58, RavenCo17_63
- Track 13 : Sahara_61
- Track 14 : JCole_58
- Track 15 : Yeet412_59
- Track 16 : Jalleen_65
- Track 17 : Easley_61
- Track 18 : Dolores_64, Sekhmet_63, WinkNick_64
- Track 19 : Mcklovin_64
- Track 20 : Sprinklemunch_74
- Track 21 : Ruthy_64
- Track 22 : DumpsterDude_64
- Track 23 : Malibo_66

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

The start number called the most often in the published annotations is 23, it was called in 17 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angelique_60, Barco_64, BlingBling_63, CheeseSpider_77, Dolores_64, DumpsterDude_64, EMSquaredA_65, Easley_61, Frokostdame_69, Mcklovin_64, Petra_70, Pickett_58, RavenCo17_63, Ruthy_64, Sahara_61, Sekhmet_63, Sprinklemunch_74, WinkNick_64, Yeet412_59,

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

- Agueybana_68, Blino_70, CarolAnn_69, JCole_58, Jalleen_65, JuJu_75, Malibo_66, Marteena_64, Zilla_65,

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

-

Summary by start number:

Start 22:

- Found in 18 of 28 (64.3%) of genes in pham
- Manual Annotations of this start: 6 of 23
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Agueybana_68 (CZ1), Blino_70 (CV), CarolAnn_69 (CV), JCole_58 (CZ2), Jalleen_65 (CZ2), JuJu_75 (CV), Malibo_66 (DW), Marteena_64 (CY1), Zilla_65 (CV),

Start 23:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 17 of 23
- Called 67.9% of time when present
- Phage (with cluster) where this start called: Angelique_60 (CY1), Barco_64 (CV), BlingBling_63 (CV), CheeseSpider_77 (CV), Dolores_64 (CZ4), DumpsterDude_64 (DW), EMSquaredA_65 (CY1), Easley_61 (CZ4), Frokostdame_69 (CV), Mcklovin_64 (CZ4), Petra_70 (CV), Pickett_58 (CZ2), RavenCo17_63 (CZ8), Ruthy_64 (DW), Sahara_61 (CZ2), Sekhmet_63 (CZ4), Sprinklemunch_74 (DW), WinkNick_64 (CZ4), Yeet412_59 (CZ2),

Summary by clusters:

There are 7 clusters represented in this pham: CY1, CZ2, CZ1, CZ8, CZ4, DW, CV,

Info for manual annotations of cluster CV:

- Start number 22 was manually annotated 3 times for cluster CV.
- Start number 23 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 22 was manually annotated 1 time for cluster CY1.
- Start number 23 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ1:

- Start number 22 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 23 was manually annotated 3 times for cluster CZ2.

Info for manual annotations of cluster CZ4:

- Start number 23 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster CZ8:

- Start number 23 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DW:

- Start number 22 was manually annotated 1 time for cluster DW.
- Start number 23 was manually annotated 2 times for cluster DW.

Gene Information:

Gene: Agueybana_68 Start: 46255, Stop: 46509, Start Num: 22

Candidate Starts for Agueybana_68:

(4, 44902), (5, 45010), (6, 45289), (7, 45337), (9, 45385), (Start: 22 @46255 has 6 MA's), (Start: 23 @46258 has 17 MA's), (31, 46489),

Gene: Angelique_60 Start: 44414, Stop: 44665, Start Num: 23

Candidate Starts for Angelique_60:

(5, 43217), (6, 43496), (7, 43544), (8, 43577), (9, 43592), (Start: 22 @44411 has 6 MA's), (Start: 23 @44414 has 17 MA's),

Gene: Barco_64 Start: 41934, Stop: 42185, Start Num: 23

Candidate Starts for Barco_64:

(Start: 22 @41931 has 6 MA's), (Start: 23 @41934 has 17 MA's), (24, 41964), (26, 41988), (30, 42156),

Gene: BlingBling_63 Start: 42816, Stop: 43067, Start Num: 23

Candidate Starts for BlingBling_63:

(Start: 22 @42813 has 6 MA's), (Start: 23 @42816 has 17 MA's), (24, 42846), (26, 42870), (30, 43038),

Gene: Blino_70 Start: 47962, Stop: 48219, Start Num: 22

Candidate Starts for Blino_70:

(Start: 22 @47962 has 6 MA's), (Start: 23 @47965 has 17 MA's), (24, 47995), (26, 48019), (30, 48187),

Gene: CarolAnn_69 Start: 47961, Stop: 48218, Start Num: 22

Candidate Starts for CarolAnn_69:

(Start: 22 @47961 has 6 MA's), (Start: 23 @47964 has 17 MA's), (24, 47994), (26, 48018), (30, 48186),

Gene: CheeseSpider_77 Start: 45511, Stop: 45762, Start Num: 23

Candidate Starts for CheeseSpider_77:

(Start: 22 @45508 has 6 MA's), (Start: 23 @45511 has 17 MA's), (24, 45541), (26, 45565), (30, 45733),

Gene: Dolores_64 Start: 41233, Stop: 41484, Start Num: 23

Candidate Starts for Dolores_64:

(12, 40417), (15, 40513), (17, 40954), (20, 41095), (Start: 23 @41233 has 17 MA's), (25, 41266),

Gene: DumpsterDude_64 Start: 48078, Stop: 48344, Start Num: 23

Candidate Starts for DumpsterDude_64:

