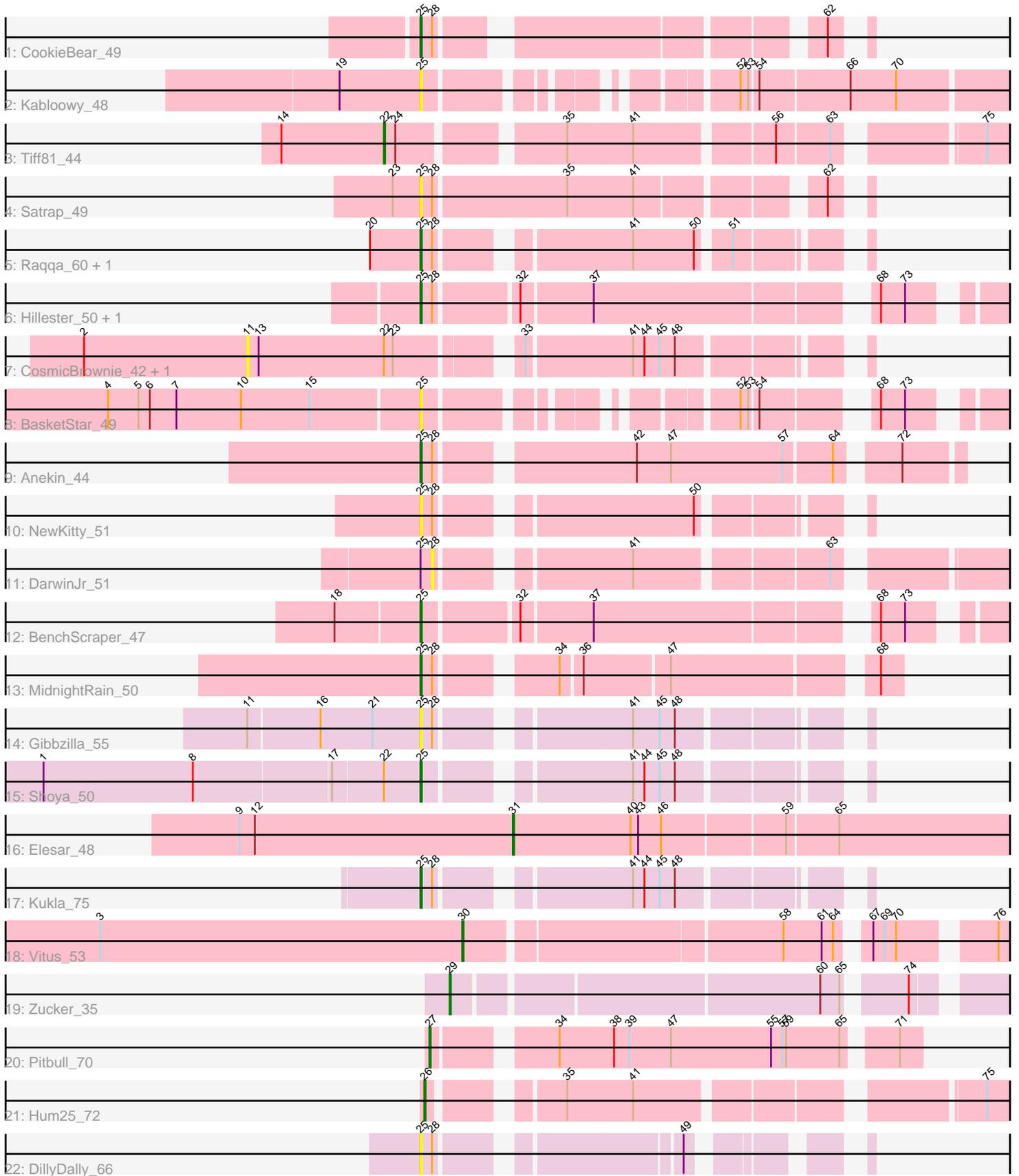


Pham 282427



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 282427 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282427 has 25 members, 10 are drafts.

Phages represented in each track:

- Track 1 : CookieBear_49
- Track 2 : Kabloowy_48
- Track 3 : Tiff81_44
- Track 4 : Satrap_49
- Track 5 : Raqqa_60, BrayBeast_49
- Track 6 : Hillester_50, RadFad_50
- Track 7 : CosmicBrownie_42, GumGum_45
- Track 8 : BasketStar_49
- Track 9 : Anekin_44
- Track 10 : NewKitty_51
- Track 11 : DarwinJr_51
- Track 12 : BenchScraper_47
- Track 13 : MidnightRain_50
- Track 14 : Gibbzilla_55
- Track 15 : Shoya_50
- Track 16 : Elesar_48
- Track 17 : Kukla_75
- Track 18 : Vitus_53
- Track 19 : Zucker_35
- Track 20 : Pitbull_70
- Track 21 : Hum25_72
- Track 22 : DillyDally_66

