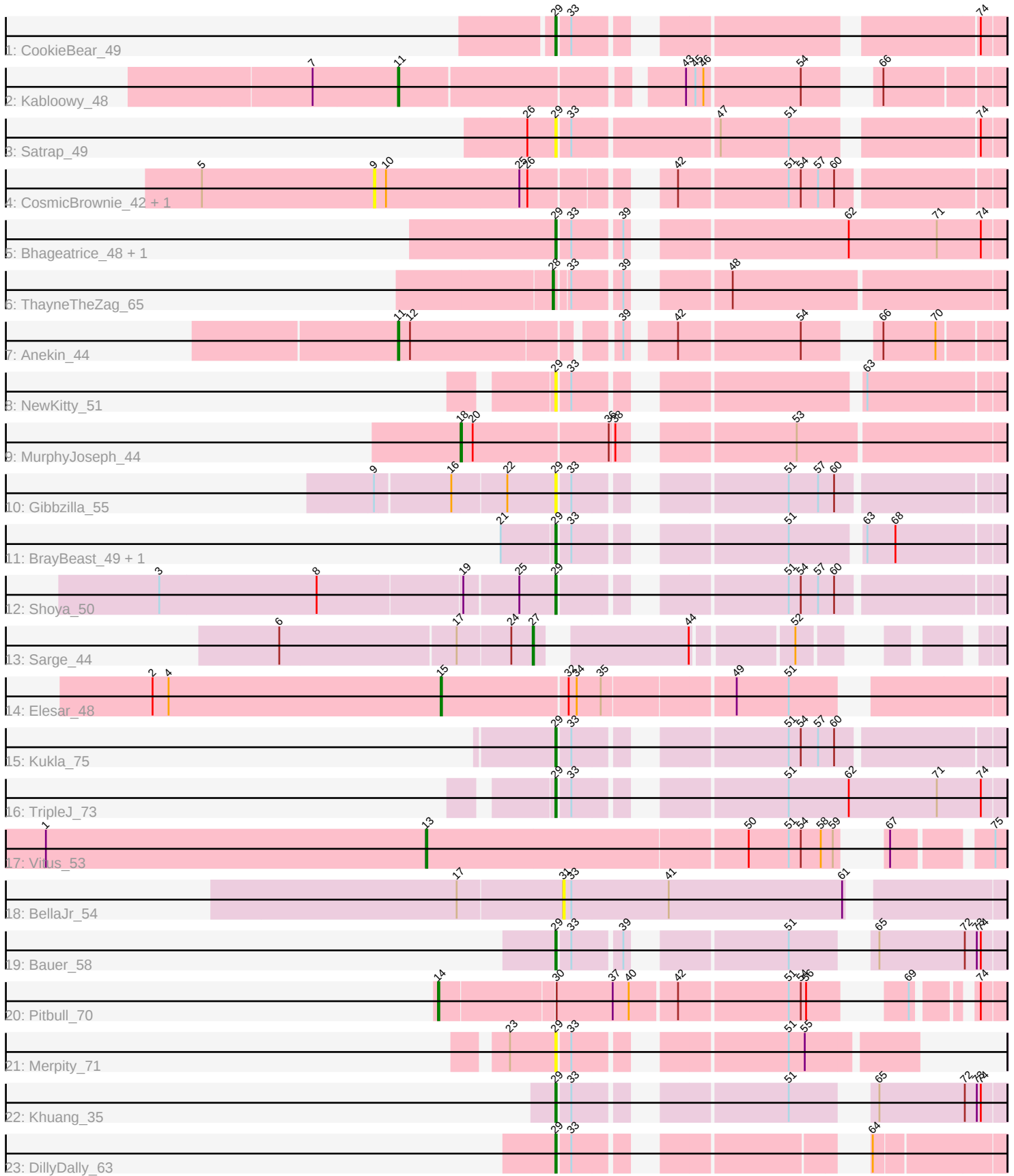


Pham 331165



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 331165 Report

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

Pham number 331165 has 26 members, 8 are drafts.

Phages represented in each track:

- Track 1 : CookieBear_49
- Track 2 : Kabloowy_48
- Track 3 : Satrap_49
- Track 4 : CosmicBrownie_42, GumGum_45
- Track 5 : Bhageatrice_48, Crescenzo_47
- Track 6 : ThayneTheZag_65
- Track 7 : Anekin_44
- Track 8 : NewKitty_51
- Track 9 : MurphyJoseph_44
- Track 10 : Gibbzilla_55
- Track 11 : BrayBeast_49, Raqqa_60
- Track 12 : Shoya_50
- Track 13 : Sarge_44
- Track 14 : Elesar_48
- Track 15 : Kukla_75
- Track 16 : TripleJ_73
- Track 17 : Vitus_53
- Track 18 : BellaJr_54
- Track 19 : Bauer_58
- Track 20 : Pitbull_70
- Track 21 : Merpity_71
- Track 22 : Khuang_35
- Track 23 : DillyDally_63