(21, 47952), (Start: 23 @48078 has 17 MA's), (29, 48261),

Gene: EMSquaredA_65 Start: 44845, Stop: 45096, Start Num: 23

Candidate Starts for EMSquaredA_65:

(Start: 22 @44842 has 6 MA's), (Start: 23 @44845 has 17 MA's), (24, 44875), (26, 44899), (27, 44953), (29, 45028), (30, 45067),

Gene: Easley_61 Start: 40726, Stop: 40977, Start Num: 23

Candidate Starts for Easley_61:

(17, 40447), (20, 40588), (Start: 23 @40726 has 17 MA's), (25, 40759),

Gene: Frokostdame_69 Start: 44956, Stop: 45207, Start Num: 23

Candidate Starts for Frokostdame_69:

(Start: 23 @44956 has 17 MA's), (24, 44986), (30, 45178),

Gene: JCole_58 Start: 38576, Stop: 38830, Start Num: 22

Candidate Starts for JCole_58:

(Start: 22 @38576 has 6 MA's), (Start: 23 @38579 has 17 MA's), (24, 38609), (26, 38633), (27, 38687), (29, 38762), (31, 38810),

Gene: Jalleen_65 Start: 40948, Stop: 41202, Start Num: 22

Candidate Starts for Jalleen_65:

(1, 39211), (2, 39526), (3, 39580), (4, 39595), (5, 39703), (6, 39982), (7, 40030), (Start: 22 @40948 has 6 MA's), (Start: 23 @40951 has 17 MA's),

Gene: JuJu_75 Start: 47323, Stop: 47577, Start Num: 22

Candidate Starts for JuJu_75:

(Start: 22 @47323 has 6 MA's), (Start: 23 @47326 has 17 MA's), (24, 47356), (26, 47380), (30, 47548),

Gene: Malibo_66 Start: 44636, Stop: 44890, Start Num: 22

Candidate Starts for Malibo_66:

(Start: 22 @44636 has 6 MA's), (Start: 23 @44639 has 17 MA's), (24, 44669), (26, 44693), (27, 44747), (29, 44822),

Gene: Marteena_64 Start: 44842, Stop: 45096, Start Num: 22

Candidate Starts for Marteena_64:

(Start: 22 @44842 has 6 MA's), (Start: 23 @44845 has 17 MA's), (24, 44875), (26, 44899), (27, 44953), (29, 45028), (30, 45067),

Gene: Mcklovin_64 Start: 47822, Stop: 48076, Start Num: 23

Candidate Starts for Mcklovin_64:

(Start: 23 @47822 has 17 MA's), (28, 47936), (29, 48005), (30, 48044), (31, 48053),

Gene: Petra_70 Start: 43715, Stop: 43966, Start Num: 23

Candidate Starts for Petra_70:

(16, 43346), (18, 43529), (19, 43544), (Start: 23 @43715 has 17 MA's), (24, 43745), (26, 43769), (30, 43937),

Gene: Pickett_58 Start: 38510, Stop: 38761, Start Num: 23

Candidate Starts for Pickett_58:

(Start: 22 @38507 has 6 MA's), (Start: 23 @38510 has 17 MA's), (24, 38540), (26, 38564), (29, 38693), (31, 38741),

Gene: RavenCo17_63 Start: 45028, Stop: 45279, Start Num: 23

Candidate Starts for RavenCo17_63:

(Start: 22 @45025 has 6 MA's), (Start: 23 @45028 has 17 MA's), (24, 45058), (26, 45082), (29, 45211), (31, 45259),

Gene: Ruthy_64 Start: 46256, Stop: 46522, Start Num: 23

Candidate Starts for Ruthy_64:

(10, 45410), (11, 45419), (13, 45449), (14, 45500), (21, 46130), (Start: 23 @46256 has 17 MA's), (29, 46439),

Gene: Sahara_61 Start: 40045, Stop: 40296, Start Num: 23

Candidate Starts for Sahara_61:

(5, 38797), (6, 39076), (7, 39124), (8, 39157), (Start: 22 @40042 has 6 MA's), (Start: 23 @40045 has 17 MA's),

Gene: Sekhmet_63 Start: 41632, Stop: 41883, Start Num: 23

Candidate Starts for Sekhmet_63:

(12, 40816), (15, 40912), (17, 41353), (20, 41494), (Start: 23 @41632 has 17 MA's), (25, 41665),

Gene: Sprinklemunch_74 Start: 47844, Stop: 48095, Start Num: 23

Candidate Starts for Sprinklemunch_74:

(Start: 23 @47844 has 17 MA's), (25, 47877), (28, 47958), (30, 48066),

Gene: WinkNick_64 Start: 41156, Stop: 41407, Start Num: 23

Candidate Starts for WinkNick_64:

(12, 40340), (15, 40436), (17, 40877), (20, 41018), (Start: 23 @41156 has 17 MA's), (25, 41189),

Gene: Yeet412_59 Start: 40796, Stop: 41047, Start Num: 23

Candidate Starts for Yeet412_59:

(Start: 22 @40793 has 6 MA's), (Start: 23 @40796 has 17 MA's), (24, 40826), (26, 40850), (27, 40904), (29, 40979), (31, 41027),

Gene: Zilla_65 Start: 41948, Stop: 42202, Start Num: 22

Candidate Starts for Zilla_65:

(Start: 22 @41948 has 6 MA's), (Start: 23 @41951 has 17 MA's), (24, 41981), (26, 42005), (30, 42173),