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

The start number called the most often in the published annotations is 25, it was called in 9 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anekin_44, BasketStar_49, BenchScraper_47, BrayBeast_49, CookieBear_49, DillyDally_66, Gibbzilla_55, Hillester_50, Kabloowy_48, Kukla_75, MidnightRain_50, NewKitty_51, RadFad_50, Raqqa_60, Satrap_49, Shoya_50,

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

- DarwinJr_51,

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

- CosmicBrownie_42, Elesar_48, GumGum_45, Hum25_72, Pitbull_70, Tiff81_44, Vitus_53, Zucker_35,

Summary by start number:

Start 11:

- Found in 3 of 25 (12.0%) 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 22:

- Found in 4 of 25 (16.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Tiff81_44 (AY),

Start 25:

- Found in 17 of 25 (68.0%) of genes in pham
- Manual Annotations of this start: 9 of 15
- Called 94.1% of time when present
- Phage (with cluster) where this start called: Anekin_44 (AY), BasketStar_49 (AY), BenchScraper_47 (AY), BrayBeast_49 (FB), CookieBear_49 (AY), DillyDally_66 (singleton), Gibbzilla_55 (FB), Hillester_50 (AY), Kabloowy_48 (AY), Kukla_75 (FJ), MidnightRain_50 (AY), NewKitty_51 (AY), RadFad_50 (AY), Raqqa_60 (AY), Satrap_49 (AY), Shoya_50 (FB),

Start 26:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25_72 (FQ),

Start 27:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull_70 (FQ),

Start 28:

- Found in 13 of 25 (52.0%) of genes in pham
- No Manual Annotations of this start.
- Called 7.7% of time when present
- Phage (with cluster) where this start called: DarwinJr_51 (AY),

Start 29:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Zucker_35 (FN),

Start 30:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vitus_53 (FL),

Start 31:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elesar_48 (FF),

Summary by clusters:

There are 8 clusters represented in this pham: FQ, singleton, FB, FF, AY, FJ, FL, FN,

Info for manual annotations of cluster AY:

- Start number 22 was manually annotated 1 time for cluster AY.
- Start number 25 was manually annotated 6 times for cluster AY.

Info for manual annotations of cluster FB:

- Start number 25 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FF:

- Start number 31 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FJ:

- Start number 25 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FL:

- Start number 30 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 FQ:

- Start number 26 was manually annotated 1 time for cluster FQ.
- Start number 27 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Anekin_44 Start: 29811, Stop: 30191, Start Num: 25

Candidate Starts for Anekin_44:

(Start: 25 @29811 has 9 MA's), (28, 29820), (42, 29958), (47, 29985), (57, 30072), (64, 30108), (72, 30147),

Gene: BasketStar_49 Start: 30508, Stop: 30852, Start Num: 25

Candidate Starts for BasketStar_49:

(4, 30265), (5, 30289), (6, 30298), (7, 30319), (10, 30370), (15, 30424), (Start: 25 @30508 has 9 MA's), (52, 30697), (53, 30703), (54, 30709), (68, 30778), (73, 30796),

Gene: BenchScraper_47 Start: 29609, Stop: 30001, Start Num: 25

Candidate Starts for BenchScraper_47:

(18, 29546), (Start: 25 @29609 has 9 MA's), (32, 29678), (37, 29732), (68, 29927), (73, 29945),

Gene: BrayBeast_49 Start: 28984, Stop: 29268, Start Num: 25

Candidate Starts for BrayBeast_49:

(20, 28945), (Start: 25 @28984 has 9 MA's), (28, 28993), (41, 29122), (50, 29170), (51, 29191),

Gene: CookieBear_49 Start: 30179, Stop: 30457, Start Num: 25

Candidate Starts for CookieBear_49:

(Start: 25 @30179 has 9 MA's), (28, 30188), (62, 30440),

Gene: CosmicBrownie_42 Start: 28661, Stop: 29080, Start Num: 11

Candidate Starts for CosmicBrownie_42:

(2, 28532), (11, 28661), (13, 28670), (Start: 22 @28769 has 1 MA's), (23, 28775), (33, 28853), (41, 28931), (44, 28940), (45, 28952), (48, 28964),

Gene: DarwinJr_51 Start: 31100, Stop: 31480, Start Num: 28

Candidate Starts for DarwinJr_51:

(Start: 25 @31091 has 9 MA's), (28, 31100), (41, 31229), (63, 31367),

Gene: DillyDally_66 Start: 38118, Stop: 38381, Start Num: 25

Candidate Starts for DillyDally_66:

(Start: 25 @38118 has 9 MA's), (28, 38127), (49, 38289),

Gene: Elesar_48 Start: 36967, Stop: 37350, Start Num: 31

Candidate Starts for Elesar_48:

(9, 36751), (12, 36763), (Start: 31 @36967 has 1 MA's), (40, 37060), (43, 37066), (46, 37084), (59, 37177), (65, 37216),

Gene: Gibbzilla_55 Start: 29845, Stop: 30132, Start Num: 25

Candidate Starts for Gibbzilla_55:

(11, 29716), (16, 29770), (21, 29809), (Start: 25 @29845 has 9 MA's), (28, 29854), (41, 29983), (45, 30004), (48, 30016),

Gene: GumGum_45 Start: 29081, Stop: 29500, Start Num: 11

Candidate Starts for GumGum_45:

(2, 28952), (11, 29081), (13, 29090), (Start: 22 @29189 has 1 MA's), (23, 29195), (33, 29273), (41, 29351), (44, 29360), (45, 29372), (48, 29384),

Gene: Hillester_50 Start: 30882, Stop: 31274, Start Num: 25

Candidate Starts for Hillester_50:

(Start: 25 @30882 has 9 MA's), (28, 30891), (32, 30951), (37, 31005), (68, 31200), (73, 31218),

Gene: Hum25_72 Start: 38173, Stop: 38556, Start Num: 26

Candidate Starts for Hum25_72:

(Start: 26 @38173 has 1 MA's), (35, 38254), (41, 38305), (75, 38539),

Gene: Kabloowy_48 Start: 30785, Stop: 31174, Start Num: 25

Candidate Starts for Kabloowy_48:

(19, 30722), (Start: 25 @30785 has 9 MA's), (52, 30974), (53, 30980), (54, 30986), (66, 31055), (70, 31091),

Gene: Kukla_75 Start: 42658, Stop: 42945, Start Num: 25

Candidate Starts for Kukla_75:

(Start: 25 @42658 has 9 MA's), (28, 42667), (41, 42796), (44, 42805), (45, 42817), (48, 42829),

Gene: MidnightRain_50 Start: 31295, Stop: 31621, Start Num: 25

Candidate Starts for MidnightRain_50:

(Start: 25 @31295 has 9 MA's), (28, 31304), (34, 31382), (36, 31397), (47, 31460), (68, 31604),

Gene: NewKitty_51 Start: 30242, Stop: 30526, Start Num: 25

Candidate Starts for NewKitty_51:

(Start: 25 @30242 has 9 MA's), (28, 30251), (50, 30428),

Gene: Pitbull_70 Start: 37588, Stop: 37938, Start Num: 27

Candidate Starts for Pitbull_70:

(Start: 27 @37588 has 1 MA's), (34, 37669), (38, 37711), (39, 37723), (47, 37756), (55, 37834), (57, 37843), (59, 37846), (65, 37888), (71, 37921),

Gene: RadFad_50 Start: 30882, Stop: 31274, Start Num: 25

Candidate Starts for RadFad_50:

(Start: 25 @30882 has 9 MA's), (28, 30891), (32, 30951), (37, 31005), (68, 31200), (73, 31218),

Gene: Raqqa_60 Start: 33013, Stop: 33297, Start Num: 25

Candidate Starts for Raqqa_60:

(20, 32974), (Start: 25 @33013 has 9 MA's), (28, 33022), (41, 33151), (50, 33199), (51, 33220),

Gene: Satrap_49 Start: 30579, Stop: 30881, Start Num: 25

Candidate Starts for Satrap_49:

(23, 30558), (Start: 25 @30579 has 9 MA's), (28, 30588), (35, 30690), (41, 30741), (62, 30864),

Gene: Shoya_50 Start: 29154, Stop: 29441, Start Num: 25

Candidate Starts for Shoya_50:

(1, 28866), (8, 28983), (17, 29088), (Start: 22 @29127 has 1 MA's), (Start: 25 @29154 has 9 MA's), (41, 29292), (44, 29301), (45, 29313), (48, 29325),

Gene: Tiff81_44 Start: 28183, Stop: 28605, Start Num: 22

Candidate Starts for Tiff81_44:

(14, 28102), (Start: 22 @28183 has 1 MA's), (24, 28192), (35, 28303), (41, 28354), (56, 28453), (63, 28492), (75, 28588),

Gene: Vitus_53 Start: 37944, Stop: 38321, Start Num: 30

Candidate Starts for Vitus_53:

(3, 37659), (Start: 30 @37944 has 1 MA's), (58, 38178), (61, 38208), (64, 38217), (67, 38232), (69, 38241), (70, 38250), (76, 38313),

Gene: Zucker_35 Start: 27460, Stop: 27846, Start Num: 29

Candidate Starts for Zucker_35:

(Start: 29 @27460 has 1 MA's), (60, 27733), (65, 27748), (74, 27787),