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

The start number called the most often in the published annotations is 29, it was called in 10 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bauer_58, Bhageatrice_48, BrayBeast_49, CookieBear_49, Crescenzo_47, DillyDally_63, Gibbzilla_55, Khuang_35, Kukla_75, Merpity_71, NewKitty_51, Raqqa_60, Satrap_49, Shoya_50, TripleJ_73,

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

-

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

- Anekin_44, BellaJr_54, CosmicBrownie_42, Elesar_48, GumGum_45, Kabloowy_48, MurphyJoseph_44, Pitbull_70, Sarge_44, ThayneTheZag_65, Vitus_53,

Summary by start number:

Start 9:

- Found in 3 of 26 (11.5%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: CosmicBrownie_42 (AY), GumGum_45 (AY),

Start 11:

- Found in 2 of 26 (7.7%) of genes in pham
- Manual Annotations of this start: 2 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anekin_44 (AY), Kabloowy_48 (AY),

Start 13:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vitus_53 (FL),

Start 14:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull_70 (FQ1),

Start 15:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elesar_48 (FF),

Start 18:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MurphyJoseph_44 (AY),

Start 27:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sarge_44 (FB),

Start 28:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThayneTheZag_65 (AY),

Start 29:

- Found in 15 of 26 (57.7%) of genes in pham
- Manual Annotations of this start: 10 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bauer_58 (FN), Bhageatrice_48 (AY), BrayBeast_49 (FB), CookieBear_49 (AY), Crescenzo_47 (AY), DillyDally_63 (singleton), Gibbzilla_55 (FB), Khuang_35 (FS), Kukla_75 (FJ), Merpity_71 (FQ1), NewKitty_51 (AY), Raqqa_60 (AY), Satrap_49 (AY), Shoya_50 (FB), TripleJ_73 (FJ),

Start 31:

- Found in 1 of 26 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BellaJr_54 (FN),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, FS, FB, FF, AY, FJ, FQ1, FL, FN,

Info for manual annotations of cluster AY:

- Start number 11 was manually annotated 2 times for cluster AY.
- Start number 18 was manually annotated 1 time for cluster AY.
- Start number 28 was manually annotated 1 time for cluster AY.
- Start number 29 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 27 was manually annotated 1 time for cluster FB.
- Start number 29 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FF:

- Start number 15 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FJ:

- Start number 29 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FL:

- Start number 13 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:

- Start number 29 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ1:

- Start number 14 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster FS:

- Start number 29 was manually annotated 1 time for cluster FS.

Gene Information:

Gene: Anekin_44 Start: 29811, Stop: 30191, Start Num: 11

Candidate Starts for Anekin_44:

(Start: 11 @29811 has 2 MA's), (12, 29820), (39, 29958), (42, 29985), (54, 30072), (66, 30108), (70, 30147),

Gene: Bauer_58 Start: 32955, Stop: 33227, Start Num: 29

Candidate Starts for Bauer_58:

(Start: 29 @32955 has 10 MA's), (33, 32964), (39, 32997), (51, 33093), (65, 33135), (72, 33198), (73, 33207), (74, 33210),

Gene: BellaJr_54 Start: 32861, Stop: 33166, Start Num: 31

Candidate Starts for BellaJr_54:

(17, 32783), (31, 32861), (33, 32867), (41, 32939), (61, 33068),

Gene: Bhageatrice_48 Start: 31728, Stop: 32027, Start Num: 29

Candidate Starts for Bhageatrice_48:

(Start: 29 @31728 has 10 MA's), (33, 31737), (39, 31770), (62, 31911), (71, 31977), (74, 32010),

Gene: BrayBeast_49 Start: 28984, Stop: 29268, Start Num: 29

Candidate Starts for BrayBeast_49:

(21, 28945), (Start: 29 @28984 has 10 MA's), (33, 28993), (51, 29122), (63, 29170), (68, 29191),

Gene: CookieBear_49 Start: 30179, Stop: 30457, Start Num: 29

Candidate Starts for CookieBear_49:

(Start: 29 @30179 has 10 MA's), (33, 30188), (74, 30440),

Gene: CosmicBrownie_42 Start: 28661, Stop: 29080, Start Num: 9

Candidate Starts for CosmicBrownie_42:

(5, 28532), (9, 28661), (10, 28670), (25, 28769), (26, 28775), (42, 28853), (51, 28931), (54, 28940), (57, 28952), (60, 28964),

Gene: Crescenzo_47 Start: 30815, Stop: 31114, Start Num: 29

Candidate Starts for Crescenzo_47:

(Start: 29 @30815 has 10 MA's), (33, 30824), (39, 30857), (62, 30998), (71, 31064), (74, 31097),

Gene: DillyDally_63 Start: 38118, Stop: 38381, Start Num: 29

Candidate Starts for DillyDally_63:

(Start: 29 @38118 has 10 MA's), (33, 38127), (64, 38289),

Gene: Elesar_48 Start: 36967, Stop: 37350, Start Num: 15

Candidate Starts for Elesar_48:

(2, 36751), (4, 36763), (Start: 15 @36967 has 1 MA's), (32, 37060), (34, 37066), (35, 37084), (49, 37177), (51, 37216),

Gene: Gibbzilla_55 Start: 29845, Stop: 30132, Start Num: 29

Candidate Starts for Gibbzilla_55:

(9, 29716), (16, 29770), (22, 29809), (Start: 29 @29845 has 10 MA's), (33, 29854), (51, 29983), (57, 30004), (60, 30016),

Gene: GumGum_45 Start: 29081, Stop: 29500, Start Num: 9

Candidate Starts for GumGum_45:

(5, 28952), (9, 29081), (10, 29090), (25, 29189), (26, 29195), (42, 29273), (51, 29351), (54, 29360), (57, 29372), (60, 29384),

Gene: Kabloowy_48 Start: 30785, Stop: 31174, Start Num: 11

Candidate Starts for Kabloowy_48:

(7, 30722), (Start: 11 @30785 has 2 MA's), (43, 30974), (45, 30980), (46, 30986), (54, 31055), (66, 31091),

Gene: Khuang_35 Start: 24689, Stop: 24417, Start Num: 29

Candidate Starts for Khuang_35:

(Start: 29 @24689 has 10 MA's), (33, 24680), (51, 24551), (65, 24509), (72, 24446), (73, 24437), (74, 24434),

Gene: Kukla_75 Start: 42658, Stop: 42945, Start Num: 29

Candidate Starts for Kukla_75:

(Start: 29 @42658 has 10 MA's), (33, 42667), (51, 42796), (54, 42805), (57, 42817), (60, 42829),

Gene: Merpity_71 Start: 37923, Stop: 38150, Start Num: 29

Candidate Starts for Merpity_71:

(23, 37890), (Start: 29 @37923 has 10 MA's), (33, 37932), (51, 38061), (55, 38073),

Gene: MurphyJoseph_44 Start: 28927, Stop: 29292, Start Num: 18

Candidate Starts for MurphyJoseph_44:

(Start: 18 @28927 has 1 MA's), (20, 28936), (36, 29032), (38, 29035), (53, 29143),

Gene: NewKitty_51 Start: 30242, Stop: 30526, Start Num: 29

Candidate Starts for NewKitty_51:

(Start: 29 @30242 has 10 MA's), (33, 30251), (63, 30428),

Gene: Pitbull_70 Start: 37588, Stop: 37938, Start Num: 14

Candidate Starts for Pitbull_70:

(Start: 14 @37588 has 1 MA's), (30, 37669), (37, 37711), (40, 37723), (42, 37756), (51, 37834), (54, 37843), (56, 37846), (69, 37888), (74, 37921),

Gene: Raqqa_60 Start: 33013, Stop: 33297, Start Num: 29

Candidate Starts for Raqqa_60:

(21, 32974), (Start: 29 @33013 has 10 MA's), (33, 33022), (51, 33151), (63, 33199), (68, 33220),

Gene: Sarge_44 Start: 27015, Stop: 27275, Start Num: 27

Candidate Starts for Sarge_44:

(6, 26832), (17, 26961), (24, 27000), (Start: 27 @27015 has 1 MA's), (44, 27111), (52, 27177),

Gene: Satrap_49 Start: 30579, Stop: 30881, Start Num: 29

Candidate Starts for Satrap_49:

(26, 30558), (Start: 29 @30579 has 10 MA's), (33, 30588), (47, 30690), (51, 30741), (74, 30864),

Gene: Shoya_50 Start: 29154, Stop: 29441, Start Num: 29

Candidate Starts for Shoya_50:

(3, 28866), (8, 28983), (19, 29088), (25, 29127), (Start: 29 @29154 has 10 MA's), (51, 29292), (54, 29301), (57, 29313), (60, 29325),

Gene: ThayneTheZag_65 Start: 34279, Stop: 34572, Start Num: 28

Candidate Starts for ThayneTheZag_65:

(Start: 28 @34279 has 1 MA's), (33, 34288), (39, 34321), (48, 34375),

Gene: TripleJ_73 Start: 41236, Stop: 41535, Start Num: 29

Candidate Starts for TripleJ_73:

(Start: 29 @41236 has 10 MA's), (33, 41245), (51, 41374), (62, 41419), (71, 41485), (74, 41518),

Gene: Vitus_53 Start: 37944, Stop: 38321, Start Num: 13

Candidate Starts for Vitus_53:

(1, 37659), (Start: 13 @37944 has 1 MA's), (50, 38178), (51, 38208), (54, 38217), (58, 38232), (59, 38241), (67, 38250), (75, 38313),